

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM 10-K

(Mark One)

☒ ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES
EXCHANGE ACT OF 1934
For the Fiscal Year Ended December 31, 2019

or

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES
EXCHANGE ACT OF 1934
For the transition period from to

Commission file number:
1-6523

Exact name of registrant as specified in its charter:

Bank of America Corporation

State or other jurisdiction of incorporation or organization:
Delaware

IRS Employer Identification No.:
56-0906609

Address of principal executive offices:
Bank of America Corporate Center
100 N. Tryon Street
Charlotte, North Carolina 28255

Registrant's telephone number, including area code:
(704) 386-5681

Securities registered pursuant to section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.01 per share	BAC	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of Floating Rate Non-Cumulative Preferred Stock, Series E	BAC PrE	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 6.200% Non-Cumulative Preferred Stock, Series CC	BAC PrC	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 6.000% Non-Cumulative Preferred Stock, Series EE	BAC PrA	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 6.000% Non-Cumulative Preferred Stock, Series GG	BAC PrB	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 5.875% Non-Cumulative Preferred Stock, Series HH	BAC PrK	New York Stock Exchange
7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L	BAC PrL	New York Stock Exchange
Depositary Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 1	BML PrG	New York Stock Exchange

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Depository Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 2	BML PrH	New York Stock Exchange
Depository Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 4	BML PrJ	New York Stock Exchange
Depository Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 5	BML PrL	New York Stock Exchange
Floating Rate Preferred Hybrid Income Term Securities of BAC Capital Trust XIII (and the guarantee related thereto)	BAC/PF	New York Stock Exchange
5.63% Fixed to Floating Rate Preferred Hybrid Income Term Securities of BAC Capital Trust XIV (and the guarantee related thereto)	BAC/PG	New York Stock Exchange
Income Capital Obligation Notes initially due December 15, 2066 of Bank of America Corporation	MER PrK	New York Stock Exchange
Senior Medium-Term Notes, Series A, Step Up Callable Notes, due November 28, 2031 of BofA Finance LLC (and the guarantee of the Registrant with respect thereto)	BAC/31B	New York Stock Exchange
Depository Shares, each representing a 1/1,000th interest in a share of 5.375% Non-Cumulative Preferred Stock, Series KK	BAC PrM	New York Stock Exchange
Depository Shares, each representing a 1/1,000th interest in a share of 5.000% Non-Cumulative Preferred Stock, Series LL	BAC PrN	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes ☐ No ☒

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes ☐ No ☒

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐
Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes ☐ No ☒

As of June 30, 2019, the aggregate market value of the registrant's common stock ("Common Stock") held by non-affiliates was approximately \$270,935,450,750. At February 18, 2020, there were 8,728,530,308 shares of Common Stock outstanding.

Documents incorporated by reference: Portions of the definitive proxy statement relating to the registrant's 2020 annual meeting of stockholders are incorporated by reference in this Form 10-K in response to Items 10, 11, 12, 13 and 14 of Part III.

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Part I

Bank of America Corporation and Subsidiaries

Item 1. Business

Bank of America Corporation is a Delaware corporation, a bank holding company (BHC) and a financial holding company. When used in this report, "the Corporation," "we," "us" and "our" may refer to Bank of America Corporation individually, Bank of America Corporation and its subsidiaries, or certain of Bank of America Corporation's subsidiaries or affiliates. As part of our efforts to streamline the Corporation's organizational structure and reduce complexity and costs, the Corporation has reduced and intends to continue to reduce the number of its corporate subsidiaries, including through intercompany mergers.

Bank of America is one of the world's largest financial institutions, serving individual consumers, small- and middle-market businesses, institutional investors, large corporations and governments with a full range of banking, investing, asset management and other financial and risk management products and services. Our principal executive offices are located in the Bank of America Corporate Center, 100 North Tryon Street, Charlotte, North Carolina 28255.

Bank of America's website is www.bankofamerica.com and the Investor Relations portion of our website is <http://investor.bankofamerica.com>. We use our website to distribute company information, including as a means of disclosing material, non-public information and for complying with our disclosure obligations under Regulation FD. We routinely post and make accessible financial and other information regarding the Corporation on our website. Accordingly, investors should monitor the Investor Relations portion of our website, in addition to our press releases, U.S. Securities and Exchange Commission (SEC) filings, public conference calls and webcasts. Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (Exchange Act) are available on the Investor Relations portion of our website under the heading Financial Information (accessible by clicking on the SEC Filings link) as soon as reasonably practicable after we electronically file such reports with, or furnish them to, the SEC and at the SEC's website, www.sec.gov. Notwithstanding the foregoing, the information contained on our website as referenced in this paragraph is not incorporated by reference into this Annual Report on Form 10-K. Also, we make available on the Investor Relations portion of our website under the heading Corporate Governance: (i) our Code of Conduct; (ii) our Corporate Governance Guidelines (accessible by clicking on the Governance Highlights link); and (iii) the charter of each active committee of our Board of Directors (the Board) (accessible by clicking on the committee names under the Committee Composition link). We also intend to disclose any amendments to our Code of Conduct and waivers of our Code of Conduct required to be disclosed by the rules of the SEC and the New York Stock Exchange on the Investor Relations portion of our website. All of these corporate governance materials are also available free of charge in print to shareholders who request them in writing to: Bank of America Corporation, Attention: Office of the Corporate Secretary, Bank of America Corporate Center, 100 North Tryon Street, NC1-007-56-06, Charlotte, North Carolina 28255.

Segments

Through our banking and various nonbank subsidiaries throughout the U.S. and in international markets, we provide a diversified range of banking and nonbank financial services and products through four business segments: *Consumer Banking*, *Global*

Wealth & Investment Management (GWIM), *Global Banking* and *Global Markets*, with the remaining operations recorded in *All Other*. Additional information related to our business segments and the products and services they provide is included in the information set forth on pages 32 through 41 of Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations (MD&A) and *Note 24 – Business Segment Information* to the Consolidated Financial Statements.

Competition

We operate in a highly competitive environment. Our competitors include banks, thrifts, credit unions, investment banking firms, investment advisory firms, brokerage firms, investment companies, insurance companies, mortgage banking companies, credit card issuers, mutual fund companies, hedge funds, private equity firms, and e-commerce and other internet-based companies. We compete with some of these competitors globally and with others on a regional or product specific basis.

Competition is based on a number of factors including, among others, customer service, quality and range of products and services offered, price, reputation, interest rates on loans and deposits, lending limits and customer convenience. Our ability to continue to compete effectively also depends in large part on our ability to attract new employees and retain and motivate our existing employees, while managing compensation and other costs.

Employees

At December 31, 2019, we had approximately 208,000 employees. None of our domestic employees are subject to a collective bargaining agreement. Management considers our employee relations to be good.

Government Supervision and Regulation

The following discussion describes, among other things, elements of an extensive regulatory framework applicable to BHCs, financial holding companies, banks and broker-dealers, including specific information about Bank of America.

We are subject to an extensive regulatory framework applicable to BHCs, financial holding companies and banks and other financial services entities. U.S. federal regulation of banks, BHCs and financial holding companies is intended primarily for the protection of depositors and the Deposit Insurance Fund (DIF) rather than for the protection of shareholders and creditors.

As a registered financial holding company and BHC, the Corporation is subject to the supervision of, and regular inspection by, the Board of Governors of the Federal Reserve System (Federal Reserve). Our U.S. bank subsidiaries (the Banks), organized as national banking associations, are subject to regulation, supervision and examination by the Office of the Comptroller of the Currency (OCC), the Federal Deposit Insurance Corporation (FDIC) and the Federal Reserve. U.S. financial holding companies, and the companies under their control, are permitted to engage in activities considered "financial in nature" as defined by the Gramm-Leach-Bliley Act and related Federal Reserve interpretations. The Corporation's status as a financial holding company is conditioned upon maintaining certain eligibility requirements for both the Corporation and its U.S. depository institution subsidiaries, including minimum capital ratios, supervisory ratings and, in the case of the depository institutions, at least satisfactory Community Reinvestment Act ratings. Failure to be an eligible financial holding company could result in the

Federal Reserve limiting Bank of America's activities, including potential acquisitions.

The scope of the laws and regulations and the intensity of the supervision to which we are subject have increased over the past several years, beginning with the response to the financial crisis, as well as other factors such as technological and market changes. In addition, the banking and financial services sector is subject to substantial regulatory enforcement and fines. Many of these changes have occurred as a result of the 2010 Dodd-Frank Wall Street Reform and Consumer Protection Act (the Financial Reform Act). We cannot assess whether there will be any additional major changes in the regulatory environment and expect that our business will remain subject to continuing and extensive regulation and supervision.

We are also subject to various other laws and regulations, as well as supervision and examination by other regulatory agencies, all of which directly or indirectly affect our operations and management and our ability to make distributions to shareholders. For instance, our broker-dealer subsidiaries are subject to both U.S. and international regulation, including supervision by the SEC, Financial Industry Regulatory Authority and New York Stock Exchange, among others; our commodities businesses in the U.S. are subject to regulation by and supervision of the U.S. Commodity Futures Trading Commission (CFTC); our U.S. derivatives activity is subject to regulation and supervision of the CFTC, National Futures Association and SEC, and in the case of the Banks, certain banking regulators; our insurance activities are subject to licensing and regulation by state insurance regulatory agencies; and our consumer financial products and services are regulated by the Consumer Financial Protection Bureau (CFPB).

Our non-U.S. businesses are also subject to extensive regulation by various non-U.S. regulators, including governments, securities exchanges, prudential regulators, central banks and other regulatory bodies, in the jurisdictions in which those businesses operate. For example, our financial services operations in the United Kingdom (U.K.), Ireland and France are subject to regulation by the Prudential Regulatory Authority and Financial Conduct Authority (FCA), the European Central Bank and Central Bank of Ireland, and the Autorité de Contrôle Prudentiel et de Résolution and Autorité des Marchés Financiers, respectively.

Source of Strength

Under the Financial Reform Act and Federal Reserve policy, BHCs are expected to act as a source of financial strength to each subsidiary bank and to commit resources to support each such subsidiary. Similarly, under the cross-guarantee provisions of the Federal Deposit Insurance Corporation Improvement Act of 1991 (FDICIA), in the event of a loss suffered or anticipated by the FDIC, either as a result of default of a bank subsidiary or related to FDIC assistance provided to such a subsidiary in danger of default, the affiliate banks of such a subsidiary may be assessed for the FDIC's loss, subject to certain exceptions.

Transactions with Affiliates

Pursuant to Section 23A and 23B of the Federal Reserve Act, as implemented by the Federal Reserve's Regulation W, the Banks are subject to restrictions that limit certain types of transactions between the Banks and their nonbank affiliates. In general, U.S. banks are subject to quantitative and qualitative limits on extensions of credit, purchases of assets and certain other transactions involving its nonbank affiliates. Additionally, transactions between U.S. banks and their nonbank affiliates are required to be on arm's length terms and must be consistent with standards of safety and soundness.

Deposit Insurance

Deposits placed at U.S. domiciled banks are insured by the FDIC, subject to limits and conditions of applicable law and the FDIC's regulations. Pursuant to the Financial Reform Act, FDIC insurance coverage limits are \$250,000 per customer. All insured depository institutions are required to pay assessments to the FDIC in order to fund the DIF.

The FDIC is required to maintain at least a designated minimum ratio of the DIF to insured deposits in the U.S. The FDIC adopted regulations that establish a long-term target DIF ratio of greater than two percent. As of the date of this report, the DIF ratio is below this required target and the FDIC has adopted a restoration plan that may result in increased deposit insurance assessments. Deposit insurance assessment rates are subject to change by the FDIC and will be impacted by the overall economy and the stability of the banking industry as a whole. For more information regarding deposit insurance, see Item 1A. Risk Factors – Regulatory, Compliance and Legal on page 14.

Capital, Liquidity and Operational Requirements

As a financial holding company, we and our bank subsidiaries are subject to the regulatory capital and liquidity guidelines issued by the Federal Reserve and other U.S. banking regulators, including the FDIC and the OCC. These rules are complex and are evolving as U.S. and international regulatory authorities propose and enact enhanced capital and liquidity rules. The Corporation seeks to manage its capital position to maintain sufficient capital to meet these regulatory guidelines and to support our business activities. These evolving rules are likely to influence our planning processes and may require additional regulatory capital and liquidity, as well as impose additional operational and compliance costs on the Corporation. In addition, the Federal Reserve and the OCC have adopted guidelines that establish minimum standards for the design, implementation and board oversight of BHCs' and national banks' risk governance frameworks. The Federal Reserve also issued a final rule, which became effective January 1, 2019, that includes minimum external total loss-absorbing capacity (TLAC) and long-term debt requirements.

For more information on regulatory capital rules, capital composition and pending or proposed regulatory capital changes, see Capital Management – Regulatory Capital in the MD&A on page 46, and *Note 17 – Regulatory Requirements and Restrictions* to the Consolidated Financial Statements, which are incorporated by reference in this Item 1.

Distributions

We are subject to various regulatory policies and requirements relating to capital actions, including payment of dividends and common stock repurchases. For instance, Federal Reserve regulations require major U.S. BHCs to submit a capital plan as part of an annual Comprehensive Capital Analysis and Review (CCAR). The purpose of the CCAR for the Federal Reserve is to assess the capital planning process of the BHC, including any planned capital actions, such as payment of dividends and common stock repurchases.

Our ability to pay dividends is also affected by the various minimum capital requirements and the capital and non-capital standards established under the FDICIA. The right of the Corporation, our shareholders and our creditors to participate in any distribution of the assets or earnings of our subsidiaries is further subject to the prior claims of creditors of the respective subsidiaries.

If the Federal Reserve finds that any of our Banks are not "well-capitalized" or "well-managed," we would be required to enter into an agreement with the Federal Reserve to comply with all

applicable capital and management requirements, which may contain additional limitations or conditions relating to our activities. Additionally, the applicable federal regulatory authority is authorized to determine, under certain circumstances relating to the financial condition of a bank or BHC, that the payment of dividends would be an unsafe or unsound practice and to prohibit payment thereof.

For more information regarding the requirements relating to the payment of dividends, including the minimum capital requirements, see *Note 14 – Shareholders' Equity* and *Note 17 – Regulatory Requirements and Restrictions* to the Consolidated Financial Statements.

Many of our subsidiaries, including our bank and broker-dealer subsidiaries, are subject to laws that restrict dividend payments, or authorize regulatory bodies to block or reduce the flow of funds from those subsidiaries to the parent company or other subsidiaries.

Resolution Planning

As a BHC with greater than \$50 billion of assets, the Corporation is required by the Federal Reserve and the FDIC to periodically submit a plan for a rapid and orderly resolution in the event of material financial distress or failure.

Such resolution plan is intended to be a detailed roadmap for the orderly resolution of the BHC and its material entities pursuant to the U.S. Bankruptcy Code and other applicable resolution regimes under one or more hypothetical scenarios assuming no extraordinary government assistance.

If both the Federal Reserve and the FDIC determine that the BHC's plan is not credible, the Federal Reserve and the FDIC may jointly impose more stringent capital, leverage or liquidity requirements or restrictions on growth, activities or operations. A summary of our plan is available on the Federal Reserve and FDIC websites.

The FDIC also requires the submission of a resolution plan for Bank of America, National Association, which must describe how the insured depository institution would be resolved under the bank resolution provisions of the Federal Deposit Insurance Act. A description of this plan is available on the FDIC's website.

We continue to make substantial progress to enhance our resolvability, including simplifying our legal entity structure and business operations, and increasing our preparedness to implement our resolution plan, both from a financial and operational standpoint.

Across international jurisdictions, resolution planning is the responsibility of national resolution authorities (RA). Among those, the jurisdictions of most impact to the Corporation are the requirements associated with subsidiaries in the U.K., Ireland and France, where rules have been issued requiring the submission of significant information about locally-incorporated subsidiaries (including information on intra-group dependencies, legal entity separation and barriers to resolution) as well as the Corporation's banking branches located in those jurisdictions that are deemed to be material for resolution planning purposes. As a result of the RA's review of the submitted information, we could be required to take certain actions over the next several years which could increase operating costs and potentially result in the restructuring of certain businesses and subsidiaries.

For more information regarding our resolution plan, see Item 1A. Risk Factors – Liquidity on page 7.

Insolvency and the Orderly Liquidation Authority

Under the Federal Deposit Insurance Act, the FDIC may be appointed receiver of an insured depository institution if it is insolvent or in certain other circumstances. In addition, under the

Financial Reform Act, when a systemically important financial institution (SIFI) such as the Corporation is in default or danger of default, the FDIC may be appointed receiver in order to conduct an orderly liquidation of such institution. In the event of such appointment, the FDIC could, among other things, invoke the orderly liquidation authority, instead of the U.S. Bankruptcy Code, if the Secretary of the Treasury makes certain financial distress and systemic risk determinations. The orderly liquidation authority is modeled in part on the Federal Deposit Insurance Act, but also adopts certain concepts from the U.S. Bankruptcy Code.

The orderly liquidation authority contains certain differences from the U.S. Bankruptcy Code. For example, in certain circumstances, the FDIC could permit payment of obligations it determines to be systemically significant (e.g., short-term creditors or operating creditors) in lieu of paying other obligations (e.g., long-term creditors) without the need to obtain creditors' consent or prior court review. The insolvency and resolution process could also lead to a large reduction or total elimination of the value of a BHC's outstanding equity, as well as impairment or elimination of certain debt.

Under the FDIC's "single point of entry" strategy for resolving SIFIs, the FDIC could replace a distressed BHC with a bridge holding company, which could continue operations and result in an orderly resolution of the underlying bank, but whose equity is held solely for the benefit of creditors of the original BHC.

Furthermore, the Federal Reserve requires that BHCs maintain minimum levels of long-term debt required to provide adequate loss absorbing capacity in the event of a resolution.

For more information regarding our resolution, see Item 1A. Risk Factors – Liquidity on page 7.

Limitations on Acquisitions

The Riegle-Neal Interstate Banking and Branching Efficiency Act of 1994 permits a BHC to acquire banks located in states other than its home state without regard to state law, subject to certain conditions, including the condition that the BHC, after and as a result of the acquisition, controls no more than 10 percent of the total amount of deposits of insured depository institutions in the U.S. and no more than 30 percent or such lesser or greater amount set by state law of such deposits in that state. At June 30, 2019, we held greater than 10 percent of the total amount of deposits of insured depository institutions in the U.S.

In addition, the Financial Reform Act restricts acquisitions by a financial institution if, as a result of the acquisition, the total liabilities of the financial institution would exceed 10 percent of the total liabilities of all financial institutions in the U.S. At June 30, 2019, our liabilities did not exceed 10 percent of the total liabilities of all financial institutions in the U.S.

The Volcker Rule

The Volcker Rule prohibits insured depository institutions and companies affiliated with insured depository institutions (collectively, banking entities) from engaging in short-term proprietary trading of certain securities, derivatives, commodity futures and options for their own account. The Volcker Rule also imposes limits on banking entities' investments in, and other relationships with, hedge funds and private equity funds. The Volcker Rule provides exemptions for certain activities, including market-making, underwriting, hedging, trading in government obligations, insurance company activities and organizing and offering hedge funds and private equity funds. The Volcker Rule also clarifies that certain activities are not prohibited, including acting as agent, broker or custodian. A banking entity with significant trading operations, such as the Corporation, is required

to maintain a detailed compliance program to comply with the restrictions of the Volcker Rule.

Derivatives

Our derivatives operations are subject to extensive regulation globally. These operations are subject to regulation under the Financial Reform Act, the European Union (EU) Markets in Financial Instruments Directive and Regulation, the European Market Infrastructure Regulation and similar regulatory regimes in other jurisdictions, that regulate or will regulate the derivatives markets in which we operate by, among other things: requiring clearing and exchange trading of certain derivatives; imposing new capital, margin, reporting, registration and business conduct requirements for certain market participants; imposing position limits on certain over-the-counter (OTC) derivatives; and imposing derivatives trading transparency requirements. Regulations of derivatives are already in effect in many markets in which we operate.

In addition, many G-20 jurisdictions, including the U.S., U.K., Germany and Japan, have adopted resolution stay regulations to address concerns that the close-out of derivatives and other financial contracts in resolution could impede orderly resolution of global systemically important banks (G-SIBs), and additional jurisdictions are expected to follow suit. Generally, these resolution stay regulations require amendment of certain financial contracts to provide for contractual recognition of stays of termination rights under various statutory resolution regimes and a stay on the exercise of cross-default rights based on an affiliate's entry into insolvency proceedings. As resolution stay regulations of a particular jurisdiction applicable to us go into effect, we amend impacted financial contracts in compliance with such regulations either as a regulated entity or as a counterparty facing a regulated entity in such jurisdiction.

Consumer Regulations

Our consumer businesses are subject to extensive regulation and oversight by federal and state regulators. Certain federal consumer finance laws to which we are subject, including the Equal Credit Opportunity Act, Home Mortgage Disclosure Act, Electronic Fund Transfer Act, Fair Credit Reporting Act, Real Estate Settlement Procedures Act, Truth in Lending Act and Truth in Savings Act, are enforced by the CFPB. Other federal consumer finance laws, such as the Servicemembers Civil Relief Act, are enforced by the OCC.

Privacy and Information Security

We are subject to many U.S. federal, state and international laws and regulations governing requirements for maintaining policies and procedures regarding the disclosure, use and protection of the non-public confidential information of our customers and employees. The Gramm-Leach-Bliley Act requires us to periodically disclose Bank of America's privacy policies and practices relating to sharing such information and enables retail customers to opt out of our ability to share information with unaffiliated third parties, under certain circumstances. The Gramm-Leach-Bliley Act and other laws also require us to implement a comprehensive information security program that includes administrative, technical and physical safeguards to provide the security and confidentiality of customer records and information. Security and privacy policies and procedures for the protection of personal and confidential information are in effect across all businesses and geographic locations.

Other laws and regulations, at the international, federal and state level, impact our ability to share certain information with affiliates and non-affiliates for marketing and/or non-marketing purposes, or contact customers with marketing offers and establish certain rights of consumers in connection with their personal information. For example, California's Consumer Privacy

Act (CCPA), which went into effect in January 2020, provides consumers with the right to know what personal data is being collected, know whether their personal data is sold or disclosed and to whom and opt out of the sale of their personal data, among other rights. In addition, in the EU, the General Data Protection Regulation (GDPR) replaced the Data Protection Directive and related implementing national laws in its member states. The CCPA's and GDPR's impact on the Corporation was assessed and addressed through comprehensive compliance implementation programs. These existing and evolving legal requirements in the U.S. and abroad, as well as court proceedings with respect to the validity of cross-border data transfer mechanisms from the EU, continue to lend uncertainty to privacy compliance globally.

Item 1A. Risk Factors

In the course of conducting our business operations, we are exposed to a variety of risks, some of which are inherent in the financial services industry and others of which are more specific to our own businesses. The discussion below addresses the most significant factors, of which we are currently aware, that could affect our businesses, results of operations and financial condition. Additional factors that could affect our businesses, results of operations and financial condition are discussed in Forward-looking Statements in the MD&A on page 22. However, other factors not discussed below or elsewhere in this Annual Report on Form 10-K could also adversely affect our businesses, results of operations and financial condition. Therefore, the risk factors below should not be considered a complete list of potential risks that we may face. For more information on how we manage risks, see Managing Risk in the MD&A on page 42.

Any risk factor described in this Annual Report on Form 10-K or in any of our other SEC filings could by itself, or together with other factors, materially adversely affect our liquidity, competitive position, business, reputation, results of operations, capital position or financial condition, including by materially increasing our expenses or decreasing our revenues, which could result in material losses.

Market

Our business and results of operations may be adversely affected by the U.S. and international financial markets, U.S. and non-U.S. fiscal, monetary, and regulatory policies, and economic conditions generally.

General economic, political and social conditions in the U.S. and in one or more countries abroad affect markets in the U.S. and abroad and our business. In particular, markets in the U.S. or abroad may be affected by the level and volatility of interest rates, availability and market conditions of financing, unexpected changes in gross domestic product (GDP), economic growth or its sustainability, inflation, consumer spending, employment levels, wage stagnation, federal government shutdowns, energy prices, home prices, bankruptcies, a default by a significant market participant, fluctuations or other significant changes in both debt and equity capital markets and currencies, liquidity of the global financial markets, the growth of global trade and commerce, trade policies, the availability and cost of capital and credit, disruption of communication, transportation or energy infrastructure and investor sentiment and confidence. Additionally, global markets may be adversely affected by natural disasters, the emergence of widespread health emergencies or pandemics, cyber attacks or campaigns, military conflict, terrorism or other geopolitical events. Market fluctuations may impact our margin requirements and affect our business liquidity. Also, any sudden or prolonged market downturn in the U.S. or abroad, as a result of the above factors or otherwise could result in a decline in revenue and adversely

affect our results of operations and financial condition, including capital and liquidity levels.

In the U.S. and abroad, uncertainties surrounding fiscal and monetary policies present economic challenges. Actions taken by the Federal Reserve, including changes in its target funds rate and balance sheet management, and other central banks are beyond our control and difficult to predict and can affect interest rates and the value of financial instruments and other assets and liabilities, and impact our borrowers. A continued protracted period of lower interest rates, or a move to negative interest rates in the U.S., could result in lower revenue, and maintain or increase pressure on net-interest income, which may adversely affect our results of operations. Uncertainty or ongoing developments in connection with the future relationship between the U.K. and the EU, and the resulting impact on the financial markets and regulations in relevant jurisdictions, could negatively impact our revenues and ongoing operations in Europe and beyond.

Changes to existing U.S. laws and regulatory policies, including those related to financial regulation, taxation, international trade, fiscal policy and healthcare, may adversely impact U.S. or global economic activity and our customers', counterparties' and the Corporation's earnings and operations. For example, significant fiscal policy initiatives may increase uncertainty surrounding the formulation and direction of U.S. monetary policy and volatility of interest rates. Higher U.S. interest rates relative to other major economies could increase the likelihood of a more volatile and appreciating U.S. dollar. Changes, or proposed changes, to certain U.S. trade policies, particularly with important trading partners, including China and the EU, have negatively impacted and may continue to negatively impact financial markets, disrupt world trade and commerce and lead to trade retaliation, including through the use of tariffs, foreign exchange measures or the large-scale sale of U.S. Treasury Bonds. Further, the use of tariffs among countries not directly involving the U.S. could spread and could damage our customers directly and indirectly.

Any of these developments could adversely affect our consumer and commercial businesses, our customers, our securities and derivatives portfolios, our level of charge-offs and provision for credit losses, the carrying value of our deferred tax assets, our capital levels, liquidity and our results of operations. Additionally, events and ongoing uncertainty related to the U.K.'s exit from the EU and the uncertainty related to the transition from Interbank Offered Rates (IBORs) and other benchmark rates to alternative reference rates (ARRs) could negatively impact markets in the U.S. and abroad and our business and/or magnify any negative impact of the above referenced developments on our business, customers and results of operations.

Increased market volatility and adverse changes in other financial or capital market conditions may increase our market risk.

Our liquidity, competitive position, business, results of operations and financial condition are affected by market risks such as changes in interest and currency exchange rates, fluctuations in equity and futures prices, lower trading volumes and prices of securitized products, the implied volatility of interest rates and credit spreads and other economic and business factors. These market risks may adversely affect, among other things, (i) the value of our on- and off-balance sheet securities, trading assets and other financial instruments, (ii) the cost of debt capital and our access to credit markets, (iii) the value of assets under management (AUM), (iv) fee income relating to AUM, (v) customer allocation of capital among investment alternatives, (vi) the volume of client activity in our trading operations, (vii) investment banking fees, (viii) the general profitability and risk level of the transactions in which we engage and (ix) our competitiveness with respect to

deposit pricing. For example, the value of certain of our assets is sensitive to changes in market interest rates. If the Federal Reserve or a non-U.S. central bank changes or signals a change in monetary policy, market interest rates could be affected, which could adversely impact the value of such assets. In addition, the low interest rate environment and a flat or inverted yield curve could negatively impact our financial condition or results of operations, including future revenue and earnings growth.

We use various models and strategies to assess and control our market risk exposures but those are subject to inherent limitations. For more information regarding models and strategies, see Item 1A. Risk Factors – Other on page 17. In times of market stress or other unforeseen circumstances, previously uncorrelated indicators may become correlated and vice versa. These types of market movements may limit the effectiveness of our hedging strategies and cause us to incur significant losses. These changes in correlation can be exacerbated where other market participants are using risk or trading models with assumptions or algorithms similar to ours. In these and other cases, it may be difficult to reduce our risk positions due to activity of other market participants or widespread market dislocations, including circumstances where asset values are declining significantly or no market exists for certain assets. To the extent that we own securities that do not have an established liquid trading market or are otherwise subject to restrictions on sale or hedging, we may not be able to reduce our positions and therefore reduce our risk associated with such positions. In addition, challenging market conditions may also adversely affect our investment banking fees.

For more information about market risk and our market risk management policies and procedures, see Market Risk Management in the MD&A on page 71.

We may incur losses if the value of certain assets declines, including due to changes in interest rates and prepayment speeds.

We have a large portfolio of financial instruments, including certain loans and loan commitments, loans held-for-sale, securities financing agreements, asset-backed secured financings, long-term deposits, long-term debt, trading account assets and liabilities, derivative assets and liabilities, available-for-sale (AFS) debt and marketable equity securities, other debt securities, equity method investments and certain other assets and liabilities that we measure at fair value and other accounting values, subject to impairment assessments. We determine these values based on applicable accounting guidance, which for financial instruments measured at fair value, requires an entity to base fair value on exit price and to maximize the use of observable inputs and minimize the use of unobservable inputs in fair value measurements. The fair values of these financial instruments include adjustments for market liquidity, credit quality, funding impact on certain derivatives and other transaction-specific factors, where appropriate.

Gains or losses on these instruments can have a direct impact on our results of operations, including higher or lower mortgage banking income and earnings, unless we have effectively hedged our exposures. Increases in interest rates may result in a decrease in residential mortgage loan originations. In addition, increases in interest rates may adversely impact the fair value of debt securities and, accordingly, for debt securities classified as AFS, may adversely affect accumulated other comprehensive income and, thus, capital levels.

Fair values may be impacted by declining values of the underlying assets or the prices at which observable market transactions occur and the continued availability of these transactions or indices. The financial strength of counterparties, with whom we have economically hedged some of our exposure to these assets, also will affect the fair value of these assets.

Sudden declines and volatility in the prices of assets may curtail or eliminate trading activities in these assets, which may make it difficult to sell, hedge or value these assets. The inability to sell or effectively hedge assets reduces our ability to limit losses in such positions and the difficulty in valuing assets may increase our risk-weighted assets, which requires us to maintain additional capital and increases our funding costs. Asset values also directly impact revenues in our wealth management and related advisory businesses. We receive asset-based management fees based on the value of our clients' portfolios or investments in funds managed by us and, in some cases, we also receive performance fees based on increases in the value of such investments. Declines in asset values can reduce the value of our clients' portfolios or fund assets, which in turn can result in lower fees earned for managing such assets.

For more information on fair value measurements, see *Note 21 – Fair Value Measurements* to the Consolidated Financial Statements. For more information on our asset management businesses, see *GWIM* in the MD&A on page 35. For more information on interest rate risk management, see *Interest Rate Risk Management* for the Banking Book in the MD&A on page 74.

Liquidity

If we are unable to access the capital markets or continue to maintain deposits, or our borrowing costs increase, our liquidity and competitive position will be negatively affected.

Liquidity is essential to our businesses. We fund our assets primarily with globally sourced deposits in our bank entities, as well as secured and unsecured liabilities transacted in the capital markets. We rely on certain secured funding sources, such as repo markets, which are typically short-term and credit-sensitive in nature. We also engage in asset securitization transactions, including with the government-sponsored enterprises (GSEs), to fund consumer lending activities. Our liquidity could be adversely affected by any inability to access the capital markets, illiquidity or volatility in the capital markets, the decrease in value of eligible collateral or increased collateral requirements, including as a result of credit concerns for short-term borrowing, changes to our relationships with our funding providers based on real or perceived changes in our risk profile, prolonged federal government shutdowns, or changes in regulations, guidance or GSE status that impact our funding avenues or ability to access certain funding sources. Additionally, the unwillingness or inability of the Federal Reserve to act as lender of last resort, unexpected simultaneous draws on lines of credit, restricted access to the assets of prime brokerage clients, the withdrawal of customer deposits, which could result from customer attrition for higher yields or the desire for more conservative alternatives, increased regulatory liquidity, capital and margin requirements for our U.S. or international banks and their nonbank subsidiaries, changes in patterns of intraday liquidity usage resulting from a counterparty or technology failure or other idiosyncratic event, failure by a significant market participant or third party, such as a clearing agent or custodian, reputational issues, or negative perceptions about our short- or long-term business prospects, including downgrades of our credit ratings may adversely affect our liquidity.

Several of these factors may arise due to circumstances beyond our control, such as general market volatility, disruption, shock or stress, Federal Reserve policy decisions, including fluctuations in interest rates or Federal Reserve balance sheet composition, negative views about the Corporation or financial services industry generally or due to a specific news event, changes in the regulatory environment or governmental fiscal or monetary policies, actions by credit rating agencies or an operational problem that affects third parties or us. The impact of these events, whether within our

control or not, could include an inability to sell assets or redeem investments, unforeseen outflows of cash, the need to draw on liquidity facilities, the reduction of financing balances and the loss of equity secured funding, debt repurchases to support the secondary market or meet client requests and the need for additional funding for commitments and contingencies, as well as unexpected collateral calls, among other things, the result of which could be a liquidity shortfall and/or impact on our liquidity coverage ratio.

Our cost of obtaining funding is directly related to prevailing market conditions, including changes in interest and currency exchange rates, and to our credit spreads. Credit spreads are the amount in excess of the interest rate of U.S. Treasury securities, or other benchmark securities, of a similar maturity that we need to pay to our funding providers. Increases in interest rates and our credit spreads can increase the cost of our funding and result in mark-to-market or credit valuation adjustment exposures. Changes in our credit spreads are market-driven and may be influenced by market perceptions of our creditworthiness. Changes to interest rates and our credit spreads occur continuously and may be unpredictable and highly volatile. We may also experience spread compression as a result of offering higher than expected deposit rates in order to attract and maintain deposits due to increased marketplace rate competition. Additionally, concentrations within our funding profile, such as maturities, currencies or counterparties, can reduce our funding efficiency.

For more information about our liquidity position and other liquidity matters, including credit ratings and outlooks and the policies and procedures we use to manage our liquidity risks, see *Liquidity Risk* in the MD&A on page 50.

Adverse changes to our credit ratings from the major credit rating agencies could significantly limit our access to funding or the capital markets, increase our borrowing costs or trigger additional collateral or funding requirements.

Our borrowing costs and ability to raise funds are directly impacted by our credit ratings. In addition, credit ratings may be important to customers or counterparties when we compete in certain markets and seek to engage in certain transactions, including OTC derivatives. Credit ratings and outlooks are opinions expressed by rating agencies on our creditworthiness and that of our obligations or securities, including long-term debt, short-term borrowings, preferred stock and asset securitizations. Our credit ratings are subject to ongoing review by rating agencies, which consider a number of factors, including our own financial strength, performance, prospects and operations as well as factors not under our control such as the current economic and geopolitical environment, and to a lesser extent, the likelihood of the U.S. government providing meaningful support to us or our subsidiaries in a crisis.

Rating agencies could make adjustments to our credit ratings at any time, and there can be no assurance as to when and whether downgrades will occur. A reduction in certain of our credit ratings could result in a wider credit spread and negatively affect our liquidity, access to credit markets, the related cost of funds, our businesses and certain trading revenues, particularly in those businesses where counterparty creditworthiness is critical. If the short-term credit ratings of our parent company, or bank or broker-dealer subsidiaries, were downgraded by one or more levels, we may suffer the potential loss of access to short-term funding sources such as repo financing, and/or incur increased cost of funds and increased collateral requirements. Under the terms of certain OTC derivative contracts and other trading agreements, if our or our subsidiaries' credit ratings are downgraded, the counterparties may require additional collateral or terminate these contracts or agreements.

While certain potential impacts are contractual and quantifiable, the full consequences of a credit rating downgrade to a financial institution are inherently uncertain, as they depend upon numerous dynamic, complex and inter-related factors and assumptions, including whether any downgrade of a firm's long-term credit ratings precipitates downgrades to its short-term credit ratings, and assumptions about the potential behaviors of various customers, investors and counterparties.

For more information on the amount of additional collateral required and derivative liabilities that would be subject to unilateral termination at December 31, 2019, if the rating agencies had downgraded their long-term senior debt ratings for the Corporation or certain subsidiaries by each of two incremental notches, see Credit-related Contingent Features and Collateral in *Note 3 – Derivatives* to the Consolidated Financial Statements.

For more information about our credit ratings and their potential effects to our liquidity, see *Liquidity Risk – Credit Ratings* in the MD&A on page 52 and *Note 3 – Derivatives* to the Consolidated Financial Statements.

Bank of America Corporation is a holding company and we depend upon our subsidiaries for liquidity, including the ability to pay dividends to shareholders and to fund payments on other obligations. Applicable laws and regulations, including capital and liquidity requirements, and actions taken pursuant to our resolution plan could restrict our ability to transfer funds from subsidiaries to Bank of America Corporation or to other subsidiaries, which could adversely affect our cash flow and financial condition.

Bank of America Corporation, as the parent company, is a separate and distinct legal entity from our banking and nonbank subsidiaries. We evaluate and manage liquidity on a legal entity basis. Legal entity liquidity is an important consideration as there are legal, regulatory, contractual and other limitations on our ability to utilize liquidity from one legal entity to satisfy the liquidity requirements of another, including the parent company, which could result in adverse liquidity events. The parent company depends on dividends, distributions, loans, advances and other payments from our banking and nonbank subsidiaries to fund dividend payments on our common stock and preferred stock and to fund all payments on our other obligations, including debt obligations. Any inability of our subsidiaries to pay dividends or make payments to us may adversely affect our cash flow and financial condition.

Many of our subsidiaries, including our bank and broker-dealer subsidiaries, are subject to laws that restrict dividend payments, or authorize regulatory bodies to block or reduce the flow of funds from those subsidiaries to the parent company or other subsidiaries. Our bank and broker-dealer subsidiaries are subject to restrictions on their ability to lend or transact with affiliates and to minimum regulatory capital and liquidity requirements, as well as restrictions on their ability to use funds deposited with them in bank or brokerage accounts to fund their businesses. Intercompany arrangements we entered into in connection with our resolution planning submissions could restrict the amount of funding available to the parent company from our subsidiaries under certain adverse conditions.

Additional restrictions on related party transactions, increased capital and liquidity requirements and additional limitations on the use of funds on deposit in bank or brokerage accounts, as well as lower earnings, can reduce the amount of funds available to meet the obligations of the parent company and even require the parent company to provide additional funding to such subsidiaries. Also, regulatory action that requires additional liquidity at each of our subsidiaries could impede access to funds we need to pay our obligations or pay dividends. In addition, our right to participate in

a distribution of assets upon a subsidiary's liquidation or reorganization is subject to prior claims of the subsidiary's creditors. For more information regarding our ability to pay dividends, see *Capital Management* in the MD&A on page 45 and *Note 14 – Shareholders' Equity* to the Consolidated Financial Statements.

In the event of a resolution, whether in a bankruptcy proceeding or under the orderly liquidation authority of the FDIC, such resolution could materially adversely affect our liquidity and financial condition, and the ability to pay dividends to shareholders and to pay obligations.

Bank of America Corporation, our parent holding company, is required to periodically submit a plan to the FDIC and Federal Reserve describing its resolution strategy under the U.S. Bankruptcy Code in the event of material financial distress or failure. In the current plan, Bank of America Corporation's preferred resolution strategy is a "single point of entry" strategy. This strategy provides that only the parent holding company files for resolution under the U.S. Bankruptcy Code and contemplates providing certain key operating subsidiaries with sufficient capital and liquidity to operate through severe stress and to enable such subsidiaries to continue operating or be wound down in a solvent manner following a bankruptcy of the parent holding company. Bank of America Corporation has entered into intercompany arrangements resulting in the contribution of most of its capital and liquidity to key subsidiaries. Pursuant to these arrangements, if Bank of America Corporation's liquidity resources deteriorate so severely that resolution becomes imminent, Bank of America Corporation will no longer be able to draw liquidity from its key subsidiaries, and will be required to contribute its remaining financial assets to a wholly-owned holding company subsidiary, which could materially and adversely affect our liquidity and financial condition and the ability to pay dividends to shareholders and meet our payment obligations.

If the FDIC and Federal Reserve jointly determine that Bank of America Corporation's resolution plan is not credible, they could impose more stringent capital, leverage or liquidity requirements or restrictions on our growth, activities or operations. Further, we could be required to take certain actions that could impose operating costs and could potentially result in the divestiture or restructuring of certain businesses and subsidiaries.

Additionally, under the Financial Reform Act, when a G-SIB such as Bank of America Corporation is in default or danger of default, the FDIC may be appointed receiver in order to conduct an orderly liquidation of such institution. In the event of such appointment, the FDIC could, among other things, invoke the orderly liquidation authority, instead of the U.S. Bankruptcy Code, if the Secretary of the Treasury makes certain financial distress and systemic risk determinations. In 2013, the FDIC issued a notice describing its preferred "single point of entry" strategy for resolving a G-SIB. Under this approach, the FDIC could replace Bank of America Corporation with a bridge holding company, which could continue operations and result in an orderly resolution of the underlying bank, but whose equity would be held solely for the benefit of our creditors. The FDIC's "single point of entry" strategy may result in our security holders suffering greater losses than would have been the case under a bankruptcy proceeding or a different resolution strategy.

For more information about resolution planning, see Item 1. Business – Resolution Planning on page 4. For more information about the FDIC's orderly liquidation, see Item 1. Business – Insolvency and the Orderly Liquidation Authority on page 4.

Credit

Economic or market disruptions, insufficient credit loss reserves or concentrations of credit risk may result in an increase in the provision for credit losses, which could have an adverse effect on our financial condition and results of operations.

A number of our products expose us to credit risk, including loans, letters of credit, derivatives, debt securities, trading account assets and assets held-for-sale. A deterioration in the financial condition of our consumer and commercial borrowers, counterparties or underlying collateral could adversely affect our financial condition and results of operations.

Global and U.S. economic conditions and macroeconomic or market events and disruptions, including a continuing slowdown in global GDP growth, a decline in consumer spending, a decline in property values or an asset price correction, increasing consumer and corporate leverage, as well as rising unemployment, fluctuations in foreign exchange or interest rates, widespread health emergencies or pandemics and/or natural disasters, may impact our credit portfolios. In addition, significant economic or market stresses and disruptions could have a negative impact on the business environment and financial markets, increasing the risk that borrowers or counterparties would default or become delinquent in their obligations to us, which could lead to recessionary conditions and/or increase our credit losses and provision for credit losses, which could have a negative impact on our results of operations.

In particular, increases in delinquencies and default rates could adversely affect our consumer credit card, home equity and residential mortgage portfolios through increased charge-offs and provision for credit losses. A deteriorating economic environment in the U.S. or globally could also adversely affect our consumer and commercial loan portfolios with weakened client and collateral positions. Simultaneous drawdowns on lines of credit and/or an increase in a borrower's leverage in a weakening economic environment could result in deterioration in our credit portfolio, should borrowers be unable to fulfill competing financial obligations. The impact of this could also be magnified by lending to leveraged borrowers, elevated asset prices and/or declining property or collateral values unrelated to macroeconomic stress.

We estimate and establish an allowance for credit losses for losses inherent in our lending activities (including unfunded lending commitments), excluding those measured at fair value, through a charge to earnings. The process for determining the amount of the allowance requires us to make difficult and complex judgments, including forecasting how borrowers will react to changing economic conditions. The ability of our borrowers or counterparties to repay their obligations will likely be impacted by changes in future economic conditions, which in turn could impact the accuracy of our loss forecasts and allowance estimates. There is also the possibility that we will fail to accurately identify the appropriate economic indicators or that we will fail to accurately estimate their impacts to our borrowers and the reserves that we hold.

We may suffer unexpected losses if the models and assumptions we use to establish reserves and make judgments in extending credit to our borrowers or counterparties prove inaccurate in predicting future events. In addition, external factors, such as the macroeconomic or market events disclosed above can also negatively impact our recognition of credit losses in our portfolios and impact our allowance for credit losses. As of January 1, 2020, we implemented a new accounting standard to estimate our allowance for credit losses. For more information, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements. Although we believe that the allowance for credit losses is in compliance with the new accounting standard

at January 1, 2020, there is no guarantee that it will be sufficient to address credit losses, particularly if economic conditions deteriorate quickly and/or significantly. In such an event, we may increase the size of our allowance which would reduce our earnings.

In the ordinary course of our business, we also may be subject to concentrations of credit risk because of a common characteristic or common sensitivity to economic, financial or business developments. For example, concentrations in credit risk may result in a particular industry, geographic location, product, asset class, counterparty, individual exposure or within any pool of exposures with a common risk characteristic. A deterioration in the financial condition or prospects of a particular industry, geographic location, product or asset class, or a failure or downgrade of, or default by, any particular entity or group of entities could negatively affect our businesses and it is possible our limits and credit monitoring exposure controls will not function as anticipated.

While our activities expose us to many different industries and counterparties, we routinely execute a high volume of transactions with counterparties in the financial services industry, including broker-dealers, commercial banks, investment banks, insurers, mutual funds and hedge funds, central counterparties and other institutional clients. This has resulted in significant credit concentration with respect to this industry. Financial services institutions and other counterparties are inter-related because of trading, funding, clearing or other relationships. As a result, defaults by, or even market uncertainty about the financial stability of one or more financial services institutions, or the financial services industry generally, could lead to market-wide liquidity disruptions, losses and defaults.

Many of these transactions expose us to credit risk and, in some cases, disputes and litigation in the event of default of a counterparty. In addition, our credit risk may be heightened by market risk when the collateral held by us cannot be liquidated or is liquidated at prices not sufficient to recover the full amount of the loan or derivatives exposure due to us, which may occur as a result of fraud or other events that impact the value of the collateral. Further, disputes with obligors as to the valuation of collateral could increase in times of significant market stress, volatility or illiquidity, and we could suffer losses during such periods if we are unable to realize the fair value of the collateral or manage declines in the value of collateral.

In the ordinary course of business, we also enter into transactions with sovereign nations, U.S. states and U.S. municipalities. Unfavorable economic or political conditions, disruptions to capital markets, currency fluctuations, changes in oil prices, social instability and changes in government or monetary policies could impact the operating budgets or credit ratings of these government entities and expose us to credit risk.

We also have concentrations of credit risk with respect to our consumer real estate, auto, consumer credit card and commercial real estate portfolios, which represent a significant percentage of our overall credit portfolio. Additionally, decreases in home price valuations or commercial real estate valuations in certain markets where we have large concentrations, including as a result of climate change or natural disasters (e.g., rising sea levels, hurricanes and fires), as well as more broadly within the U.S. or globally, could result in increased defaults, delinquencies or credit loss. For more information, see *Consumer Portfolio Credit Risk Management* in the MD&A on page 54.

Furthermore, our commercial portfolios include exposures to certain industries, including asset managers and funds, real estate, capital goods and finance companies. For more information, see *Commercial Portfolio Credit Risk Management* in

the MD&A on page 60. Economic weaknesses, adverse business conditions, market disruptions, rising interest or capitalization rates, the collapse of speculative bubbles, greater volatility in areas where we have concentrated credit risk or deterioration in real estate values or household incomes may cause us to experience a decrease in cash flow and higher credit losses in either our consumer or commercial portfolios or cause us to write down the value of certain assets.

Liquidity disruptions in the financial markets may result in our inability to sell, syndicate or realize the value of our positions, leading to increased concentrations, which could increase the credit and market risk associated with our positions, as well as increase our risk-weighted assets.

For more information on our credit risk and credit risk management policies and procedures, see Credit Risk Management in the MD&A on page 53, *Note 1 – Summary of Significant Accounting Principles*, *Note 5 – Outstanding Loans and Leases* and *Note 6 – Allowance for Credit Losses* to the Consolidated Financial Statements.

If the U.S. housing market weakens or home prices decline, our consumer loan portfolios, credit quality, credit losses, representations and warranties exposures and earnings may be adversely affected.

While U.S. home prices continued to generally increase in 2019, the rate of increase has slowed compared to recent periods. We remain conscious of geographic markets where housing price growth has slowed or decreased and other geographic markets where housing prices have declined, as further declines in future periods may negatively impact the demand for many of our products. Additionally, our mortgage loan production volume is generally influenced by the rate of growth in residential mortgage debt outstanding and the size of the residential mortgage market, both of which may be adversely affected by rising interest rates. Conditions in the U.S. housing market during the most recent financial crisis resulted in both significant write-downs of asset values in several asset classes, notably mortgage-backed securities, and exposure to monolines. If the U.S. housing market were to weaken, the value of real estate could decline, which could result in increased credit losses and delinquent servicing expenses and negatively affect our representations and warranties exposures, which could have an adverse effect on our financial condition and results of operations.

Our derivatives businesses may expose us to unexpected risks and potential losses.

We are party to a large number of derivatives transactions that may expose us to unexpected market, credit and operational risks that could cause us to suffer unexpected losses. Severe declines in asset values, unanticipated credit events or unforeseen circumstances that may cause previously uncorrelated factors to become correlated and vice versa, may create losses resulting from risks not appropriately taken into account or anticipated in the development, structuring or pricing of a derivative instrument. Certain OTC derivative contracts and other trading agreements provide that upon the occurrence of certain specified events, such as a change in the credit rating of a particular Bank of America entity or entities, we may be required to provide additional collateral or take other remedial actions and could experience increased difficulty obtaining funding or hedging risks. In some cases our counterparties may have the right to terminate or otherwise diminish our rights under these contracts or agreements.

We are also a member of various central counterparties (CCPs) in part due to regulatory requirements for mandatory clearing of derivative transactions, which potentially increases our credit risk exposures to CCPs. In the event that one or more members of the CCP defaults on its obligations, we may be required to pay a portion

of any losses incurred by the CCP as a result of that default. A CCP may modify, in its discretion, the margin we are required to post, which could mean unexpected and increased exposure to the CCP. As a clearing member, we are exposed to the risk of non-performance by our clients for which we clear transactions, which may not be covered by available collateral. Additionally, any default by a significant market participant may result in further risk and potential losses.

For more information on our derivatives exposure, see *Note 3 – Derivatives* to the Consolidated Financial Statements.

Geopolitical

We are subject to numerous political, economic, market, reputational, operational, legal, regulatory and other risks in the jurisdictions in which we operate.

We do business throughout the world including in emerging markets. Economic or geopolitical stress in one or more countries could have a negative impact regionally or globally, resulting in, among other things, market volatility, reduced market value and economic output. Our businesses and revenues derived from non-U.S. jurisdictions are subject to risk of loss from currency fluctuations, financial, social or judicial instability, changes in government leadership, including as a result of electoral outcomes or otherwise, changes in governmental policies or policies of central banks, expropriation, nationalization and/or confiscation of assets, price controls, high inflation, natural disasters, the emergence of widespread health emergencies or pandemics, capital controls, currency redenomination risk, exchange controls, unfavorable political and diplomatic developments, oil price fluctuations and changes in legislation. Additionally, protectionist trade policies and continued trade tensions between the U.S. and important trading partners, particularly China and the EU, including the risk that tariffs continue to rise and other restrictive actions are taken that weigh heavily on regional trade volumes and domestic demand through falling business sentiment and lower consumer confidence, could adversely affect our businesses and revenues. These risks are especially elevated in emerging markets.

A number of non-U.S. jurisdictions in which we do business have been or may be negatively impacted by slowing growth or recessionary conditions, market volatility and/or political unrest. In Europe, the political and economic environment remains challenging due to slowing GDP growth, debt concerns of certain EU countries and elevated recessionary risks, including in Germany and the U.K. The current degree of European political and economic uncertainty could increase and create additional market volatility and negatively impact our business and results of operations. Significant market volatility and geopolitical unrest could also result from ongoing uncertainty related to the U.K.'s exit from the EU and the transition period during which the terms of such exit will be negotiated, which could adversely affect us.

Potential risks of default on or devaluation of sovereign debt in some non-U.S. jurisdictions could expose us to substantial losses. Risks in one nation can limit our opportunities for portfolio growth and negatively affect our operations in other nations, including our U.S. operations. Market and economic disruptions of all types may affect consumer confidence levels and spending, corporate investment and job creation, bankruptcy rates, levels of incurrence and default on consumer and corporate debt, economic growth rates and asset values, among other factors. Any such unfavorable conditions or developments could have an adverse impact on the Corporation.

We also invest or trade in the securities of corporations and governments located in non-U.S. jurisdictions, including emerging markets. Revenues from the trading of non-U.S. securities may be

subject to negative fluctuations as a result of the above factors. Furthermore, the impact of these fluctuations could be magnified because non-U.S. trading markets, particularly in emerging markets, are generally smaller, less liquid and more volatile than U.S. trading markets.

Our non-U.S. businesses are also subject to extensive regulation by governments, securities exchanges and regulators, central banks and other regulatory bodies. In many countries, the laws and regulations applicable to the financial services and securities industries are uncertain and evolving, and it may be difficult for us to determine the exact requirements of local laws in every market or manage our relationships with multiple regulators in various jurisdictions. Our potential inability to remain in compliance with local laws in a particular market and manage our relationships with regulators could result in increased expenses and changes to our organizational structure and have an adverse effect on our businesses and results of operations in that market, as well as our reputation in general.

In addition to non-U.S. legislation, our international operations are also subject to U.S. legal requirements. For example, our operations are subject to U.S. and non-U.S. laws and regulations relating to bribery and corruption, anti-money laundering, and economic sanctions, which can vary by jurisdiction. The increasing speed and novel ways in which funds circulate could make it more challenging to track the movement of funds and heightens financial crimes risk. Our ability to comply with these legal requirements depends on our ability to continually improve detection and reporting and analytic capabilities.

In the U.S., debt ceiling and budget deficit concerns, which have increased the possibility of U.S. government defaults on its debt and/or downgrades to its credit ratings, and prolonged government shutdowns could negatively impact the global economy and banking system and adversely affect our financial condition, including our liquidity. Additionally, changes in fiscal, monetary or regulatory policy could increase our compliance costs and adversely affect our business operations, organizational structure and results of operations. We are also subject to geopolitical risks, including acts or threats of terrorism, actions taken by the U.S. or other governments in response thereto, state-sponsored cyber attacks or campaigns and/or military conflicts, which could adversely affect business and economic conditions abroad, as well as in the U.S.

For more information on our non-U.S. credit and trading portfolios, see Non-U.S. Portfolio in the MD&A on page 66.

The U.K. Referendum, and the planned exit of the U.K. from the EU, could adversely affect us.

We conduct business in Europe, the Middle East and Africa primarily through our subsidiaries in the U.K. France and Ireland. For the year ended December 31, 2019, our operations in Europe, the Middle East and Africa, including the U.K., represented approximately six percent of our total revenue, net of interest expense.

On January 31, 2020, the U.K. formally exited the EU. Upon exit, a transition period began during which time the U.K. and the EU expect to negotiate a trade agreement and other terms associated with their future relationship. The transition period is scheduled to end on December 31, 2020. The ultimate impact and terms of such negotiation and any trade or other agreements remain unclear, and short- and long-term global economic and market volatility and disruptions to regional and global financial markets may occur, including as a result of currency fluctuations and trade relations. There can be no guarantee that the U.K. and EU will reach an agreement on trade or any other matters during the transition period or that the transition period will be extended if agreements are not reached. Additionally, there may be

heightened geopolitical uncertainty and/or market volatility if a trade and other agreements are not reached by the end of the transition period, including with regard to cross-border conduct of financial services and the treatment of existing financial transactions and contracts. If uncertainty resulting from the U.K.'s exit or the end to the transition period negatively impacts economic conditions, financial markets, including currency markets and consumer confidence, or clients, counterparties, and financial markets are not prepared for the trade and other agreements that are ultimately agreed upon or the transition period ends without a trade or other agreements, our business, results of operations, financial position and/or operational model could be adversely affected.

We are also subject to different laws, regulations and regulatory authorities and may incur additional costs and/or experience negative tax consequences as a result of establishing our principal EU banking and broker-dealer operations outside of the U.K., which could adversely impact our EU business, results of operations and operational model. Additionally, changes to the legal and regulatory framework under which our subsidiaries will continue to provide products and services in the U.K. and in the EU following the transition period may result in additional compliance costs and have negative tax consequences or an adverse impact on our results of operations. For more information on our EU operations outside of the U.K., see Executive Summary – Recent Developments – U.K. Exit from the EU in the MD&A on page 23.

Business Operations

A failure in or breach of our operational or security systems or infrastructure, or those of third parties, including their downstream service providers and the financial services industry, could disrupt our critical business operations and customer services, result in regulatory, market, privacy, liquidity and operational risk exposures, and adversely impact our results of operations and financial condition, as well as cause legal or reputational harm.

The potential for operational risk exposure exists throughout our organization and as a result of our interactions with, and reliance on, third parties, including their downstream service providers, and the financial services industry infrastructure. Our operational and security systems infrastructure, including our computer systems, emerging technologies, data management and internal processes, as well as those of third parties, are integral to our performance. We rely on our employees and third parties in our day-to-day and ongoing operations, who may, as a result of human error, misconduct, malfeasance or a failure or breach of systems or infrastructure, expose us to risk.

Additionally, our financial, accounting, data processing and transmission, storage, backup or other operating or security systems and infrastructure or those of third parties with whom we interact or upon whom we rely may fail to operate properly or become disabled or damaged as a result of a number of factors including events that are wholly or partially beyond our or such third party's control, which could adversely affect our ability to process transactions or provide services. We could also experience prolonged computer and network outages resulting in disruptions to our critical business operations and customer services, including abuse or failure of our electronic trading and algorithmic platforms. We may experience electrical, telecommunications or other major physical infrastructure outages, newly identified vulnerabilities in key hardware or software, failure of aging infrastructure, technology project implementation challenges, natural disasters such as earthquakes, tornadoes, hurricanes and floods, widespread health emergencies or pandemics and events arising from local or larger

scale political or social matters, including terrorist acts, which could result in prolonged operational outages.

Regardless of the measures we have taken to implement training, procedures, backup systems and other safeguards to support our operations and bolster our operational resilience, our ability to conduct business may be adversely affected by any significant disruptions to us or to third parties, including their downstream service providers, with whom we interact or upon whom we rely, including a systematic cyber campaign that results in system outages and unavailability of part or all of the financial services industry infrastructure. Our ability to implement backup systems and other safeguards with respect to third-party systems and the financial services industry infrastructure is more limited than with respect to our own systems.

In the event that backup systems are available and utilized, they may not process data as quickly as our primary systems and some data might not have been backed up. We continuously update the systems on which we rely to support our operations and growth and to remain compliant with all applicable laws, rules and regulations globally. This updating entails significant costs and creates risks associated with implementing new systems and integrating them with existing ones, including business interruptions. A failure or breach of our operational or security systems or infrastructure resulting in disruption to our critical business operations and customer services could expose us to regulatory, market, privacy and liquidity risk, and adversely impact our results of operations and financial condition, as well as cause legal or reputational harm.

A cyber attack, information or security breach, or a technology failure of ours or of a third party could adversely affect our ability to conduct our business, manage our exposure to risk or expand our businesses, result in the disclosure or misuse of confidential or proprietary information, increase our costs to maintain and update our operational and security systems and infrastructure, and adversely impact our results of operations, liquidity and financial condition, as well as cause legal or reputational harm.

Our business is highly dependent on the security, controls and efficacy of our infrastructure, computer and data management systems, as well as those of our customers, suppliers, counterparties and other third parties, including their downstream service providers, the financial services industry and financial data aggregators, with whom we interact, on whom we rely or who have access to our customers' personal or account information. Our business relies on effective access management and the secure collection, processing, transmission, storage and retrieval of confidential, proprietary, personal and other information in our computer and data management systems and networks, and in the computer and data management systems and networks of third parties. In addition, to access our network, products and services, our employees, customers, suppliers, counterparties and other third parties increasingly use personal mobile devices or computing devices that are outside of our network and control environments and are subject to their own cybersecurity risks.

We, our employees and customers, regulators and other third parties are regularly the target of cyber attacks and are likely to continue to be the target of cyber attacks. These cyber attacks are pervasive and evolving and include computer viruses, malicious or destructive code (such as ransomware), phishing attacks, denial of service or information or other security breach tactics that could result in the unauthorized release, gathering, monitoring, misuse, loss or destruction or theft of confidential, proprietary and other information, including intellectual property, of ours, our employees, our customers or of third parties, damages to systems, or otherwise material disruption to our or our customers' or other third parties' network access or business

operations, both domestically and internationally. As cyber threats continue to evolve, we may be required to expend significant additional resources to modify or enhance our protective measures, investigate and remediate any information security vulnerabilities or incidents and develop our capabilities to respond and recover. Cyber threats are rapidly changing, and despite substantial efforts to protect the integrity of our systems and implement controls, processes, policies and other protective measures, we may not be able to anticipate cyber attacks or information or security breaches, nor may we be able to implement effective preventive or defensive measures to address such attacks or breaches. Even the most advanced internal control environment is vulnerable to compromise. Internal access management failures could result in the compromise or unauthorized exposure of confidential data. Targeted social engineering attacks are becoming more sophisticated and are extremely difficult to prevent.

Our cybersecurity risk and exposure remains heightened because of, among other things, the evolving nature and pervasiveness of cyber threats, our prominent size and scale, our role in the financial services industry and the broader economy. The financial services industry is particularly at risk because of the proliferation of new and emerging technologies, including third-party financial data aggregators, and the use of the Internet and telecommunications technologies to conduct financial transactions. For example, our plans to continue our use of automation, artificial intelligence and robotics, increase our internet and mobile banking products, including mobile payment and other web- and cloud-based products and applications, and develop additional remote connectivity solutions to serve our customers when and how they want to be served, increase our cybersecurity risks and exposure.

Additionally, our continuous transmission of sensitive information to, and storage of such information by, third parties, including our vendors and regulators, our geographic footprint and international presence, the outsourcing of some of our business operations, threats of cyber terrorism, external extremist parties, including state-sponsored actors, in some circumstances as a means to promote political ends, and system and customer account updates and conversions result in heightened risk exposure. As a result, cybersecurity and the continued development and enhancement of our controls, processes and practices designed to protect our systems, computers, intellectual property and proprietary information, software, data and networks from attack, damage or unauthorized access remain a critical priority. Cybersecurity risks have also significantly increased in recent years in part due to the increasingly sophisticated activities of organized crime groups, hackers, terrorist organizations, hostile foreign governments, disgruntled employees or vendors, activists and other external parties, including those involved in corporate espionage. The techniques used in cyber attacks change frequently, and these attacks or ensuing security breaches could persist for an extended period of time before being detected. It could take considerable additional time for us to determine the scope, extent, amount, and type of information compromised, at which time the impact on the Corporation and measures to recover and restore to a business as usual state may be difficult to assess.

We also face indirect technology, cybersecurity and operational risks relating to the customers, clients and other third parties, including their downstream service providers and the financial services industry, with whom we do business, upon whom we rely to facilitate or enable our business activities or upon whom our customers rely. Such third parties also include financial counterparties, financial data aggregators, financial intermediaries, such as clearing agents, exchanges and clearing

houses, vendors, regulators, providers of critical infrastructure, such as internet access and electrical power, and retailers for whom we process transactions. As a result of increasing consolidation, interdependence and complexity of financial entities and technology systems, a technology failure, cyber attack or other information or security breach that significantly degrades, deletes or compromises the systems or data of one or more financial entities or third-party or their downstream service providers could have a material impact on counterparties or other market participants, including us. This consolidation, interconnectivity and complexity increases the risk of operational failure, on both individual and industry-wide bases, as disparate systems need to be integrated, often on an accelerated basis. Any technology failure, cyber attack or other information or security breach, termination or constraint of any third party, including their downstream service providers, the financial services industry infrastructure or financial data aggregators, could, among other things, adversely affect our ability to conduct day-to-day business activities, effect transactions, service our clients, manage our exposure to risk or expand our businesses, result in the misappropriation or destruction of the personal, proprietary or confidential information of our employees, customers, suppliers, counterparties and other third parties or result in fraudulent or unauthorized transactions. Further, any such event may not be disclosed to us in a timely manner.

Although to date we have not experienced any material losses or other material consequences relating to technology failure, cyber attacks or other information or security breaches, whether directed at us or third parties, there can be no assurance that our controls and procedures in place to monitor and mitigate the risks of cyber threats will be sufficient and that we will not suffer material losses or consequences in the future. Cyber attacks or other information or security breaches, whether directed at us or third parties, may result in significant lost revenue, give rise to losses or have other negative consequences. Furthermore, the public perception that a cyber attack on our systems has been successful, whether or not this perception is correct, may damage our reputation with customers and third parties with whom we do business. Although we maintain cyber insurance, there can be no assurance that liabilities or losses we may incur will be covered under such policies or that the amount of insurance will be adequate.

Also, successful penetration or circumvention of system security could result in negative consequences, including loss of customers and business opportunities, the withdrawal of customer deposits, prolonged computer and network outages resulting in disruptions to our critical business operations and customer services, misappropriation or destruction of our intellectual property, proprietary information or confidential information and/or the confidential, proprietary or personal information of certain parties, such as our employees, customers, suppliers, counterparties and other third parties, or damage to their computers or systems. This could result in a violation of applicable privacy and other laws in the U.S. and abroad, litigation exposure, regulatory fines, penalties or intervention, loss of confidence in our security measures, reputational damage, reimbursement or other compensatory costs, additional compliance costs and our internal controls or disclosure controls being rendered ineffective. The occurrence of any of these events could adversely impact our results of operations, liquidity and financial condition.

Our mortgage loan repurchase obligations or claims from third parties could result in additional losses.

We and our legacy companies have sold significant amounts of residential mortgage loans. In connection with these sales, we or certain of our subsidiaries or legacy companies made various

representations and warranties, breaches of which may result in a requirement that we repurchase the mortgage loans, or otherwise make whole or provide other remedies to counterparties. At December 31, 2019, we had \$10.7 billion of unresolved repurchase claims, net of duplicate claims and excluding claims where the statute of limitations has expired without litigation being commenced.

At December 31, 2019, our liability for obligations under representations and warranties exposures was \$1.8 billion. We also have an estimated range of possible loss (RPL) for representations and warranties exposures that is combined with the litigation RPL, which we disclose in *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements. The recorded liability and estimated RPL are based on currently available information, significant judgment and a number of assumptions that are subject to change. There can be no assurance that the Corporation will reach future settlements or, if it does, that the terms of past settlements can be relied upon to predict the terms of future settlements. Future representations and warranties losses may occur in excess of our recorded liability and estimated RPL, and such losses could have a material adverse effect on our results of operations.

Additionally, our recorded liability for representations and warranties exposures and the corresponding estimated RPL do not consider certain losses related to servicing, including foreclosure and related costs, fraud, indemnity or claims (including for residential mortgage-backed securities) related to securities law. Losses with respect to one or more of these matters could be material to our results of operations.

For more information about our representations and warranties exposure, see *Off-Balance Sheet Arrangements and Contractual Obligations – Representations and Warranties* in the MD&A on page 42 and *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements.

Failure to satisfy our obligations as servicer for residential mortgage securitizations and residential mortgage loans owned by other entities, along with other losses we could incur in our capacity as servicer, could harm our reputation, increase servicing costs or adversely impact our results of operations.

We and our legacy companies service mortgage loans on behalf of third-party securitization vehicles and other investors. If we commit a material breach of our obligations as servicer or master servicer, we may be subject to termination if the breach is not cured within a specified period of time following notice, which could cause us to lose servicing income. In addition, we may have liability for any failure by us, as a servicer or master servicer, for any act or omission on our part that involves willful misfeasance, bad faith, gross negligence or reckless disregard of our duties. If any such breach was found to have occurred, it may harm our reputation, increase our servicing costs or adversely impact our results of operations. Additionally, with respect to foreclosures, we may incur costs or losses due to irregularities in the underlying documentation, or if the validity of a foreclosure action is challenged by a borrower or overturned by a court because of errors or deficiencies in the foreclosure process. We may also incur costs or losses relating to delays or alleged deficiencies in processing documents necessary to comply with state law governing foreclosure.

Changes in the structure of the GSEs and the relationship among the GSEs, the government and the private markets could result in changes to our business operations and may adversely impact our business.

During 2019, we sold approximately \$3.5 billion of loans to Fannie Mae (FNMA) and Freddie Mac (FHLMC). Each is currently in a conservatorship with its primary regulator, the Federal Housing

Finance Agency (FHFA), acting as conservator. In September 2019, the Treasury Department published a proposal to recapitalize FNMA and FHLMC and remove them from conservatorship as well as reduce GSEs' role in the marketplace. There can be no assurance that these proposals will be fully adopted, and it is not possible to predict when the conservatorships will end. If GSEs were to take a reduced role in the marketplace, including by limiting the mortgage products they offer, we could be required to seek alternative funding sources, retain additional loans on our balance sheet, secure funding through the Federal Home Loan Bank system, or securitize the loans through Private Label Securitization. Although the Treasury Department has released an administrative proposal and the FHFA has taken steps to unify underwriting parameters and create a common securitization platform, we cannot predict the prospects for the enactment, timing of the recapitalization or release from conservatorship or content of legislative or rulemaking proposals regarding the future status of the GSEs in the housing market. Accordingly, uncertainty regarding their future continues to exist.

Any of these developments could adversely affect the value of our securities portfolios, capital levels and liquidity and results of operations.

Our risk management framework may not be effective in mitigating risk and reducing the potential for losses.

Our risk management framework is designed to minimize risk and loss to us. We seek to effectively and consistently identify, measure, monitor, report and control the types of risk to which we are subject, including strategic, credit, market, liquidity, compliance, operational and reputational risks. While we employ a broad and diversified set of controls and risk mitigation techniques, including modeling and forecasting, hedging strategies and techniques that seek to balance our ability to profit from trading positions with our exposure to potential losses, our ability to control and mitigate risks that result in losses is inherently limited by our ability to identify all risks, including emerging and unknown risks, anticipate the timing of risks, apply effective hedging strategies, make correct assumptions, manage and aggregate data correctly and efficiently, and develop risk management models to assess and control risk.

Our ability to manage risk is limited by our ability to consistently execute all elements of our risk management program and develop and maintain a culture of managing risk well throughout the Corporation and manage risks associated with third parties, their downstream service providers, and vendors, to enable effective risk management and ensure that risks are appropriately considered, evaluated and responded to in a timely manner. Uncertain economic conditions, heightened legislative and regulatory scrutiny of and change within the financial services industry, the pace of technological changes, accounting and market developments, the failure of employees to comply with policies, values and our risk framework and the overall complexity of our operations, among other developments, may result in a heightened level of risk for us. Accordingly, we could suffer losses as a result of our failure to manage change or properly anticipate, manage, control or mitigate risks.

For more information about our risk management policies and procedures, see Managing Risk in the MD&A on page 42.

Regulatory, Compliance and Legal

We are subject to comprehensive government legislation and regulations, both domestically and internationally, which impact our operating costs and could require us to make changes to our operations. Additionally, we are subject to certain settlements, orders and agreements with government authorities from time to

time, which could increase our compliance and operational risks and costs.

We are subject to comprehensive regulation under federal and state laws in the U.S. and the laws of the various jurisdictions in which we operate, including increasing and complex economic sanctions regimes. These laws and regulations significantly affect and have the potential to restrict the scope of our existing businesses, limit our ability to pursue certain business opportunities, including the products and services we offer, reduce certain fees and rates or make our products and services more expensive for clients and customers.

We continue to make adjustments to our business and operations, legal entity structure and capital and liquidity management policies, procedures and controls to comply with currently effective laws and regulations, as well as final rulemaking, guidance and interpretation by regulatory authorities, including the Department of Treasury, Federal Reserve, OCC, CFPB, Financial Stability Oversight Council, FDIC, Department of Labor, SEC and CFTC in the U.S. and foreign regulators and other government authorities. Further, we could become subject to future regulatory requirements beyond those currently proposed, adopted or contemplated, including rulemaking related to the Financial Reform Act and the U.K.'s exit from the EU. The cumulative effect of all of the legislation and regulations on our business, operations and profitability remains uncertain. This uncertainty necessitates that in our business planning we make certain assumptions with respect to the scope and requirements of the proposed rules. If these assumptions prove incorrect, we could be subject to increased regulatory and compliance risks and costs as well as potential reputational harm. In addition, U.S. and international regulatory initiatives may overlap, and non-U.S. regulations and initiatives may be inconsistent or may conflict with current or proposed U.S. regulations, which could lead to compliance risks and increased costs.

Our regulators' prudential and supervisory authority gives them broad power and discretion to direct our actions, and they have assumed an active oversight, inspection and investigatory role across the financial services industry. However, regulatory focus is not limited to laws and regulations applicable to the financial services industry specifically, but also extends to other significant laws and regulations that apply across industries and jurisdictions, including those related to data management and privacy, anti-money laundering, anti-corruption and economic sanctions. Additionally, we are subject to laws, rules and regulations in the U.S. and abroad, including GDPR and CCPA, regarding compliance with our privacy policies and the disclosure, collection, use, sharing and safeguarding of personal identifiable information of certain parties, such as our employees, customers, suppliers, counterparties and other third parties, the violation of which could result in litigation, regulatory fines and enforcement actions. Additionally, we will likely be subject to new and evolving data privacy laws in the U.S. and abroad, which could result in additional costs of compliance, litigation, regulatory fines and enforcement actions.

As part of their enforcement authority, our regulators and other government authorities have the authority to, among other things, assess significant civil or criminal monetary penalties or restitution and issue cease and desist or removal orders and initiate injunctive actions. The amounts paid by us and other financial institutions to settle proceedings or investigations have, in some instances, been substantial and may increase. In some cases, governmental authorities have required criminal pleas or other extraordinary terms as part of such resolutions, which could have significant consequences, including reputational harm, loss of customers, restrictions on the ability to access capital markets, and the

inability to operate certain businesses or offer certain products for a period of time.

The Corporation and the conduct of its employees and representatives are subject to regulatory scrutiny across jurisdictions. Additionally, the complexity of the federal and state regulatory and enforcement regimes in the U.S., coupled with the global scope of our operations and the aggressiveness of the regulatory environment worldwide also means that a single event or practice or a series of related events or practices may give rise to a significant number of overlapping investigations and regulatory proceedings, either by multiple federal and state agencies in the U.S. or by multiple regulators and other governmental entities in different jurisdictions. Additionally, actions by other members of the financial services industry related to business activities in which we participate may result in investigations by regulators or other government authorities. Responding to inquiries, investigations, lawsuits and proceedings, regardless of the ultimate outcome of the matter, is time-consuming and expensive and can divert the attention of our senior management from our business. The outcome of such proceedings, which may last a number of years, may be difficult to predict or estimate until late in the proceedings.

We are currently subject to the terms of settlements, orders and agreements that we have entered into with government entities and regulatory authorities and may become subject to additional settlements, orders or agreements in the future. Such settlements, orders or agreements can impose significant operational and compliance costs on us as they typically require us to enhance our procedures and controls, expand our risk and control functions within our lines of business, invest in technology and hire significant numbers of additional risk, control and compliance personnel. Moreover, if we fail to meet the requirements of the regulatory settlements, orders or agreements to which we are subject, or, more generally, fail to maintain risk and control procedures and processes that meet the heightened standards established by our regulators and other government authorities, we could be required to enter into further settlements, orders or agreements and pay additional fines, penalties or judgments, or accept material regulatory restrictions on our businesses.

While we believe that we have adopted appropriate risk management and compliance programs to identify, assess, monitor and report on applicable laws, policies and procedures, compliance risks will continue to exist, particularly as we adapt to new and evolving laws, rules and regulations. Additionally, changing U.S. fiscal, monetary and regulatory policies arising from potential changes to the U.S. presidential administration and Congress result in ongoing regulatory uncertainties. There is no guarantee that our risk management and compliance programs will be consistently executed to successfully manage compliance risk. We also rely upon third parties who may expose us to compliance and legal risk. Future legislative or regulatory actions, and any required changes to our business or operations, or those of third parties, including their downstream providers, upon whom we rely, resulting from such developments and actions could result in a significant loss of revenue, impose additional compliance and other costs or otherwise reduce our profitability, limit the products and services that we offer or our ability to pursue certain business opportunities, require us to dispose of or curtail certain businesses, affect the value of assets that we hold, require us to increase our prices and therefore reduce demand for our products, or otherwise adversely affect our businesses. In addition, legal and regulatory proceedings and other contingencies will arise from time to time that may result in fines, regulatory sanctions, penalties, equitable relief and changes to our business practices. As a result, we are and will continue to be subject to heightened

compliance and operating costs that could adversely affect our results of operations.

We are subject to significant financial and reputational risks from potential liability arising from lawsuits and regulatory and government action.

We face significant legal risks in our business, and the volume of claims and amount of damages, penalties and fines claimed in litigation and other disputes, and regulatory and government proceedings against us and other financial institutions continue to be high. Greater than expected litigation and investigation costs, substantial legal liability or significant regulatory or government action against us could have adverse effects on our business, financial condition, including liquidity, and results of operations, and/or cause significant reputational harm to us. We continue to experience a significant volume of litigation and other disputes, including claims for contractual indemnification with counterparties regarding relative rights and responsibilities. Consumers, clients and other counterparties continue to be litigious. Among other things, financial institutions, including us, continue to be the subject of claims alleging anti-competitive conduct with respect to various products and markets, including U.S. antitrust class actions claiming joint and several liability for treble damages. In addition, regulatory authorities have had a supervisory focus on enforcement, including in connection with alleged violations of law and customer harm. For example, U.S. regulators and government agencies have pursued claims against financial institutions under the Financial Institutions Reform, Recovery, and Enforcement Act, False Claims Act, Equal Credit Opportunity Act, Fair Housing Act and antitrust laws. Such claims may carry significant and, in certain cases, treble damages. The global environment of extensive regulation, regulatory compliance burdens, litigation and regulatory and government enforcement, combined with uncertainty related to the continually evolving regulatory environment, may affect operational and compliance costs and risks, which may limit or cease our ability to continue providing certain products and services.

Additionally, misconduct by employees, including improper or illegal conduct, or other unfair, deceptive, abusive or discriminatory business practices, can cause significant reputational harm as well as litigation and regulatory government enforcement action.

For more information on litigation and regulatory matters, see *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements.

U.S. federal banking agencies may require us to increase our regulatory capital, TLAC, long-term debt or liquidity requirements, which could result in the need to issue additional qualifying securities or to take other actions, such as to sell company assets.

We are subject to U.S. regulatory capital and liquidity rules. These rules, among other things, establish minimum requirements to qualify as a well-capitalized institution. If any of our subsidiary insured depository institutions fails to maintain its status as well capitalized under the applicable regulatory capital rules, the Federal Reserve will require us to agree to bring the insured depository institution back to well-capitalized status. For the duration of such an agreement, the Federal Reserve may impose restrictions on our activities. If we were to fail to enter into or comply with such an agreement, or fail to comply with the terms of such agreement, the Federal Reserve may impose more severe restrictions on our activities, including requiring us to cease and desist activities permitted under the Bank Holding Company Act of 1956.

Capital and liquidity requirements are frequently introduced and amended. It is possible that regulators may increase regulatory capital requirements including TLAC and long-term debt requirements, change how regulatory capital is calculated or

increase liquidity requirements. Our G-SIB surcharge may increase from current estimates, and we are also subject to a countercyclical capital buffer which, while currently set at zero, may be increased by regulators. In 2018, the Federal Reserve issued a proposal to implement a stress capital buffer into its capital requirements, which may increase our regulatory capital requirements, if adopted. A significant component of regulatory capital ratios is calculating our risk-weighted assets and our leverage exposure, which may increase. The Basel Committee on Banking Supervision has also revised several key methodologies for measuring risk-weighted assets, including a standardized approach for credit risk, standardized approach for operational risk and constraints on the use of internal models, as well as a capital floor based on the revised standardized approaches. U.S. banking regulators may update the U.S. Basel 3 rules to incorporate the Basel Committee revisions.

Additionally, Net Stable Funding Ratio requirements have been proposed, which would apply to us and our subsidiary depository institutions, and target longer term liquidity risk. While the impact of these proposals remains uncertain, they could have a negative impact on our capital and liquidity positions. In 2019, U.S. banking regulators published a final rule outlining a standardized approach for counterparty credit risk, which updates the calculation of the exposure amount for derivative contracts under the regulatory capital rule. The final rule will be effective on April 1, 2020, with a mandatory compliance date of January 1, 2022. This rule could have a negative impact on our capital position upon final implementation.

As part of its annual CCAR, the Federal Reserve conducts stress testing on parts of our business using hypothetical economic scenarios prepared by the Federal Reserve. Those scenarios may affect our CCAR stress test results, which may have an effect on our projected regulatory capital amounts in the annual CCAR submission, including the CCAR capital plan affecting our dividends and stock repurchases. Such ability to return capital to our shareholders substantially depends on the Federal Reserve's response to our annual CCAR submission. To the extent that the Federal Reserve objects to our annual CCAR submission or objects to the amount of dividends or stock repurchases proposed, our shareholder returns could decrease.

Changes to and compliance with the regulatory capital and liquidity requirements may impact our operations by requiring us to liquidate assets, increase borrowings, issue additional equity or other securities, cease or alter certain operations, sell company assets or hold highly liquid assets, which may adversely affect our results of operations. We may be prohibited from taking capital actions such as paying or increasing dividends, or repurchasing securities if the Federal Reserve objects to our CCAR capital plan.

For more information, see *Capital Management – Regulatory Capital* in the MD&A on page 46 and *Note 17 – Regulatory Requirements and Restrictions* to the Consolidated Financial Statements.

Changes in accounting standards or assumptions in applying accounting policies could adversely affect us.

Our accounting policies and methods are fundamental to how we record and report our financial condition and results of operations. Some of these policies require use of estimates and assumptions that may affect the reported value of our assets or liabilities and results of operations and are critical because they require management to make difficult, subjective and complex judgments about matters that are inherently uncertain. If those assumptions, estimates or judgments were incorrectly made, we could be required to correct and restate prior-period financial statements. Accounting standard-setters and those who interpret the accounting standards, the SEC, banking regulators and our

independent registered public accounting firm may also amend or even reverse their previous interpretations or positions on how various standards should be applied. These changes may be difficult to predict and could impact how we prepare and report our financial statements. In some cases, we could be required to apply a new or revised standard retrospectively, resulting in us revising prior-period financial statements. For more information on some of our critical accounting policies and recent accounting changes, see *Complex Accounting Estimates* in the MD&A on page 77 and *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements.

We may be adversely affected by changes in U.S. and non-U.S. tax laws and regulations.

In December 2017, the President signed into law the Tax Cuts and Jobs Act (the Tax Act) which made significant changes to federal income tax law including, among other things, reducing the statutory corporate income tax rate to 21 percent from 35 percent and changing the taxation of our non-U.S. business activities.

In addition, we have U.K. net deferred tax assets which consist primarily of net operating losses that are expected to be realized by certain subsidiaries over an extended number of years. Adverse developments with respect to tax laws or to other material factors, such as prolonged worsening of Europe's capital markets or changes in the ability of our U.K. subsidiaries to conduct business in the EU, could lead our management to reassess and/or change its current conclusion that no valuation allowance is necessary with respect to our U.K. net deferred tax assets.

It is possible that governmental authorities in the U.S. and/or other countries could further amend tax laws in a way that would adversely affect us, including the possibility that aspects of the Tax Act could be amended in the future.

Reputation

Damage to our reputation could harm our businesses, including our competitive position and business prospects.

Our ability to attract and retain customers, clients, investors and employees is impacted by our reputation. Harm to our reputation can arise from various sources, including officer, director or employee misconduct, unethical behavior, security breaches, litigation or regulatory outcomes, compensation practices, the suitability or reasonableness of recommending particular trading or investment strategies, including the reliability of our research and models, and prohibiting clients from engaging in certain transactions and sales practices. Additionally, our reputation may be harmed by failing to deliver products, subpar standards of service and quality expected by our customers, clients and the community, compliance failures, the inability to manage technology change or maintain effective data management, cyber incidents, inadequacy of responsiveness to internal controls, unintended disclosure of personal, proprietary or confidential information, perception of our environmental, social and governance practices and disclosures, conflicts of interest and breach of fiduciary obligations, and the activities of our clients, customers, counterparties and third parties, including vendors. Actions by the financial services industry generally or by certain members or individuals in the industry also can adversely affect our reputation. In addition, adverse publicity or negative information posted on social media by employees, the media or otherwise, whether or not factually correct, may adversely impact our business prospects or financial results.

We are subject to complex and evolving laws and regulations regarding privacy, know-your-customer requirements, data protection, including the GDPR and CCPA, cross-border data movement and other matters. Principles concerning the appropriate scope of consumer and commercial privacy vary

considerably in different jurisdictions, and regulatory and public expectations regarding the definition and scope of consumer and commercial privacy may remain fluid. It is possible that these laws may be interpreted and applied by various jurisdictions in a manner inconsistent with our current or future practices, or that is inconsistent with one another. If personal, confidential or proprietary information of customers or clients in our possession, or in the possession of third parties, including their downstream service providers or financial data aggregators, is mishandled, misused or mismanaged, or if we do not timely or adequately address such information, we may face regulatory, reputational and operational risks which could have an adverse effect on our financial condition and results of operations.

We could suffer reputational harm if we fail to properly identify and manage potential conflicts of interest. Management of potential conflicts of interests has become increasingly complex as we expand our business activities through more numerous transactions, obligations and interests with and among our clients. The failure to adequately address, or the perceived failure to adequately address, conflicts of interest could affect the willingness of clients to use our products and services, or give rise to litigation or enforcement actions, which could adversely affect our business.

Our actual or perceived failure to address these and other issues, such as operational risks, gives rise to reputational risk that could harm us and our business prospects. Failure to appropriately address any of these issues could also give rise to additional regulatory restrictions, legal risks and reputational harm, which could, among other consequences, increase the size and number of litigation claims and damages asserted or subject us to enforcement actions, fines and penalties, and cause us to incur related costs and expenses. For more information on reputational risk, see Reputational Risk Management in the MD&A on page 77.

Other

We face significant and increasing competition in the financial services industry.

We operate in a highly competitive environment and experience intense competition from local and global financial institutions as well as new entrants, in both domestic and foreign markets, in which we compete on the basis of a number of factors, including customer service, quality and range of products and services offered, technology, price, reputation, interest rates on loans and deposits, lending limits and customer convenience. Additionally, the changing regulatory environment may create competitive disadvantages for us given geography-driven capital and liquidity requirements. For example, U.S. regulators have in certain instances adopted stricter capital and liquidity requirements than those applicable to non-U.S. institutions. To the extent we expand into new business areas and new geographic regions, we may face competitors with more experience and more established relationships with clients, regulators and industry participants in the relevant market, which could adversely affect our ability to compete.

In addition, emerging technologies and advances and the growth of e-commerce have lowered geographic and monetary barriers of other financial institutions, made it easier for non-depository institutions to offer products and services that traditionally were banking products and allowed non-traditional financial service providers and technology companies to compete with traditional financial service companies in providing electronic and internet-based financial solutions and services, including electronic securities trading, marketplace lending, financial data aggregation and payment processing, including real-time payment

platforms. Further, clients may choose to conduct business with other market participants who engage in business or offer products in areas we deem speculative or risky, such as cryptocurrencies. Increased competition may negatively affect our earnings by creating pressure to lower prices or credit standards on our products and services requiring additional investment to improve the quality and delivery of our technology and/or reducing our market share, or affecting the willingness of our clients to do business with us.

Our inability to adapt our products and services to evolving industry standards and consumer preferences could harm our business.

Our business model is based on a diversified mix of businesses that provide a broad range of financial products and services, delivered through multiple distribution channels. Our success depends on our, and our third-party vendors', ability to adapt and develop products, services and technology to rapidly evolving industry standards and consumer preferences. There is increasing pressure by competitors to provide products and services on more attractive terms, including higher interest rates on deposits, and offer lower cost investment strategies, which may impact our ability to grow revenue and/or effectively compete. Additionally, legislative and regulatory developments may affect the competitive landscape. Further, the competitive landscape may be impacted by the growth of non-depository institutions that offer traditional banking products at higher rates or with no fees, or otherwise offer alternative products. This can reduce our net interest margin and revenues from our fee-based products and services, either from a decrease in the volume of transactions or through a compression of spreads.

In addition, the widespread adoption and rapid evolution of new technologies, including analytic capabilities, self-service digital trading platforms, internet services, distributed ledgers, such as the blockchain system, cryptocurrencies and payment systems, could require substantial expenditures to modify or adapt our existing products and services as we grow and develop our online and mobile banking channel strategies in addition to remote connectivity solutions. We may not be as timely or successful in developing or introducing new products and services, integrating new products or services into our existing offerings, responding or adapting to changes in consumer behavior, preferences, spending, investing and/or saving habits, achieving market acceptance of our products and services, reducing costs in response to pressures to deliver products and services at lower prices or sufficiently developing and maintaining loyal customers. Our or our third-party vendors' inability to adapt products and services to evolving industry standards and consumer preferences could harm our business and adversely affect our results of operations and reputation.

Our ability to attract and retain qualified employees is critical to the success of our business and failure to do so could hurt our business prospects and competitive position.

Our performance is heavily dependent on the talents and efforts of highly skilled individuals. Competition for qualified personnel within the financial services industry and from businesses outside the financial services industry is intense. Our competitors include non-U.S. based institutions and institutions subject to different compensation and hiring regulations than those imposed on U.S. institutions and financial institutions.

In order to attract and retain qualified personnel, we must provide market-level compensation. As a large financial and banking institution, we may be subject to limitations on compensation practices (which may or may not affect our competitors) by the Federal Reserve, the OCC, the FDIC and other regulators around the world. EU and U.K. rules limit and subject

to clawback certain forms of variable compensation for senior employees. Current and potential future limitations on executive compensation imposed by legislation or regulation could adversely affect our ability to attract and maintain qualified employees. Furthermore, a substantial portion of our annual incentive compensation paid to our senior employees has in recent years taken the form of long-term equity-based awards. Therefore, the ultimate value of this compensation depends on the price of our common stock when the awards vest. If we are unable to continue to attract and retain qualified individuals, our business prospects and competitive position could be adversely affected.

We could suffer operational, reputational and financial harm if our models and strategies fail to properly anticipate and manage risk.

We use proprietary models and strategies extensively to forecast losses, project revenue, measure and assess capital requirements for credit, country, market, operational and strategic risks and assess and control our operations and financial condition. These models require oversight, including independent validation before initial use, ongoing monitoring through outcomes analysis and benchmarking, and periodic revalidation. Models are subject to inherent limitations due to the use of historical trends and simplifying assumptions, uncertainty regarding economic and financial outcomes, and emerging risks from the use of applications that rely on artificial intelligence.

Our models and strategies may not be sufficiently predictive of future results due to limited historical patterns, extreme or unanticipated market movements or customer behavior and illiquidity, especially during severe market downturns or stress events, which could limit their effectiveness. The models that we use to assess and control our market risk exposures also reflect assumptions about the degree of correlation among prices of various asset classes or other market indicators, which may not be representative of the next downturn and would magnify the limitations inherent in using historical data to manage risk. Our models may not be effective if we fail to properly oversee them and detect their flaws during our review and monitoring processes, they contain erroneous data, assumptions, valuations, formulas or algorithms or our applications running the models do not perform as expected. Regardless of the steps we take to ensure effective controls, governance, monitoring and testing, and implement new technology and automated processes, we could suffer operational, reputational and financial harm if models and strategies fail to properly anticipate and manage current and evolving risks.

Failure to properly manage and aggregate data may result in our inability to manage risk and business needs, errors in our day-to-day operations, critical reporting and strategic decision-making and inaccurate financial, regulatory and operational reporting.

We rely on our ability to manage, aggregate, interpret and use data in an accurate, timely and complete manner for effective risk reporting and management. Our policies, programs, processes and practices govern how data is managed, aggregated, interpreted and used. While we continuously update our policies, programs, processes and practices and implement emerging technologies, such as automation, artificial intelligence and robotics, our data management and aggregation processes are subject to failure, including human error, system failure or failed controls. Failure to maintain and manage data and information effectively and to aggregate data and information in an accurate, timely and complete manner may impact its quality and reliability and limit our ability to manage current and emerging risk, to produce accurate financial, regulatory and operational reporting, as well as to manage changing business needs, strategic decision-making and day-to-day operations. The failure to establish and maintain

effective, efficient and controlled data management could have an adverse impact on our ability to develop our products and relationships with our customers and damage our reputation.

Reforms to and uncertainty regarding IBORs, including the London Interbank Offered Rate (LIBOR), and certain other rates or indices may adversely affect our business, financial condition and results of operations and could result in reputational harm to the Corporation.

In 2017, the U.K. FCA announced that it will no longer persuade or require participating banks to submit rates for LIBOR after 2021. The continuation of LIBOR on the current basis cannot be guaranteed after 2021, and there is substantial risk that LIBOR will be modified by 2021 or discontinued thereafter. This announcement, in conjunction with financial benchmark reforms and changes in short-term interbank lending markets more generally, have resulted in significant uncertainty about the potential or actual discontinuation of IBORs, including LIBOR, and certain other rates or indices that serve as “benchmarks.” Such benchmarks are used extensively in the global financial markets and in our business. In particular, LIBOR is used in many of our products and contracts, including mortgages, consumer, commercial and corporate loans, derivatives, floating-rate notes and other adjustable-rate products and financial instruments. The aggregate notional amount of these products and contracts is material to our business. These reforms and actions may result in significant uncertainty as to future rules or methodologies used to calculate benchmarks, cause new or reformed benchmarks to perform differently from the discontinued benchmarks they are replacing, cause existing benchmarks to disappear or become unavailable or unrepresentative, or have other consequences that cannot be fully anticipated, which expose us to various financial, operational and legal risks.

Certain ARRs have been proposed to replace LIBOR and other IBORs. For example, the Alternative Reference Rates Committee, a group of private-market participants and official-sector entities convened by the Federal Reserve Board and the Federal Reserve Bank of New York, has recommended that the Secured Overnight Financing Rate (SOFR) replace U.S. dollar LIBOR. However, the market transition from IBORs to ARRs is complex and pervasive throughout a number of different types of products and global financial markets. There can be no assurance that ARRs will be adequate alternatives to IBORs, that existing assets and liabilities based on or linked to IBORs will transition successfully to ARRs, of the timing of adoption and degree of integration and acceptance of such ARRs in the global financial markets, or of the future availability or representativeness of such ARRs. Our products and contracts that reference IBORs, in particular LIBOR, may contain language that determines when a successor rate including the ARR and/or the applicable spread adjustment to the designated rate (including IBORs) would be selected or determined. If a trigger is satisfied, our products and contracts may give the calculation agent (which may be us) discretion over the successor rate to be selected. The considerable uncertainty as to how the financial services industry will address the discontinuation of IBORs and/or such IBORs ceasing to be acceptable reference rates in financial instruments could ultimately result in client disputes and litigation surrounding the proper interpretation of our IBOR-based products and contracts. Accordingly, uncertainty regarding ARRs may continue to impact our business, operations and financial condition repeatedly and indefinitely.

The discontinuation of IBORs, including LIBOR, will require us to remediate IBOR-based products and contracts, including related hedging arrangements, that mature after the discontinuation date of the IBOR. These changes may adversely affect the yield on loans or securities held by us, amounts paid on securities we have

issued, amounts received and paid on derivatives we have entered into, the value of such loans, securities or derivative instruments, the trading market for such products and contracts, and our ability to effectively use hedging instruments to manage risk. While some of these outstanding IBOR-based products and contracts include fallback provisions to ARRs, some of our outstanding IBOR-based products and contracts do not include fallback provisions or adequate fallback mechanisms requiring remediation to modify their terms. Additionally, some outstanding IBOR-based products and contracts are particularly challenging to modify due to the requirement that all impacted parties consent to such modification.

In light of the extensive use of IBOR-based products and contracts by us and other market participants, there can be no assurance that we and other market participants will be able to successfully modify all outstanding IBOR-based products and contracts or be adequately prepared for a discontinuation of an IBOR at the time such IBOR may cease to be published or otherwise discontinued. Also, there can be no assurance that existing or new provisions for successor rates in our IBOR-based products and contracts will include adequate methodologies for adjustments between the applicable IBOR and the corresponding successor rate or that the characteristics of the successor rates will be similar to or produce the economic equivalent of the benchmarks they seek to replace. For example, SOFR and other ARRs have compositions and characteristics that differ significantly from the benchmarks they may replace, have limited history, and may demonstrate less predictable performance over time than the benchmarks they replace.

Changes or uncertainty resulting from the market transition from IBORs to ARRs could adversely affect the return on and pricing, liquidity and value of outstanding IBOR-based products and contracts, cause significant market dislocations and

disruptions that are relevant to our business segments, particularly *Global Banking* and *Global Markets*, potentially increase the cost of and access to capital, increase the risk of litigation or other disputes, including in connection with the interpretation and enforceability of, or our historical marketing practices or disclosures with respect to, outstanding IBOR-based products and contracts with counterparties, and/or increase expenses related to the transition to ARRs, among other adverse consequences. Additionally, the process of transitioning to ARRs may result in increased costs and may also divert management time and attention from other areas of our business.

The market transition from IBORs to ARRs may also alter our risk profile and risk management strategies, including derivatives and hedging strategies, modeling and analytics, valuation tools, product design and systems, controls, procedures and operational infrastructure. This may prove challenging given the limited history of many of the proposed ARRs and may increase the costs and risks related to potential regulatory compliance, requirements or inquiries. Among other risks, various products and contracts may transition to ARRs at different times or in different manners, with the result that we may face significant unexpected interest rate, pricing or other exposures across business or product lines. Reforms to and uncertainty regarding market transition from current IBORs to ARRs and other factors, including the pace of the transition to ARRs, the specific terms and parameters for market acceptance of any ARRs, prices of and liquidity of trading markets for products based on ARRs, and our ability to transition and develop appropriate systems and analytics for one or more ARRs, may adversely affect our business, including the ability to serve customers and maintain market share, financial condition or results of operations and could result in reputational harm to the Corporation.

Item 1B. Unresolved Staff Comments

None

Item 2. Properties

As of December 31, 2019, certain principal offices and other materially important properties consisted of the following:

Facility Name	Location	General Character of the Physical Property	Primary Business Segment	Property Status	Property Square Feet (1)
Bank of America Corporate Center	Charlotte, NC	60 Story Building	Principal Executive Offices	Owned	1,212,177
Bank of America Tower at One Bryant Park	New York, NY	55 Story Building	GWIM, Global Banking and Global Markets	Leased (2)	1,836,575
Bank of America Financial Centre	London, UK	4 Building Campus	Global Banking and Global Markets	Leased	562,595
Cheung Kong Center	Hong Kong	62 Story Building	Global Banking and Global Markets	Leased	149,790

(1) For leased properties, property square feet represents the square footage occupied by the Corporation.

(2) The Corporation has a 49.9 percent joint venture interest in this property.

We own or lease approximately 76.3 million square feet in over 20,000 facility and ATM locations globally, including approximately 70.7 million square feet in the U.S. (all 50 states and the District of Columbia, the U.S. Virgin Islands, Puerto Rico and Guam) and approximately 5.6 million square feet in more than 35 countries.

We believe our owned and leased properties are adequate for our business needs and are well maintained. We continue to evaluate our owned and leased real estate and may determine from time to time that certain of our premises and facilities, or ownership structures, are no longer necessary for our operations. In connection therewith, we are evaluating the sale or sale/leaseback of certain properties and we may incur costs in connection with any such transactions.

Item 3. Legal Proceedings

See Litigation and Regulatory Matters in *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements, which is incorporated herein by reference.

Item 4. Mine Safety Disclosures

None

Part II

Bank of America Corporation and Subsidiaries

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

The principal market on which our common stock is traded is the New York Stock Exchange under the symbol "BAC." As of February 18, 2020, there were 161,882 registered shareholders of common stock.

The table below presents share repurchase activity for the three months ended December 31, 2019. The primary source of funds for cash distributions by the Corporation to its shareholders is

dividends received from its bank subsidiaries. Each of the bank subsidiaries is subject to various regulatory policies and requirements relating to the payment of dividends, including requirements to maintain capital above regulatory minimums. All of the Corporation's preferred stock outstanding has preference over the Corporation's common stock with respect to payment of dividends.

(Dollars in millions, except per share information; shares in thousands)

	Total Common Shares Purchased (1)	Weighted-Average Per Share Price	Total Shares Purchased as Part of Publicly Announced Programs	Remaining Buyback Authority Amounts (2)
October 1 - 31, 2019	97,540	\$ 29.50	97,538	\$ 20,442
November 1 - 30, 2019	74,649	32.75	74,649	17,997
December 1 - 31, 2019	70,943	34.19	70,940	15,571
Three months ended December 31, 2019	243,132	31.87	243,127	

(1) Includes shares of the Corporation's common stock acquired by the Corporation in connection with satisfaction of tax withholding obligations on vested restricted stock or restricted stock units and certain forfeitures and terminations of employment-related awards and for potential re-issuance to certain employees under equity incentive plans.

(2) On June 27, 2019, following the Board of Governors of the Federal Reserve System's non-objection to the Corporation's 2019 Comprehensive Capital Analysis and Review capital plan, the Corporation's Board of Directors (Board) authorized the repurchase of approximately \$30.9 billion in common stock from July 1, 2019 through June 30, 2020, which includes approximately \$900 million to offset shares awarded under equity-based compensation plans during the same period. During the three months ended December 31, 2019, pursuant to the Board's authorization, the Corporation repurchased \$7.7 billion of common stock, which included common stock to offset equity-based compensation awards. For more information, see Capital Management - CCAR and Capital Planning in the MD&A on page 45 and Note 14 - Shareholders' Equity to the Consolidated Financial Statements.

The Corporation did not have any unregistered sales of equity securities during the three months ended December 31, 2019.

Item 6. Selected Financial Data

See Tables 6 and 7 in the MD&A beginning on page 28, which are incorporated herein by reference.

Item 7. Bank of America Corporation and Subsidiaries

Management's Discussion and Analysis of Financial Condition and Results of Operations

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Management's Discussion and Analysis of Financial Condition and Results of Operations

Bank of America Corporation (the "Corporation") and its management may make certain statements that constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. These statements can be identified by the fact that they do not relate strictly to historical or current facts. Forward-looking statements often use words such as "anticipates," "targets," "expects," "hopes," "estimates," "intends," "plans," "goals," "believes," "continue" and other similar expressions or future or conditional verbs such as "will," "may," "might," "should," "would" and "could." Forward-looking statements represent the Corporation's current expectations, plans or forecasts of its future results, revenues, expenses, efficiency ratio, capital measures, strategy and future business and economic conditions more generally, and other future matters. These statements are not guarantees of future results or performance and involve certain known and unknown risks, uncertainties and assumptions that are difficult to predict and are often beyond the Corporation's control. Actual outcomes and results may differ materially from those expressed in, or implied by, any of these forward-looking statements.

You should not place undue reliance on any forward-looking statement and should consider the following uncertainties and risks, as well as the risks and uncertainties more fully discussed under Item 1A. Risk Factors of this Annual Report on Form 10-K: the Corporation's potential claims, damages, penalties, fines and reputational damage resulting from pending or future litigation, regulatory proceedings and enforcement actions; the possibility that the Corporation's future liabilities may be in excess of its recorded liability and estimated range of possible loss for litigation, regulatory and representations and warranties exposures; the possibility that the Corporation could face increased servicing, fraud, indemnity, contribution or other claims from one or more counterparties, including trustees, purchasers of loans, underwriters, issuers, monolines, private-label and other investors, or other parties involved in securitizations; the Corporation's ability to resolve representations and warranties repurchase and related claims, including claims brought by investors or trustees seeking to avoid the statute of limitations for repurchase claims; the risks related to the discontinuation of the London Interbank Offered Rate and other reference rates, including increased expenses and litigation and the effectiveness of hedging strategies; uncertainties about the financial stability and growth rates of non-U.S. jurisdictions, the risk that those jurisdictions may face difficulties servicing their sovereign debt, and related stresses on financial markets, currencies and trade, and the Corporation's exposures to such risks, including direct, indirect and operational; the impact of U.S. and global interest rates, inflation, currency exchange rates, economic conditions, trade policies and tensions, including tariffs, and potential geopolitical instability; the impact of the interest rate environment on the Corporation's business, financial condition and results of operations; the possibility that future credit losses may be higher than currently expected due to changes in economic assumptions, customer behavior, adverse developments with respect to U.S. or global economic conditions and other uncertainties; the Corporation's ability to achieve its expense targets and expectations regarding net interest income, provision for credit losses, net charge-offs, effective tax rate, loan growth or other projections; adverse changes to the Corporation's credit ratings from the major credit rating agencies; an inability to access capital markets or maintain deposits or borrowing costs; estimates of the fair value and other accounting values, subject to impairment assessments, of certain of the Corporation's assets and liabilities; the estimated or actual impact of changes in accounting standards or assumptions in applying those standards; uncertainty regarding the content, timing and

impact of regulatory capital and liquidity requirements; the impact of adverse changes to total loss-absorbing capacity requirements and/or global systemically important bank surcharges; the potential impact of actions of the Board of Governors of the Federal Reserve System on the Corporation's capital plans; the effect of regulations, other guidance or additional information on the impact from the Tax Cuts and Jobs Act; the impact of implementation and compliance with U.S. and international laws, regulations and regulatory interpretations, including, but not limited to, recovery and resolution planning requirements, Federal Deposit Insurance Corporation assessments, the Volcker Rule, fiduciary standards and derivatives regulations; a failure or disruption in or breach of the Corporation's operational or security systems or infrastructure, or those of third parties, including as a result of cyber attacks or campaigns; the impact on the Corporation's business, financial condition and results of operations from the United Kingdom's exit from the European Union; the impact of any future federal government shutdown and uncertainty regarding the federal government's debt limit; the impact of natural disasters, the emergence of widespread health emergencies or pandemics, military conflict, terrorism or other geopolitical events; and other matters.

Forward-looking statements speak only as of the date they are made, and the Corporation undertakes no obligation to update any forward-looking statement to reflect the impact of circumstances or events that arise after the date the forward-looking statement was made.

Notes to the Consolidated Financial Statements referred to in the Management's Discussion and Analysis of Financial Condition and Results of Operations (MD&A) are incorporated by reference into the MD&A. Certain prior-year amounts have been reclassified to conform to current-year presentation. Throughout the MD&A, the Corporation uses certain acronyms and abbreviations which are defined in the Glossary.

Executive Summary

Business Overview

The Corporation is a Delaware corporation, a bank holding company (BHC) and a financial holding company. When used in this report, "the Corporation," "we," "us" and "our" may refer to Bank of America Corporation individually, Bank of America Corporation and its subsidiaries, or certain of Bank of America Corporation's subsidiaries or affiliates. Our principal executive offices are located in Charlotte, North Carolina. Through our banking and various nonbank subsidiaries throughout the U.S. and in international markets, we provide a diversified range of banking and nonbank financial services and products through four business segments: *Consumer Banking*, *Global Wealth & Investment Management (GWIM)*, *Global Banking and Global Markets*, with the remaining operations recorded in *All Other*. We operate our banking activities primarily under the Bank of America, National Association (Bank of America, N.A. or BANA) charter. At December 31, 2019, the Corporation had \$2.4 trillion in assets and a headcount of approximately 208,000 employees.

As of December 31, 2019, we served clients through operations across the U.S., its territories and approximately 35 countries. Our retail banking footprint covers approximately 90 percent of the U.S. population, and we serve approximately 66 million consumer and small business clients with approximately 4,300 retail financial centers, approximately 16,800 ATMs, and leading digital banking platforms (www.bankofamerica.com) with more than 38 million active users, including over 29 million active mobile users. We offer industry-leading support to approximately

three million small business owners. Our wealth management businesses, with client balances of \$3.0 trillion, provide tailored solutions to meet client needs through a full set of investment management, brokerage, banking, trust and retirement products. We are a global leader in corporate and investment banking and trading across a broad range of asset classes serving corporations, governments, institutions and individuals around the world.

Recent Developments

Capital Management

During 2019, we repurchased \$28.1 billion of common stock pursuant to the Corporation's Board of Directors' (the Board) repurchase authorizations. For more information, see Capital Management on page 45.

Merchant Services Joint Venture

A significant portion of our merchant processing activity is performed by a joint venture, formed in 2009, in which we own a 49 percent ownership interest. The joint venture is accounted for as an equity method investment. As previously disclosed in the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019, we gave notice on July 29, 2019 to the joint venture partner of the termination of the joint venture upon the conclusion of its current term, after which we expect to pursue our own merchant services strategy. In addition, the Corporation and the joint venture partner have an agreement to provide uninterrupted delivery of products and services to the joint venture merchants through at least June 2023. As a result of the above actions, we incurred a non-cash, pretax impairment charge of \$2.1 billion included in other general operating expense in the three months ended September 30, 2019. As stated above, the Corporation expects to pursue its own merchant services strategy, which is expected to begin in the third quarter of 2020. Under this strategy, we will begin to record the revenues and expenses from those operations in the Consolidated Statement of Income instead of recognizing our proportionate share of the joint venture's income under the equity method. For more information, see *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements.

U.K. Exit from the EU

On January 31, 2020, the U.K. formally exited the European Union (EU). Upon exit, a transition period began during which time the U.K. and the EU expect to negotiate a trade agreement and other terms associated with their future relationship. The transition period is scheduled to end on December 31, 2020.

We conduct business in Europe, the Middle East and Africa primarily through our subsidiaries in the U.K., Ireland and France. For information on the changes we have implemented to enable us to continue to operate in the region, including establishing a bank and broker-dealer in the EU, see the Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2019. While we have taken measures to minimize operational disruption and prepare for various potential outcomes of the U.K.'s withdrawal from the EU, the preparedness of our counterparties and the relevant financial markets infrastructure remain outside our control. The global economic impact of the U.K.'s withdrawal from the EU remains uncertain and could result in regional and global

financial market disruptions. We continue to assess potential risks, including operational, regulatory and legal risks.

LIBOR and Other Benchmark Rates

Following the 2017 announcement by the U.K.'s Financial Conduct Authority (FCA) that it will no longer persuade or require participating banks to submit rates for the London Interbank Offered Rate (LIBOR) after 2021, central banks and regulators around the world have commissioned working groups to find suitable replacements for Interbank Offered Rates (IBOR), including LIBOR, and other benchmark rates and to implement financial benchmark reforms more generally. The future discontinuance of IBORs is a complex process that has resulted in significant uncertainty regarding the transition to suitable alternative reference rates (ARRs) and could cause disruptions in a variety of global financial markets, as well as adversely impact our business, operations and financial results.

IBORs, including LIBOR, are used in many of the Corporation's products and contracts, including mortgages, consumer, commercial and corporate loans, derivatives, floating-rate notes and other adjustable-rate products and financial instruments. The aggregate notional amount of these products and contracts is material to our business. As previously disclosed, to facilitate an orderly transition from IBORs and other benchmark rates to ARRs, the Corporation has established an enterprise-wide initiative led by senior management. As part of this initiative, the Corporation continues to identify, assess and monitor risks associated with the expected discontinuation or unavailability of LIBOR and other benchmarks and evaluate and address documentation and contractual mechanics of outstanding IBOR-based products and contracts that mature after 2021 and new and potential future ARR-based products and contracts to achieve operational readiness. Additionally, the Corporation is continuing to evaluate potential regulatory, tax and accounting impacts of the transition, including guidance published and/or proposed by the Internal Revenue Service and Financial Accounting Standards Board, engage impacted clients in connection with the transition to ARRs and work actively with global regulators, industry working groups and trade associations to develop strategies for an effective transition to ARRs.

The Corporation is also modifying its operational models, systems, procedures and internal infrastructure to transition to ARRs. In 2019, the Corporation launched capabilities to support issuance and trading in products indexed to the new Secured Overnight Financing Rate (SOFR), which is the alternative benchmark rate to U.S. dollar LIBOR recommended by the Alternative Reference Rates Committee, a group of private-market participants and official-sector entities convened by the Board of Governors of the Federal Reserve System (Federal Reserve) and the Federal Reserve Bank of New York, and a broad measure of the cost of borrowing cash overnight collateralized by U.S. Treasury securities. Also, in 2019, the Corporation issued debt linked to SOFR, and the Corporation co-arranged one of the first credit facilities linked to SOFR and has implemented fallback provisions into certain new IBOR-based products and contracts. The Corporation continues to monitor the development and usage of ARRs, including SOFR. For more information on the expected replacement of LIBOR and other benchmark rates, see Item 1A. Risk Factors - Other on page 17.

Financial Highlights

In the Consolidated Statement of Income, amounts related to certain asset and liability management (ALM) activities have been reclassified from other income to market making and similar activities, which was previously referred to as trading account income. All prior periods presented reflect this change, which has no impact on the Corporation's total noninterest income or net income, and has no impact on business segment results. For more information, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements.

Table 1 Summary Income Statement and Selected Financial Data

(Dollars in millions, except per share information)		2019	2018
Income statement			
Net interest income	\$	48,891	\$ 48,162
Noninterest income		42,353	42,858
Total revenue, net of interest expense		91,244	91,020
Provision for credit losses		3,590	3,282
Noninterest expense		54,900	53,154
Income before income taxes		32,754	34,584
Income tax expense		5,324	6,437
Net income		27,430	28,147
Preferred stock dividends		1,432	1,451
Net income applicable to common shareholders	\$	25,998	\$ 26,696
Per common share information			
Earnings	\$	2.77	\$ 2.64
Diluted earnings		2.75	2.61
Dividends paid		0.66	0.54
Performance ratios			
Return on average assets		1.14 %	1.21 %
Return on average common shareholders' equity		10.62	11.04
Return on average tangible common shareholders' equity (1)		14.86	15.55
Efficiency ratio		60.17	58.40
Balance sheet at year end			
Total loans and leases	\$	983,426	\$ 946,895
Total assets		2,434,079	2,354,507
Total deposits		1,434,803	1,381,476
Total liabilities		2,169,269	2,089,182
Total common shareholders' equity		241,409	242,999
Total shareholders' equity		264,810	265,325

(1) Return on average tangible common shareholders' equity is a non-GAAP financial measure. For more information and a corresponding reconciliation to the most closely related financial measures defined by accounting principles generally accepted in the United States of America, see Non-GAAP Reconciliations on page 80.

Net income was \$27.4 billion or \$2.75 per diluted share in 2019 compared to \$28.1 billion, or \$2.61 per diluted share in 2018. The decrease in net income was primarily driven by an increase in noninterest expense as a result of the \$2.1 billion pretax impairment charge related to the notice of termination of the merchant services joint venture at the conclusion of its current term. Also contributing to the decrease in net income were higher provision for credit losses and lower noninterest income, partially offset by an increase in net interest income.

For discussion and analysis of our consolidated and business segment results of operations for 2018 compared to 2017, see

the Financial Highlights and Business Segment Operations sections in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

Net Interest Income

Net interest income increased \$729 million to \$48.9 billion in 2019 compared 2018. Net interest yield on a fully taxable-equivalent (FTE) basis decreased two basis points (bps) to 2.43 percent for 2019. The increase in net interest income was primarily driven by loan and deposit growth, partially offset by lower long-end rates. Assuming a stable economic and interest rate environment compared to December 31, 2019, we expect quarterly net interest income for the first two quarters of 2020 to be lower compared to the fourth quarter of 2019 driven by the impact of rates and one fewer day of interest accruals. Quarterly net interest income is expected to rise modestly in the second half of 2020 due to one additional day of interest accruals and expected loan and deposit growth. For more information on net interest yield and the FTE basis, see Supplemental Financial Data on page 27, and for more information on interest rate risk management, see Interest Rate Risk Management for the Banking Book on page 74.

Noninterest Income

Table 2 Noninterest Income

(Dollars in millions)	2019		2018	
Fees and commissions:				
Card income	\$	5,797	\$	5,824
Service charges		7,674		7,767
Investment and brokerage services		13,902		14,160
Investment banking fees		5,642		5,327
<hr/>				
Total fees and commissions		33,015		33,078
Market making and similar activities		9,034		9,008
Other income		304		772
<hr/>				
Total noninterest income	\$	42,353	\$	42,858

Noninterest income decreased \$505 million to \$42.4 billion in 2019 compared to 2018. The following highlights the significant changes.

- Service charges decreased \$93 million primarily driven by lower fees due to policy changes in 2018 and lower ATM volume in *Consumer Banking*.
- Investment and brokerage services income decreased \$258 million primarily due to lower transactional revenue and a decrease in assets under management (AUM) pricing, partially offset by the positive impact of AUM flows and higher market valuations.
- Investment banking fees increased \$315 million due to increases in advisory fees and equity and debt underwriting fees.
- Other income decreased \$468 million primarily due to lower gains on sales of non-core consumer loans and higher partnership losses associated with an increase in tax-advantaged investments, partially offset by higher gains on sales of debt securities.

Provision for Credit Losses

The provision for credit losses increased \$308 million to \$3.6 billion in 2019 compared to 2018. The increase was primarily due to the energy reserve releases in the commercial portfolio in 2018, partially offset by the impact of recoveries recorded in connection with sales of previously charged-off non-core consumer real estate loans. For more information on the provision for credit losses, see Provision for Credit Losses on page 68.

Noninterest Expense

Table 3 Noninterest Expense

(Dollars in millions)	2019	2018
Compensation and benefits	\$ 31,977	\$ 31,880
Occupancy and equipment	6,588	6,380
Information processing and communications	4,646	4,555
Product delivery and transaction related	2,762	2,857
Marketing	1,934	1,674
Professional fees	1,597	1,699
Other general operating	5,396	4,109
Total noninterest expense	\$ 54,900	\$ 53,154

Noninterest expense increased \$1.7 billion to \$54.9 billion in 2019 compared to 2018. The increase was primarily due to the

Balance Sheet Overview

Table 5 Selected Balance Sheet Data

(Dollars in millions)	December 31		
	2019	2018	% Change
Assets			
Cash and cash equivalents	\$ 161,560	\$ 177,404	(9)%
Federal funds sold and securities borrowed or purchased under agreements to resell	274,597	261,131	5
Trading account assets	229,826	214,348	7
Debt securities	472,197	441,753	7
Loans and leases	983,426	946,895	4
Allowance for loan and lease losses	(9,416)	(9,601)	(2)
All other assets	321,889	322,577	—
Total assets	\$ 2,434,079	\$ 2,354,507	3
Liabilities			
Deposits	\$ 1,434,803	\$ 1,381,476	4
Federal funds purchased and securities loaned or sold under agreements to repurchase	165,109	186,988	(12)
Trading account liabilities	83,270	68,220	22
Short-term borrowings	24,204	20,189	20
Long-term debt	240,856	229,392	5
All other liabilities	221,027	202,917	9
Total liabilities	2,169,269	2,089,182	4
Shareholders' equity	264,810	265,325	—
Total liabilities and shareholders' equity	\$ 2,434,079	\$ 2,354,507	3

Assets

At December 31, 2019, total assets were approximately \$2.4 trillion, up \$79.6 billion from December 31, 2018. The increase in assets was primarily due to higher loans and leases and debt securities primarily funded by deposit growth.

Cash and Cash Equivalents

Cash and cash equivalents decreased \$15.8 billion driven by investment of short-term excess cash into securities purchased under agreements to resell, debt securities and growth in loans and leases.

mentioned impairment charge related to our merchant services joint venture of \$2.1 billion as well as increased costs associated with investment in the businesses, including brand-related marketing costs, and higher litigation expense. These were partially offset by efficiency savings, lower Federal Deposit Insurance Corporation (FDIC) expense and lower amortization of intangibles expense.

Income Tax Expense

Table 4 Income Tax Expense

(Dollars in millions)	2019	2018
Income before income taxes	\$ 32,754	\$ 34,584
Income tax expense	5,324	6,437
Effective tax rate	16.3%	18.6%

The effective tax rates for 2019 and 2018 reflect the impact of our recurring tax preference benefits. The 2019 effective rate also included net tax benefits primarily related to the resolution of various tax controversy matters.

We expect the effective tax rate for 2020 to be approximately 18 percent, absent unusual items.

Federal Funds Sold and Securities Borrowed or Purchased Under Agreements to Resell

Federal funds transactions involve lending reserve balances on a short-term basis. Securities borrowed or purchased under agreements to resell are collateralized lending transactions utilized to accommodate customer transactions, earn interest rate spreads, and obtain securities for settlement and for collateral. Federal funds sold and securities borrowed or purchased under agreements to resell increased \$13.5 billion due to investment of excess cash levels.

Trading Account Assets

Trading account assets consist primarily of long positions in equity and fixed-income securities including U.S. government and agency securities, corporate securities and non-U.S. sovereign debt. Trading account assets increased \$15.5 billion primarily driven by additional inventory in *Global Markets* to facilitate client demand.

Debt Securities

Debt securities primarily include U.S. Treasury and agency securities, mortgage-backed securities (MBS), principally agency MBS, non-U.S. bonds, corporate bonds and municipal debt. We use the debt securities portfolio primarily to manage interest rate and liquidity risk and to take advantage of market conditions that create economically attractive returns on these investments. Debt securities increased \$30.4 billion primarily driven by the deployment of deposit inflows. For more information on debt securities, see *Note 4 – Securities* to the Consolidated Financial Statements.

Loans and Leases

Loans and leases increased \$36.5 billion primarily due to net loan growth driven by client demand for commercial loans and increases in residential mortgage. For more information on the loan portfolio, see *Credit Risk Management* on page 53.

Allowance for Loan and Lease Losses

The allowance for loan and lease losses decreased \$185 million primarily due to the impact of improvements in credit quality from a stronger economy and continued runoff and sales in the non-core consumer real estate portfolio. For more information, see *Allowance for Credit Losses* on page 68.

Liabilities

At December 31, 2019, total liabilities were approximately \$2.2 trillion, up \$80.1 billion from December 31, 2018, primarily due to deposit growth.

Deposits

Deposits increased \$53.3 billion primarily due to increases in both retail and wholesale deposits.

Federal Funds Purchased and Securities Loaned or Sold Under Agreements to Repurchase

Federal funds transactions involve borrowing reserve balances on a short-term basis. Securities loaned or sold under agreements to repurchase are collateralized borrowing transactions utilized to accommodate customer transactions, earn interest rate spreads and finance assets on the balance sheet. Federal funds purchased and securities loaned or sold under agreements to repurchase decreased \$21.9 billion primarily driven by balance sheet efficiencies within *Global Markets*.

Trading Account Liabilities

Trading account liabilities consist primarily of short positions in equity and fixed-income securities including U.S. Treasury and agency securities, corporate securities and non-U.S. sovereign debt. Trading account liabilities increased \$15.1 billion primarily due to higher levels of short positions in government and corporate bonds driven by client demand within *Global Markets*.

Short-term Borrowings

Short-term borrowings provide an additional funding source and primarily consist of Federal Home Loan Bank (FHLB) short-term borrowings, notes payable and various other borrowings that generally have maturities of one year or less. Short-term borrowings increased \$4.0 billion primarily due to an increase in short-term FHLB advances to manage liquidity needs. For more information on short-term borrowings, see *Note 11 – Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash* to the Consolidated Financial Statements.

Long-term Debt

Long-term debt increased \$11.5 billion primarily driven by debt issuances and valuation adjustments, partially offset by maturities and redemptions. For more information on long-term debt, see *Note 12 – Long-term Debt* to the Consolidated Financial Statements.

All Other Liabilities

All other liabilities increased \$18.1 billion primarily driven by an increase in broker-dealer payables within *Global Markets* due to timing of unsettled trades and an increase in lease liabilities due to implementation of the new lease accounting standard.

Shareholders' Equity

Shareholders' equity decreased \$515 million driven by returns of capital to shareholders through share repurchases, common and preferred stock dividends of \$35.7 billion, as well as redemption of preferred stock, largely offset by earnings, market value increases on debt securities and issuances of preferred stock.

Cash Flows Overview

The Corporation's operating assets and liabilities support our global markets and lending activities. We believe that cash flows from operations, available cash balances and our ability to generate cash through short- and long-term debt are sufficient to fund our operating liquidity needs. Our investing activities primarily include the debt securities portfolio and loans and leases. Our financing activities reflect cash flows primarily related to customer deposits, securities financing agreements and long-term debt. For more information on liquidity, see *Liquidity Risk* on page 50.

Supplemental Financial Data

In this Form 10-K, we present certain non-GAAP financial measures. Non-GAAP financial measures exclude certain items or otherwise include components that differ from the most directly comparable measures calculated in accordance with accounting principles generally accepted in the United States of America (GAAP). Non-GAAP financial measures are provided as additional useful information to assess our financial condition, results of operations (including period-to-period operating performance) or compliance with prospective regulatory requirements. These non-GAAP financial measures are not intended as a substitute for GAAP financial measures and may not be defined or calculated the same way as non-GAAP financial measures used by other companies.

We view net interest income and related ratios and analyses on an FTE basis, which when presented on a consolidated basis are non-GAAP financial measures. To derive the FTE basis, net interest income is adjusted to reflect tax-exempt income on an equivalent before-tax basis with a corresponding increase in income tax expense. For purposes of this calculation, we use the federal statutory tax rate of 21 percent for 2019 and 2018 (35 percent for 2017) and a representative state tax rate. Net interest yield, which measures the basis points we earn over the cost of funds, utilizes net interest income on an FTE basis. We believe that presentation of these items on an FTE basis allows for comparison of amounts from both taxable and tax-exempt sources and is consistent with industry practices.

We may present certain key performance indicators and ratios excluding certain items (e.g., debit valuation adjustment (DVA) gains (losses)) which result in non-GAAP financial measures. We believe that the presentation of measures that exclude these items

is useful because such measures provide additional information to assess the underlying operational performance and trends of our businesses and to allow better comparison of period-to-period operating performance.

We also evaluate our business based on certain ratios that utilize tangible equity, a non-GAAP financial measure. Tangible equity represents shareholders' equity or common shareholders'

equity reduced by goodwill and intangible assets (excluding mortgage servicing rights (MSRs)), net of related deferred tax liabilities ("adjusted" shareholders' equity or common shareholders' equity). These measures are used to evaluate our use of equity. In addition, profitability, relationship and investment models use both return on average tangible common shareholders' equity and return on average tangible shareholders' equity as key measures to support our overall growth goals. These ratios are as follows:

- Return on average tangible common shareholders' equity measures our net income applicable to common shareholders as a percentage of adjusted average common shareholders' equity. The tangible common equity ratio represents adjusted ending common shareholders' equity divided by total tangible assets.
- Return on average tangible shareholders' equity measures our net income as a percentage of adjusted average total shareholders' equity. The tangible equity ratio represents adjusted ending shareholders' equity divided by total tangible assets.
- Tangible book value per common share represents adjusted ending common shareholders' equity divided by ending common shares outstanding.

We believe that the use of ratios that utilize tangible equity provides additional useful information because they present measures of those assets that can generate income. Tangible book value per common share provides additional useful information about the level of tangible assets in relation to outstanding shares of common stock.

The aforementioned supplemental data and performance measures are presented in Tables 6 and 7.

For more information on the reconciliation of these non-GAAP financial measures to the corresponding GAAP financial measures, see Non-GAAP Reconciliations on page 80.

Table 6 Five-year Summary of Selected Financial Data

(In millions, except per share information)

	2019	2018	2017	2016	2015
Income statement					
Net interest income	\$ 48,891	\$ 48,162	\$ 45,239	\$ 41,486	\$ 38,958
Noninterest income	42,353	42,858	41,887	42,012	44,007
Total revenue, net of interest expense	91,244	91,020	87,126	83,498	82,965
Provision for credit losses	3,590	3,282	3,396	3,597	3,161
Noninterest expense	54,900	53,154	54,517	54,880	57,617
Income before income taxes	32,754	34,584	29,213	25,021	22,187
Income tax expense	5,324	6,437	10,981	7,199	6,277
Net income	27,430	28,147	18,232	17,822	15,910
Net income applicable to common shareholders	25,998	26,696	16,618	16,140	14,427
Average common shares issued and outstanding	9,390.5	10,096.5	10,195.6	10,248.1	10,462.3
Average diluted common shares issued and outstanding	9,442.9	10,236.9	10,778.4	11,046.8	11,236.2
Performance ratios					
Return on average assets	1.14 %	1.21 %	0.80 %	0.81 %	0.74 %
Return on average common shareholders' equity	10.62	11.04	6.72	6.69	6.28
Return on average tangible common shareholders' equity ⁽¹⁾	14.86	15.55	9.41	9.51	9.16
Return on average shareholders' equity	10.24	10.63	6.72	6.70	6.33
Return on average tangible shareholders' equity ⁽¹⁾	13.85	14.46	9.08	9.17	8.88
Total ending equity to total ending assets	10.88	11.27	11.71	12.17	11.92
Total average equity to total average assets	11.14	11.39	11.96	12.14	11.64
Dividend payout	23.65	20.31	24.24	15.94	14.49
Per common share data					
Earnings	\$ 2.77	\$ 2.64	\$ 1.63	\$ 1.57	\$ 1.38
Diluted earnings	2.75	2.61	1.56	1.49	1.31
Dividends paid	0.66	0.54	0.39	0.25	0.20
Book value	27.32	25.13	23.80	23.97	22.48
Tangible book value ⁽¹⁾	19.41	17.91	16.96	16.89	15.56
Market capitalization	\$ 311,209	\$ 238,251	\$ 303,681	\$ 222,163	\$ 174,700
Average balance sheet					
Total loans and leases	\$ 958,416	\$ 933,049	\$ 918,731	\$ 900,433	\$ 876,787
Total assets	2,405,830	2,325,246	2,268,633	2,190,218	2,160,536
Total deposits	1,380,326	1,314,941	1,269,796	1,222,561	1,155,860
Long-term debt	201,623	200,399	194,882	204,826	240,059
Common shareholders' equity	244,853	241,799	247,101	241,187	229,576
Total shareholders' equity	267,889	264,748	271,289	265,843	251,384
Asset quality ⁽²⁾					
Allowance for credit losses ⁽³⁾	\$ 10,229	\$ 10,398	\$ 11,170	\$ 11,999	\$ 12,880
Nonperforming loans, leases and foreclosed properties ⁽⁴⁾	3,837	5,244	6,758	8,084	9,836
Allowance for loan and lease losses as a percentage of total loans and leases outstanding ⁽⁴⁾	0.97 %	1.02 %	1.12 %	1.26 %	1.37 %
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases ⁽⁴⁾	265	194	161	149	130
Net charge-offs	\$ 3,648	\$ 3,763	\$ 3,979	\$ 3,821	\$ 4,338
Net charge-offs as a percentage of average loans and leases outstanding ⁽⁴⁾	0.38 %	0.41 %	0.44 %	0.43 %	0.50 %
Capital ratios at year end ⁽⁵⁾					
Common equity tier 1 capital	11.2 %	11.6 %	11.5 %	10.8 %	9.8 %
Tier 1 capital	12.6	13.2	13.0	12.4	11.2
Total capital	14.7	15.1	14.8	14.2	12.8
Tier 1 leverage	7.9	8.4	8.6	8.8	8.4
Supplementary leverage ratio	6.4	6.8	n/a	n/a	n/a
Tangible equity ⁽¹⁾	8.2	8.6	8.9	9.2	8.9
Tangible common equity ⁽¹⁾	7.3	7.6	7.9	8.0	7.8

⁽¹⁾ Tangible equity ratios and tangible book value per share of common stock are non-GAAP financial measures. For more information on these ratios and corresponding reconciliations to GAAP financial measures, see Supplemental Financial Data on page 27 and Non-GAAP Reconciliations on page 80.

⁽²⁾ Asset quality metrics include \$75 million of non-U.S. consumer credit card net charge-offs in 2017 and \$243 million of non-U.S. consumer credit card allowance for loan and lease losses, \$9.2 billion of non-U.S. consumer credit card loans and \$175 million of non-U.S. consumer credit card net charge-offs in 2016. The non-U.S. consumer credit card business was sold in 2017.

⁽³⁾ Includes the allowance for loan and leases losses and the reserve for unfunded lending commitments.

⁽⁴⁾ Balances and ratios do not include loans accounted for under the fair value option. For additional exclusions from nonperforming loans, leases and foreclosed properties, see Consumer Portfolio Credit Risk Management – Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity on page 59 and corresponding Table 29 and Commercial Portfolio Credit Risk Management – Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity on page 63 and corresponding Table 36.

⁽⁵⁾ Basel 3 transition provisions for regulatory capital adjustments and deductions were fully phased-in as of January 1, 2018. Prior periods are presented on a fully phased-in basis. For more information, including which approach is used to assess capital adequacy, see Capital Management on page 45.

n/a = not applicable

Table 7 **Selected Quarterly Financial Data**

	2019 Quarters				2018 Quarters			
	Fourth	Third	Second	First	Fourth	Third	Second	First
(In millions, except per share information)								
Income statement								
Net interest income	\$ 12,140	\$ 12,187	\$ 12,189	\$ 12,375	\$ 12,504	\$ 12,061	\$ 11,828	\$ 11,769
Noninterest income	10,209	10,620	10,895	10,629	10,173	10,663	10,721	11,301
Total revenue, net of interest expense	22,349	22,807	23,084	23,004	22,677	22,724	22,549	23,070
Provision for credit losses	941	779	857	1,013	905	716	827	834
Noninterest expense	13,239	15,169	13,268	13,224	13,074	13,014	13,224	13,842
Income before income taxes	8,169	6,859	8,959	8,767	8,698	8,994	8,498	8,394
Income tax expense	1,175	1,082	1,611	1,456	1,420	1,827	1,714	1,476
Net income	6,994	5,777	7,348	7,311	7,278	7,167	6,784	6,918
Net income applicable to common shareholders	6,748	5,272	7,109	6,869	7,039	6,701	6,466	6,490
Average common shares issued and outstanding	9,017.1	9,303.6	9,523.2	9,725.9	9,855.8	10,031.6	10,181.7	10,322.4
Average diluted common shares issued and outstanding	9,079.5	9,353.0	9,559.6	9,787.3	9,996.0	10,170.8	10,309.4	10,472.7
Performance ratios								
Return on average assets	1.13 %	0.95 %	1.23 %	1.26 %	1.24 %	1.23 %	1.17 %	1.21 %
Four-quarter trailing return on average assets ⁽¹⁾	1.14	1.17	1.24	1.22	1.21	1.00	0.93	0.86
Return on average common shareholders' equity	11.00	8.48	11.62	11.42	11.57	10.99	10.75	10.85
Return on average tangible common shareholders' equity ⁽²⁾	15.43	11.84	16.24	16.01	16.29	15.48	15.15	15.26
Return on average shareholders' equity	10.40	8.48	11.00	11.14	10.95	10.74	10.26	10.57
Return on average tangible shareholders' equity ⁽²⁾	14.09	11.43	14.88	15.10	14.90	14.61	13.95	14.37
Total ending equity to total ending assets	10.88	11.06	11.33	11.23	11.27	11.21	11.53	11.43
Total average equity to total average assets	10.89	11.21	11.17	11.28	11.30	11.42	11.42	11.41
Dividend payout	23.90	31.48	19.95	21.20	20.90	22.35	18.83	19.06
Per common share data								
Earnings	\$ 0.75	\$ 0.57	\$ 0.75	\$ 0.71	\$ 0.71	\$ 0.67	\$ 0.64	\$ 0.63
Diluted earnings	0.74	0.56	0.74	0.70	0.70	0.66	0.63	0.62
Dividends paid	0.18	0.18	0.15	0.15	0.15	0.15	0.12	0.12
Book value	27.32	26.96	26.41	25.57	25.13	24.33	24.07	23.74
Tangible book value ⁽²⁾	19.41	19.26	18.92	18.26	17.91	17.23	17.07	16.84
Market capitalization	\$ 311,209	\$ 264,842	\$ 270,935	\$ 263,992	\$ 238,251	\$ 290,424	\$ 282,259	\$ 305,176
Average balance sheet								
Total loans and leases	\$ 973,986	\$ 964,733	\$ 950,525	\$ 944,020	\$ 934,721	\$ 930,736	\$ 934,818	\$ 931,915
Total assets	2,450,005	2,412,223	2,399,051	2,360,992	2,334,586	2,317,829	2,322,678	2,325,878
Total deposits	1,410,439	1,375,052	1,375,450	1,359,864	1,344,951	1,316,345	1,300,659	1,297,268
Long-term debt	206,026	202,620	201,007	196,726	201,056	203,239	199,448	197,787
Common shareholders' equity	243,439	246,630	245,438	243,891	241,372	241,812	241,313	242,713
Total shareholders' equity	266,900	270,430	267,975	266,217	263,698	264,653	265,181	265,480
Asset quality								
Allowance for credit losses ⁽³⁾	\$ 10,229	\$ 10,242	\$ 10,333	\$ 10,379	\$ 10,398	\$ 10,526	\$ 10,837	\$ 11,042
Nonperforming loans, leases and foreclosed properties ⁽⁴⁾	3,837	3,723	4,452	5,145	5,244	5,449	6,181	6,694
Allowance for loan and lease losses as a percentage of total loans and leases outstanding ⁽⁴⁾	0.97 %	0.98 %	1.00 %	1.02 %	1.02 %	1.05 %	1.08 %	1.11 %
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases ⁽⁴⁾	265	271	228	197	194	189	170	161
Net charge-offs	\$ 959	\$ 811	\$ 887	\$ 991	\$ 924	\$ 932	\$ 996	\$ 911
Annualized net charge-offs as a percentage of average loans and leases outstanding ⁽⁴⁾	0.39 %	0.34 %	0.38 %	0.43 %	0.39 %	0.40 %	0.43 %	0.40 %
Capital ratios at period end								
Common equity tier 1 capital	11.2 %	11.4 %	11.7 %	11.6 %	11.6 %	11.4 %	11.4 %	11.3 %
Tier 1 capital	12.6	12.9	13.3	13.1	13.2	12.9	13.0	13.0
Total capital	14.7	15.1	15.4	15.2	15.1	14.7	14.8	14.8
Tier 1 leverage	7.9	8.2	8.4	8.4	8.4	8.3	8.4	8.4
Supplementary leverage ratio	6.4	6.6	6.8	6.8	6.8	6.7	6.7	6.8
Tangible equity ⁽²⁾	8.2	8.4	8.7	8.5	8.6	8.5	8.7	8.7
Tangible common equity ⁽²⁾	7.3	7.4	7.6	7.6	7.6	7.5	7.7	7.6
Total loss-absorbing capacity and long-term debt metrics⁽⁵⁾								
Total loss-absorbing capacity to risk-weighted assets	24.6 %	24.8 %	25.5 %	24.8 %				
Total loss-absorbing capacity to supplementary leverage exposure	12.5	12.7	13.0	12.8				
Eligible long-term debt to risk-weighted assets	11.5	11.4	11.8	11.4				
Eligible long-term debt to supplementary leverage exposure	5.8	5.8	6.0	5.9				

⁽¹⁾ Calculated as total net income for four consecutive quarters divided by annualized average assets for four consecutive quarters.

⁽²⁾ Tangible equity ratios and tangible book value per share of common stock are non-GAAP financial measures. For more information on these ratios and corresponding reconciliations to GAAP financial measures, see Supplemental Financial Data on page 27 and Non-GAAP Reconciliations on page 80.

⁽³⁾ Includes the allowance for loan and lease losses and the reserve for unfunded lending commitments.

- (4) Balances and ratios do not include loans accounted for under the fair value option. For additional exclusions from nonperforming loans, leases and foreclosed properties, see Consumer Portfolio Credit Risk Management – Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity on page 59 and corresponding Table 29 and Commercial Portfolio Credit Risk Management – Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity on page 63 and corresponding Table 36.
- (5) Effective January 1, 2019, we became subject to minimum total loss-absorbing capacity and long-term debt requirements. For more information, see Capital Management on page 45.

Table 8 **Average Balances and Interest Rates - FTE Basis**

	Average Balance	Interest Income/ Expense (1)	Yield/ Rate	Average Balance	Interest Income/ Expense (1)	Yield/ Rate	Average Balance	Interest Income/ Expense (1)	Yield/ Rate
(Dollars in millions)									
	2019			2018			2017		
Earning assets									
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks	\$ 125,555	\$ 1,823	1.45 %	\$ 139,848	\$ 1,926	1.38 %	\$ 127,431	\$ 1,122	0.88 %
Time deposits placed and other short-term investments	9,427	207	2.19	9,446	216	2.29	12,112	241	1.99
Federal funds sold and securities borrowed or purchased under agreements to resell	279,610	4,843	1.73	251,328	3,176	1.26	222,818	1,806	0.81
Trading account assets	148,076	5,269	3.56	132,724	4,901	3.69	129,007	4,618	3.58
Debt securities	450,090	11,917	2.65	437,312	11,837	2.66	435,005	10,626	2.44
Loans and leases (2):									
Residential mortgage	220,552	7,651	3.47	207,523	7,294	3.51	197,766	6,831	3.45
Home equity	44,600	2,194	4.92	53,886	2,573	4.77	62,260	2,608	4.19
Credit card	94,488	10,166	10.76	94,612	9,579	10.12	91,068	8,791	9.65
Non-U.S. credit card (3)	—	—	—	—	—	—	3,929	358	9.12
Direct/Indirect and other consumer(4)	90,656	3,261	3.60	93,036	3,104	3.34	96,002	2,734	2.85
Total consumer	450,296	23,272	5.17	449,057	22,550	5.02	451,025	21,322	4.73
U.S. commercial	321,467	13,016	4.05	304,387	11,937	3.92	292,452	9,765	3.34
Non-U.S. commercial	103,918	3,547	3.41	97,664	3,220	3.30	95,005	2,566	2.70
Commercial real estate (5)	62,044	2,741	4.42	60,384	2,618	4.34	58,502	2,116	3.62
Commercial lease financing	20,691	718	3.47	21,557	698	3.24	21,747	706	3.25
Total commercial	508,120	20,022	3.94	483,992	18,473	3.82	467,706	15,153	3.24
Total loans and leases (3)	958,416	43,294	4.52	933,049	41,023	4.40	918,731	36,475	3.97
Other earning assets	69,089	4,478	6.48	76,524	4,300	5.62	76,957	3,224	4.19
Total earning assets	2,040,263	71,831	3.52	1,980,231	67,379	3.40	1,922,061	58,112	3.02
Cash and due from banks	26,193			25,830			27,995		
Other assets, less allowance for loan and lease losses	339,374			319,185			318,577		
Total assets	\$ 2,405,830			\$ 2,325,246			\$ 2,268,633		
Interest-bearing liabilities									
U.S. interest-bearing deposits:									
Savings	\$ 52,020	\$ 5	0.01 %	\$ 54,226	\$ 6	0.01 %	\$ 53,783	\$ 5	0.01 %
NOW and money market deposit accounts	741,126	4,471	0.60	676,382	2,636	0.39	628,647	873	0.14
Consumer CDs and IRAs	47,577	471	0.99	39,823	157	0.39	44,794	121	0.27
Negotiable CDs, public funds and other deposits	66,866	1,407	2.11	50,593	991	1.96	36,782	354	0.96
Total U.S. interest-bearing deposits	907,589	6,354	0.70	821,024	3,790	0.46	764,006	1,353	0.18
Non-U.S. interest-bearing deposits:									
Banks located in non-U.S. countries	1,936	20	1.04	2,312	39	1.69	2,442	21	0.85
Governments and official institutions	181	—	0.05	810	—	0.01	1,006	10	0.95
Time, savings and other	69,351	814	1.17	65,097	666	1.02	62,386	547	0.88
Total non-U.S. interest-bearing deposits	71,468	834	1.17	68,219	705	1.03	65,834	578	0.88
Total interest-bearing deposits	979,057	7,188	0.73	889,243	4,495	0.51	829,840	1,931	0.23
Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities	276,432	7,208	2.61	269,748	5,839	2.17	274,975	3,146	1.14
Trading account liabilities	45,449	1,249	2.75	50,928	1,358	2.67	45,518	1,204	2.64
Long-term debt	201,623	6,700	3.32	200,399	6,915	3.45	194,882	5,667	2.91
Total interest-bearing liabilities	1,502,561	22,345	1.49	1,410,318	18,607	1.32	1,345,215	11,948	0.89
Noninterest-bearing sources:									
Noninterest-bearing deposits	401,269			425,698			439,956		
Other liabilities (6)	234,111			224,482			212,173		
Shareholders' equity	267,889			264,748			271,289		
Total liabilities and shareholders' equity	\$ 2,405,830			\$ 2,325,246			\$ 2,268,633		
Net interest spread			2.03 %			2.08 %			2.13 %
Impact of noninterest-bearing sources			0.40			0.37			0.27
Net interest income/yield on earning assets (7)	\$ 49,486		2.43 %	\$ 48,772		2.45 %	\$ 46,164		2.40 %

(1) Includes the impact of interest rate risk management contracts. For more information, see Interest Rate Risk Management for the Banking Book on page 74.

(2) Nonperforming loans are included in the respective average loan balances. Income on these nonperforming loans is generally recognized on a cost recovery basis.

(3) Includes assets of the Corporation's non-U.S. consumer credit card business, which was sold during the second quarter of 2017.

(4) Includes non-U.S. consumer loans of \$2.9 billion, \$2.8 billion and \$2.9 billion for 2019, 2018 and 2017, respectively.

(5) Includes U.S. commercial real estate loans of \$57.3 billion, \$56.4 billion and \$55.0 billion, and non-U.S. commercial real estate loans of \$4.7 billion, \$4.0 billion and \$3.5 billion for 2019, 2018 and 2017, respectively.

(6) Includes \$35.5 billion, \$30.4 billion and \$30.3 billion of structured notes and liabilities for 2019, 2018 and 2017, respectively.

(7) Net interest income includes FTE adjustments of \$595 million, \$610 million and \$925 million for 2019, 2018 and 2017, respectively.

Table 9 Analysis of Changes in Net Interest Income - FTE Basis

	Due to Change in (1)			Due to Change in (1)								
	Volume	Rate	Net Change	Volume	Rate	Net Change						
	From 2018 to 2019			From 2017 to 2018								
(Dollars in millions)												
Increase (decrease) in interest income												
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks	\$	(193)	\$	90	\$	(103)	\$	109	\$	695	\$	804
Time deposits placed and other short-term investments		—		(9)		(9)		(53)		28		(25)
Federal funds sold and securities borrowed or purchased under agreements to resell		347		1,320		1,667		230		1,140		1,370
Trading account assets		563		(195)		368		134		149		283
Debt securities		135		(55)		80		44		1,167		1,211
Loans and leases:												
Residential mortgage		447		(90)		357		329		134		463
Home equity		(446)		67		(379)		(350)		315		(35)
Credit card		(17)		604		587		339		449		788
Non-U.S. credit card (2)		—		—		—		(358)		—		(358)
Direct/Indirect and other consumer		(76)		233		157		(82)		452		370
Total consumer						722						1,228
U.S. commercial		665		414		1,079		402		1,770		2,172
Non-U.S. commercial		209		118		327		71		583		654
Commercial real estate		75		48		123		70		432		502
Commercial lease financing		(28)		48		20		(5)		(3)		(8)
Total commercial						1,549						3,320
Total loans and leases						2,271						4,548
Other earning assets		(417)		595		178		(18)		1,094		1,076
Total interest income					\$	4,452					\$	9,267
Increase (decrease) in interest expense												
U.S. interest-bearing deposits:												
Savings	\$	(1)	\$	—	\$	(1)	\$	—	\$	1	\$	1
NOW and money market deposit accounts		254		1,581		1,835		74		1,689		1,763
Consumer CDs and IRAs		29		285		314		(13)		49		36
Negotiable CDs, public funds and other deposits		320		96		416		132		505		637
Total U.S. interest-bearing deposits						2,564						2,437
Non-U.S. interest-bearing deposits:												
Banks located in non-U.S. countries		(6)		(13)		(19)		(1)		19		18
Governments and official institutions		—		—		—		(2)		(8)		(10)
Time, savings and other		41		107		148		26		93		119
Total non-U.S. interest-bearing deposits						129						127
Total interest-bearing deposits						2,693						2,564
Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities		160		1,209		1,369		(71)		2,764		2,693
Trading account liabilities		(145)		36		(109)		140		14		154
Long-term debt		41		(256)		(215)		165		1,083		1,248
Total interest expense						3,738						6,659
Net increase in net interest income (3)					\$	714				\$		2,608

⁽¹⁾ The changes for each category of interest income and expense are divided between the portion of change attributable to the variance in volume and the portion of change attributable to the variance in rate for that category. The unallocated change in rate or volume variance is allocated between the rate and volume variances.

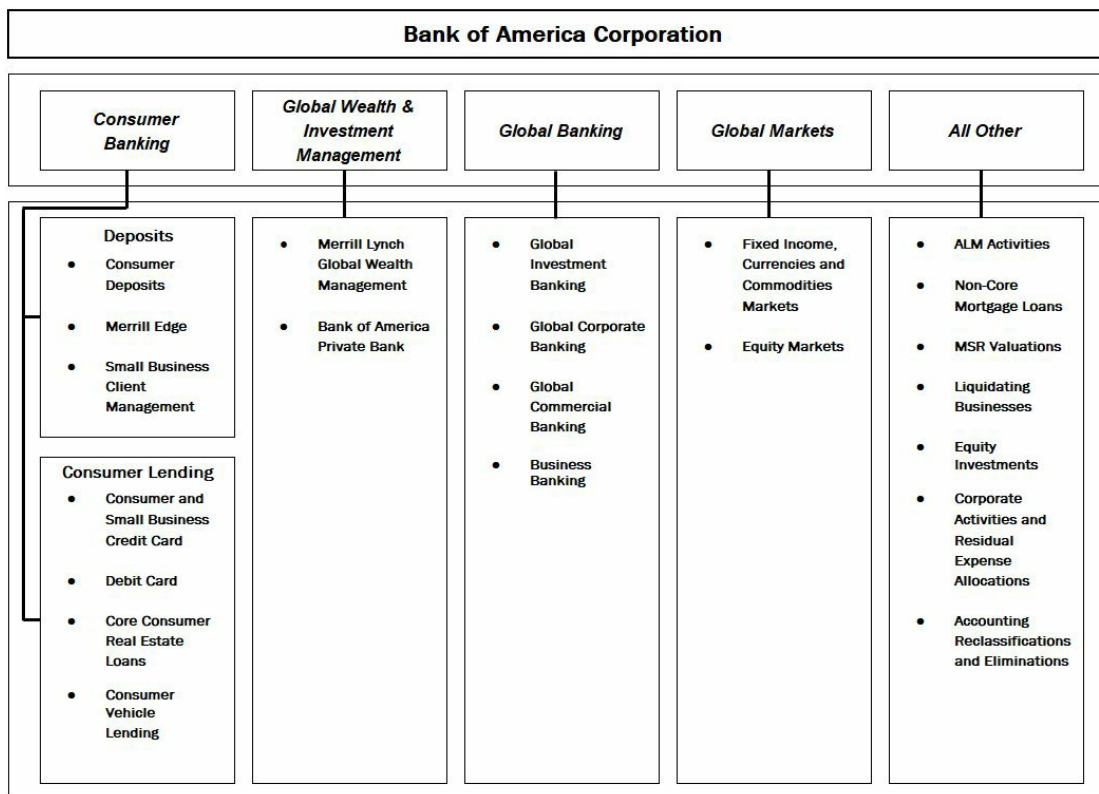
⁽²⁾ The Corporation sold its non-U.S. credit card business in the second quarter of 2017.

⁽³⁾ Includes decreases in FTE basis adjustments of \$15 million from 2018 to 2019 and \$315 million from 2017 to 2018.

Business Segment Operations

Segment Description and Basis of Presentation

We report our results of operations through the following four business segments: *Consumer Banking*, *GWIM*, *Global Banking* and *Global Markets*, with the remaining operations recorded in *All Other*. We manage our segments and report their results on an FTE basis. The primary activities, products and businesses of the business segments and *All Other* are shown below.



We periodically review capital allocated to our businesses and allocate capital annually during the strategic and capital planning processes. We utilize a methodology that considers the effect of regulatory capital requirements in addition to internal risk-based capital models. Our internal risk-based capital models use a risk-adjusted methodology incorporating each segment's credit, market, interest rate, business and operational risk components. For more information on the nature of these risks, see Managing Risk on page 42. The capital allocated to the business segments is referred to as allocated capital. Allocated equity in the reporting

units is comprised of allocated capital plus capital for the portion of goodwill and intangibles specifically assigned to the reporting unit. For more information, including the definition of a reporting unit, see *Note 8 – Goodwill and Intangible Assets* to the Consolidated Financial Statements.

For more information on our presentation of financial information on an FTE basis, see Supplemental Financial Data on page 27, and for reconciliations to consolidated total revenue, net income and year-end total assets, see *Note 24 – Business Segment Information* to the Consolidated Financial Statements.

Consumer Banking

	Deposits		Consumer Lending		Total Consumer Banking		% Change
	2019	2018	2019	2018	2019	2018	
(Dollars in millions)							
Net interest income	\$ 16,904	\$ 15,939	\$ 11,254	\$ 11,086	\$ 28,158	\$ 27,025	4 %
Noninterest income:							
Card income	(33)	(33)	5,117	5,135	5,084	5,102	—
Service charges	4,217	4,298	2	2	4,219	4,300	(2)
All other income	832	762	294	429	1,126	1,191	(5)
Total noninterest income	5,016	5,027	5,413	5,566	10,429	10,593	(2)
Total revenue, net of interest expense	21,920	20,966	16,667	16,652	38,587	37,618	3
Provision for credit losses	269	195	3,503	3,469	3,772	3,664	3
Noninterest expense	10,682	10,657	6,936	7,015	17,618	17,672	—
Income before income taxes	10,969	10,114	6,228	6,168	17,197	16,282	6
Income tax expense	2,687	2,578	1,526	1,572	4,213	4,150	2
Net income	\$ 8,282	\$ 7,536	\$ 4,702	\$ 4,596	\$ 12,984	\$ 12,132	7
Effective tax rate ⁽¹⁾					24.5 %	25.5 %	
Net interest yield	2.40 %	2.34 %	3.80 %	3.97 %	3.81	3.77	
Return on average allocated capital	69	63	19	18	35	33	
Efficiency ratio	48.73	50.83	41.61	42.12	45.66	46.98	
Balance Sheet							
Average							
Total loans and leases	\$ 5,373	\$ 5,233	\$ 295,562	\$ 278,574	\$ 300,935	\$ 283,807	6 %
Total earning assets ⁽²⁾	703,444	682,592	296,051	279,217	738,770	717,189	3
Total assets ⁽²⁾	735,232	710,925	306,169	290,068	780,676	756,373	3
Total deposits	702,908	678,640	5,368	5,533	708,276	684,173	4
Allocated capital	12,000	12,000	25,000	25,000	37,000	37,000	—
Year end							
Total loans and leases	\$ 5,472	\$ 5,470	\$ 311,942	\$ 288,865	\$ 317,414	\$ 294,335	8 %
Total earning assets ⁽²⁾	724,536	694,672	312,684	289,249	760,137	728,813	4
Total assets ⁽²⁾	758,385	724,019	322,717	299,970	804,019	768,881	5
Total deposits	725,598	691,666	5,080	4,480	730,678	696,146	5

⁽¹⁾ Estimated at the segment level only.

⁽²⁾ In segments and businesses where the total of liabilities and equity exceeds assets, we allocate assets from *All Other* to match the segments' and businesses' liabilities and allocated shareholders' equity. As a result, total earning assets and total assets of the businesses may not equal total *Consumer Banking*.

Consumer Banking, which is comprised of Deposits and Consumer Lending, offers a diversified range of credit, banking and investment products and services to consumers and small businesses. Deposits and Consumer Lending include the net impact of migrating customers and their related deposit, brokerage asset and loan balances between Deposits, Consumer Lending and *GWIM*, as well as other client-managed businesses. Our customers and clients have access to a coast to coast network including financial centers in 38 states and the District of Columbia. Our network includes approximately 4,300 financial centers, approximately 16,800 ATMs, nationwide call centers, and leading digital banking platforms with more than 38 million active users, including over 29 million active mobile users.

Consumer Banking Results

Net income for *Consumer Banking* increased \$852 million to \$13.0 billion in 2019 compared to 2018 primarily driven by higher net interest income and lower noninterest expense, partially offset by lower noninterest income. Net interest income increased \$1.1 billion to \$28.2 billion primarily due to growth in deposits and loans. Noninterest income decreased \$164 million to \$10.4 billion driven by lower service charges and lower mortgage banking income, largely offset by higher results from ALM activities.

The provision for credit losses increased \$108 million to \$3.8 billion driven by overdrafts and portfolio seasoning in the credit card portfolio. Noninterest expense decreased \$54 million to

\$17.6 billion primarily driven by lower FDIC expense and operating efficiencies, partially offset by continued investment in the business.

The return on average allocated capital was 35 percent, up from 33 percent, driven by higher net income. For information on capital allocated to the business segments, see Business Segment Operations on page 32.

Deposits

Deposits includes the results of consumer deposit activities which consist of a comprehensive range of products provided to consumers and small businesses. Our deposit products include traditional savings accounts, money market savings accounts, CDs and IRAs, and noninterest- and interest-bearing checking accounts, as well as investment accounts and products. Net interest income is allocated to the deposit products using our funds transfer pricing process that matches assets and liabilities with similar interest rate sensitivity and maturity characteristics. Deposits generates fees such as account service fees, non-sufficient funds fees, overdraft charges and ATM fees, as well as investment and brokerage fees from Merrill Edge accounts. Merrill Edge is an integrated investing and banking service targeted at customers with less than \$250,000 in investable assets. Merrill Edge provides investment advice and guidance, client brokerage asset services, a self-directed online investing platform and key banking capabilities including access to the Corporation's network of financial centers and ATMs.

Net income for Deposits increased \$746 million to \$8.3 billion driven by higher net interest income. Net interest income increased \$965 million to \$16.9 billion primarily due to growth in deposits and pricing discipline. Noninterest income decreased \$11 million to \$5.0 billion primarily driven by lower service charges, largely offset by higher results from ALM activities.

The provision for credit losses increased \$74 million to \$269 million in 2019. Noninterest expense increased \$25 million to \$10.7 billion driven by continued investment in the business, partially offset by lower FDIC expense and operating efficiencies.

Average deposits increased \$24.3 billion to \$702.9 billion in 2019 driven by strong organic growth. Growth in checking and time deposits of \$27.0 billion was partially offset by a decline in traditional savings and money market savings of \$2.5 billion.

Key Statistics – Deposits

	2019	2018
Total deposit spreads (excludes noninterest costs) (1)	2.34 %	2.14 %
Year end		
Consumer investment assets (in millions) (2)	\$ 240,132	\$ 185,881
Active digital banking users (units in thousands) (3)	38,266	36,264
Active mobile banking users (units in thousands)	29,174	26,433
Financial centers	4,300	4,341
ATMs	16,788	16,255

(1) Includes deposits held in Consumer

Lending.

(2) Includes client brokerage assets, deposit sweep balances and AUM in Consumer Banking.

(3) Active digital banking users represents mobile and/or online users.

Consumer investment assets increased \$54 billion in 2019 driven by strong market performance and client flows. Active mobile banking users increased 3 million reflecting continuing changes in our customers' banking preferences. The number of financial centers declined by a net 41 reflecting changes in customer preferences to self-service options as we continue to optimize our consumer banking network and improve our cost to serve.

Consumer Lending

Consumer Lending offers products to consumers and small businesses across the U.S. The products offered include credit and debit cards, residential mortgages and home equity loans, and direct and indirect loans such as automotive, recreational vehicle and consumer personal loans. In addition to earning net interest spread revenue on its lending activities, Consumer Lending generates interchange revenue from credit and debit card transactions, late fees, cash advance fees, annual credit card fees, mortgage banking fee income and other miscellaneous fees. Consumer Lending products are available to our customers through our retail network, direct telephone, and online and mobile channels. Consumer Lending results also include the impact of servicing residential mortgages and home equity loans in the core portfolio, including loans held on the balance sheet of Consumer Lending and loans serviced for others.

Net income for Consumer Lending increased \$106 million to \$4.7 billion driven by higher net interest income and lower noninterest expense, partially offset by lower noninterest income. Net interest income increased \$168 million to \$11.3 billion driven by loan growth. Noninterest income decreased \$153 million to \$5.4 billion primarily driven by lower mortgage banking income and lower card income.

The provision for credit losses increased \$34 million to \$3.5 billion primarily driven by portfolio seasoning in the credit card portfolio. Noninterest expense decreased \$79 million to \$6.9 billion primarily driven by operating efficiencies.

Average loans increased \$17.0 billion to \$295.6 billion primarily driven by increases in residential mortgages and credit card, partially offset by lower home equity loans.

Key Statistics – Consumer Lending

(Dollars in millions)	2019	2018
Total credit card (1)		
Gross interest yield	10.76 %	10.12 %
Risk-adjusted margin	8.28	8.25
New accounts (in thousands)	4,320	4,544
Purchase volumes	\$ 277,852	\$ 264,706
Debit card purchase volumes	\$ 360,672	\$ 338,810

(1) Includes G W I M ' s credit card portfolio.

During 2019, the total credit card risk-adjusted margin increased 3 bps compared to 2018, primarily driven by a portfolio shift away from promotional-rate loans. Total credit card purchase volumes increased \$13.1 billion to \$277.9 billion, and debit card purchase volumes increased \$21.9 billion to \$360.7 billion, reflecting higher levels of consumer spending.

Key Statistics – Loan Production (1)

(Dollars in millions)	2019	2018
Total (2):		
First mortgage	\$ 72,467	\$ 41,195
Home equity	11,131	14,869
Consumer Banking:		
First mortgage	\$ 49,179	\$ 27,280
Home equity	9,755	13,251

(1) The loan production amounts represent the unpaid principal balance of loans and, in the case of home equity, the principal amount of the total line of credit.

(2) In addition to loan production in Consumer Banking, there is also first mortgage and home equity loan production in GWIM.

First mortgage loan originations in Consumer Banking and for the total Corporation increased \$21.9 billion and \$31.3 billion in 2019 primarily driven by a lower interest rate environment driving higher first-lien mortgage refinances.

Home equity production in Consumer Banking and for the total Corporation decreased \$3.5 billion and \$3.7 billion in 2019 primarily driven by lower demand.

(Dollars in millions)	2019	2018	% Change
Net interest income	\$ 6,504	\$ 6,265	4 %
Noninterest income:			
Investment and brokerage services	11,870	11,959	(1)
All other income	1,163	1,229	(5)
Total noninterest income	13,033	13,188	(1)
Total revenue, net of interest expense	19,537	19,453	—
Provision for credit losses	82	86	(5)
Noninterest expense	13,823	14,015	(1)
Income before income taxes	5,632	5,352	5
Income tax expense	1,380	1,364	1
Net income	\$ 4,252	\$ 3,988	7
Effective tax rate	24.5 %	25.5 %	
Net interest yield	2.33	2.41	
Return on average allocated capital	29	28	
Efficiency ratio	70.75	72.04	
Balance Sheet			
Average			
Total loans and leases	\$ 168,910	\$ 161,342	5 %
Total earning assets	279,684	259,808	8
Total assets	292,003	277,220	5
Total deposits	256,505	241,256	6
Allocated capital	14,500	14,500	—
Year end			
Total loans and leases	\$ 176,600	\$ 164,854	7 %
Total earning assets	287,212	287,199	—
Total assets	299,756	305,907	(2)
Total deposits	263,103	268,700	(2)

GWIM consists of two primary businesses: Merrill Lynch Global Wealth Management (MLGWM) and Bank of America Private Bank.

MLGWM's advisory business provides a high-touch client experience through a network of financial advisors focused on clients with over \$250,000 in total investable assets. MLGWM provides tailored solutions to meet clients' needs through a full set of investment management, brokerage, banking and retirement products.

Bank of America Private Bank, together with MLGWM's Private Wealth Management business, provides comprehensive wealth management solutions targeted to high net worth and ultra high net worth clients, as well as customized solutions to meet clients' wealth structuring, investment management, trust and banking needs, including specialty asset management services.

Net income for *GWIM* increased \$264 million to \$4.3 billion due to lower noninterest expense and higher revenue. The operating margin was 29 percent compared to 28 percent in 2018.

Net interest income increased \$239 million to \$6.5 billion due to the impact of growth in deposits and loans.

Noninterest income, which primarily includes investment and brokerage services income, decreased \$155 million to \$13.0 billion. The decrease was primarily driven by declines in AUM pricing and transactional revenue, partially offset by the impact of positive AUM flows and higher market valuations.

Noninterest expense decreased \$192 million to \$13.8 billion, as investments for business growth were more than offset by lower amortization of intangibles and FDIC expense.

The return on average allocated capital was 29 percent, up from 28 percent, due to higher net income.

MLGWM revenue of \$16.1 billion increased one percent primarily driven by higher net interest income and the impact of positive AUM flows and higher market valuations, partially offset by lower transactional volumes and AUM pricing.

Bank of America Private Bank revenue of \$3.4 billion decreased one percent primarily due to lower net interest income.

Key Indicators and Metrics

(Dollars in millions, except as noted)

	2019	2018
Revenue by Business		
Merrill Lynch Global Wealth Management	\$ 16,111	\$ 15,998
Bank of America Private Bank	3,426	3,455
Total revenue, net of interest expense	\$ 19,537	\$ 19,453
Client Balances by Business, at year end		
Merrill Lynch Global Wealth Management	\$ 2,558,102	\$ 2,193,562
Bank of America Private Bank	489,690	427,294
Total client balances	\$ 3,047,792	\$ 2,620,856
Client Balances by Type, at year end		
Assets under management	\$ 1,275,555	\$ 1,072,234
Brokerage and other assets	1,372,733	1,162,997
Deposits	263,103	268,700
Loans and leases (1)	179,296	167,938
Less: Managed deposits in assets under management	(42,895)	(51,013)
Total client balances	\$ 3,047,792	\$ 2,620,856
Assets Under Management Rollforward		
Assets under management, beginning of year	\$ 1,072,234	\$ 1,121,383
Net client flows	24,865	44,607
Market valuation/other	178,456	(93,756)
Total assets under management, end of year	\$ 1,275,555	\$ 1,072,234
Associates, at year end		
Number of financial advisors	17,458	17,518
Total wealth advisors, including financial advisors	19,440	19,459
Total primary sales professionals, including financial advisors and wealth advisors	20,586	20,586
Merrill Lynch Global Wealth Management Metric		
Financial advisor productivity (in thousands)	\$ 1,082	\$ 1,034
Bank of America Private Bank Metric, at year end		
Primary sales professionals	1,766	1,748

(1) Includes margin receivables which are classified in customer and other receivables on the Consolidated Balance Sheet.

Client Balances

Client balances managed under advisory and/or discretion of *GWIM* are AUM and are typically held in diversified portfolios. Fees earned on AUM are calculated as a percentage of clients' AUM balances. The asset management fees charged to clients per year depend on various factors, but are commonly driven by the breadth of the client's relationship. The net client AUM flows represent the

net change in clients' AUM balances over a specified period of time, excluding market appreciation/depreciation and other adjustments.

Client balances increased \$426.9 billion, or 16 percent, to \$3.0 trillion at December 31, 2019 compared to December 31, 2018. The increase in client balances was primarily due to higher market valuations and positive net flows over the last year.

(Dollars in millions)	2019	2018	% Change
Net interest income	\$ 10,675	\$ 10,993	(3)%
Noninterest income:			
Service charges	3,015	3,027	—
Investment banking fees	3,137	2,891	9
All other income	3,656	3,090	18
Total noninterest income	9,808	9,008	9
Total revenue, net of interest expense	20,483	20,001	2
Provision for credit losses	414	8	n/m
Noninterest expense	9,017	8,745	3
Income before income taxes	11,052	11,248	(2)
Income tax expense	2,984	2,923	2
Net income	\$ 8,068	\$ 8,325	(3)
Effective tax rate	27.0 %	26.0 %	
Net interest yield	2.75	3.01	
Return on average allocated capital	20	20	
Efficiency ratio	44.02	43.72	

Balance Sheet

Average			
Total loans and leases	\$ 374,304	\$ 354,236	6 %
Total earning assets	388,152	364,748	6
Total assets	443,083	425,675	4
Total deposits	362,731	336,337	8
Allocated capital	41,000	41,000	—
Year end			
Total loans and leases	\$ 379,268	\$ 365,717	4 %
Total earning assets	407,180	377,812	8
Total assets	464,032	442,330	5
Total deposits	383,180	360,248	6

n/m = not meaningful

Global Banking, which includes Global Corporate Banking, Global Commercial Banking, Business Banking and Global Investment Banking, provides a wide range of lending-related products and services, integrated working capital management and treasury solutions, and underwriting and advisory services through our network of offices and client relationship teams. Our lending products and services include commercial loans, leases, commitment facilities, trade finance, commercial real estate lending and asset-based lending. Our treasury solutions business includes treasury management, foreign exchange and short-term investing options. We also provide investment banking products to our clients such as debt and equity underwriting and distribution, and merger-related and other advisory services. Underwriting debt and equity issuances, fixed-income and equity research, and certain market-based activities are executed through our global broker-dealer affiliates, which are our primary dealers in several countries. Within *Global Banking*, Global Commercial Banking clients generally include middle-market companies, commercial real estate firms and not-for-profit companies. Global Corporate Banking clients generally include large global corporations, financial institutions and leasing clients. Business Banking clients include mid-sized U.S.-based businesses requiring customized and integrated financial advice and solutions.

Net income for *Global Banking* decreased \$257 million to \$8.1 billion in 2019 compared to 2018 primarily driven by higher provision for credit losses and noninterest expense partially offset by higher revenue.

Revenue increased \$482 million to \$20.5 billion driven by higher noninterest income, partially offset by lower net interest income. Net interest income decreased \$318 million to \$10.7 billion primarily due to the allocation of ALM results and credit spread compression, partly offset by growth in loan and deposit balances.

Noninterest income increased \$800 million to \$9.8 billion primarily due to higher leasing-related revenue and investment banking fees. The provision for credit losses increased \$406 million to \$414 million primarily driven by reserve releases in 2018 primarily from energy exposures. Noninterest expense increased \$272 million primarily due to continued investment in the business partially offset by lower FDIC expense.

The return on average allocated capital was 20 percent in 2019 and 2018. For information on capital allocated to the business segments, see Business Segment Operations on page 32.

Global Corporate, Global Commercial and Business Banking

Global Corporate, Global Commercial and Business Banking each include Business Lending and Global Transaction Services activities. Business Lending includes various lending-related products and services, and related hedging activities, including commercial loans, leases, commitment facilities, trade finance, real estate lending and asset-based lending. Global Transaction Services includes deposits, treasury management, credit card, foreign exchange and short-term investment products.

The table below and following discussion present a summary of the results, which exclude certain investment banking activities in *Global Banking*.

Global Corporate, Global Commercial and Business Banking

(Dollars in millions)	Global Corporate Banking		Global Commercial Banking		Business Banking		Total	
	2019	2018	2019	2018	2019	2018	2019	2018
Revenue								
Business Lending	\$ 3,994	\$ 3,904	\$ 4,132	\$ 4,330	\$ 363	\$ 431	\$ 8,489	\$ 8,665
Global Transaction Services	3,994	3,832	3,499	3,346	1,064	987	8,557	8,165
Total revenue, net of interest expense	\$ 7,988	\$ 7,736	\$ 7,631	\$ 7,676	\$ 1,427	\$ 1,418	\$ 17,046	\$ 16,830

Balance Sheet

Average

Total loans and leases	\$ 177,713	\$ 163,516	\$ 181,485	\$ 174,279	\$ 15,058	\$ 16,432	\$ 374,256	\$ 354,227
Total deposits	177,924	163,559	144,620	135,337	40,196	37,462	362,740	336,358

Year end

Total loans and leases	\$ 181,409	\$ 174,378	\$ 182,727	\$ 175,937	\$ 15,152	\$ 15,402	\$ 379,288	\$ 365,717
Total deposits	185,352	173,183	157,322	149,118	40,504	37,973	383,178	360,274

Business Lending revenue decreased \$176 million in 2019 compared to 2018. The decrease was primarily driven by the allocation of ALM results, partly offset by higher leasing-related revenue.

Global Transaction Services revenue increased \$392 million in 2019 compared to 2018 driven by the impact of higher deposit balances.

Average loans and leases increased six percent in 2019 compared to 2018 driven by growth in the commercial and industrial portfolio. Average deposits increased eight percent due to growth in domestic and international interest-bearing balances.

Global Investment Banking

Client teams and product specialists underwrite and distribute debt, equity and loan products, and provide advisory services and tailored risk management solutions. The economics of certain investment banking and underwriting activities are shared primarily between *Global Banking* and *Global Markets* under an internal revenue-sharing arrangement. *Global Banking* originates certain deal-related transactions with our corporate and commercial clients that are executed and distributed by *Global Markets*. To provide a complete discussion of our consolidated investment

banking fees, the following table presents total Corporation investment banking fees and the portion attributable to *Global Banking*.

Investment Banking Fees

(Dollars in millions)	Global Banking		Total Corporation	
	2019	2018	2019	2018
Products				
Advisory	\$ 1,336	\$ 1,153	\$ 1,460	\$ 1,258
Debt issuance	1,348	1,326	3,107	3,084
Equity issuance	453	412	1,259	1,183
Gross investment banking fees	3,137	2,891	5,826	5,525
Self-led deals	(62)	(68)	(184)	(198)
Total investment banking fees	\$ 3,075	\$ 2,823	\$ 5,642	\$ 5,327

Total Corporation investment banking fees, excluding self-led deals, of \$5.6 billion, which are primarily included within *Global Banking* and *Global Markets*, increased six percent due to increases in advisory fees as well as higher equity issuance fees.

Global Markets

(Dollars in millions)	2019	2018	% Change
Net interest income	\$ 3,915	\$ 3,857	2 %
Noninterest income:			
Investment and brokerage services	1,738	1,780	(2)
Investment banking fees	2,288	2,296	—
Market making and similar activities	7,065	7,260	(3)
All other income	608	990	(39)
Total noninterest income	11,699	12,326	(5)
Total revenue, net of interest expense	15,614	16,183	(4)
Provision for credit losses	(9)	—	n/m
Noninterest expense	10,722	10,835	(1)
Income before income taxes	4,901	5,348	(8)
Income tax expense	1,397	1,390	1
Net income	\$ 3,504	\$ 3,958	(11)
Effective tax rate	28.5 %	26.0 %	
Return on average allocated capital	10	11	
Efficiency ratio	68.67	66.96	

Balance Sheet

Average

Trading-related assets:			
Trading account securities	\$ 246,335	\$ 215,112	15 %
Reverse repurchases	116,883	125,084	(7)
Securities borrowed	83,216	78,889	5
Derivative assets	43,271	46,047	(6)
Total trading-related assets	489,705	465,132	5
Total loans and leases	71,334	72,651	(2)
Total earning assets	476,225	473,383	1
Total assets	679,297	666,000	2
Total deposits	31,380	31,209	1
Allocated capital	35,000	35,000	—

Year end

Total trading-related assets	\$ 452,496	\$ 447,998	1 %
Total loans and leases	72,993	73,928	(1)
Total earning assets	471,701	457,224	3
Total assets	641,806	641,923	—
Total deposits	34,676	37,841	(8)

n/m = not meaningful

Global Markets offers sales and trading services and research services to institutional clients across fixed-income, credit, currency, commodity and equity businesses. *Global Markets* product coverage includes securities and derivative products in both the primary and secondary markets. *Global Markets* provides market-making, financing, securities clearing, settlement and custody services globally to our institutional investor clients in support of their investing and trading activities. We also work with our commercial and corporate clients to provide risk management products using interest rate, equity, credit, currency and commodity derivatives, foreign exchange, fixed-income and mortgage-related products. As a result of our market-making activities in these products, we may be required to manage risk in a broad range of financial products including government securities, equity and equity-linked securities, high-grade and high-yield corporate debt securities, syndicated loans, MBS, commodities and asset-backed securities. The economics of certain investment banking and underwriting activities are shared primarily between *Global Markets* and *Global Banking* under an internal revenue-sharing arrangement. *Global Banking* originates certain deal-related transactions with our corporate and commercial clients that are executed and distributed by *Global Markets*. For information on investment banking fees on a consolidated basis, see page 38.

The following explanations for year-over-year changes in results for *Global Markets*, including those disclosed under Sales and Trading Revenue, exclude net DVA, but the explanations would be the same if net DVA was included.

Net income for *Global Markets* decreased \$454 million to \$3.5 billion in 2019 compared to 2018. Net DVA losses were \$222 million compared to losses of \$162 million in 2018. Excluding net DVA, net income decreased \$408 million to \$3.7 billion. These decreases were primarily driven by a decrease in revenue, partially offset by lower noninterest expense.

Revenue declined \$569 million to \$15.6 billion as sales and trading revenue decreased \$492 million, and excluding net DVA, decreased \$432 million. These decreases were primarily driven by a decline in Equities revenue. Noninterest expense decreased \$113 million to \$10.7 billion, primarily driven by lower revenue-related expenses.

Average total assets increased \$13.3 billion to \$679.3 billion, primarily due to increased levels of inventory in fixed-income, currencies and commodities (FICC) to facilitate expected client demand. Year-end total assets were largely unchanged at \$641.8 billion.

The return on average allocated capital was 10 percent, down from 11 percent, reflecting lower net income. For information on

capital allocated to the business segments, see Business Segment Operations on page 32.

Sales and Trading Revenue

Sales and trading revenue includes unrealized and realized gains and losses on trading and other assets which are included in market making and similar activities, net interest income, and fees primarily from commissions on equity securities. Sales and trading revenue is segregated into fixed-income (government debt obligations, investment and non-investment grade corporate debt obligations, commercial MBS, residential mortgage-backed securities, collateralized loan obligations, interest rate and credit derivative contracts), currencies (interest rate and foreign exchange contracts), commodities (primarily futures, forwards, swaps and options) and equities (equity-linked derivatives and cash equity activity). The following table and related discussion present sales and trading revenue, substantially all of which is in *Global Markets*, with the remainder in *Global Banking*. In addition, the following table and related discussion present sales and trading revenue, excluding net DVA, which is a non-GAAP financial measure. For more information on net DVA, see Supplemental Financial Data on page 27.

Sales and Trading Revenue (1, 2, 3)

(Dollars in millions)	2019	2018
Sales and trading revenue (2)		
Fixed-income, currencies and commodities	\$ 8,188	\$ 8,271
Equities	4,491	4,900
Total sales and trading revenue	\$ 12,679	\$ 13,171
Sales and trading revenue, excluding net DVA (4)		
Fixed-income, currencies and commodities	\$ 8,396	\$ 8,413
Equities	4,505	4,920
Total sales and trading revenue, excluding net DVA	\$ 12,901	\$ 13,333

(1) For more information on sales and trading revenue, see Note 3 – Derivatives to the Consolidated Financial Statements.

(2) Includes FTE adjustments of \$189 million and \$248 million for 2019 and 2018.

(3) Includes *Global Banking* sales and trading revenue of \$533 million and \$421 million for 2019 and 2018.

(4) FICC and Equities sales and trading revenue, excluding net DVA, is a non-GAAP financial measure. FICC net DVA losses were \$208 million and \$142 million for 2019 and 2018. Equities net DVA losses were \$14 million and \$20 million for 2019 and 2018.

FICC revenue decreased \$17 million. Equities revenue decreased \$415 million driven by under performance in equity derivatives compared to a strong prior year which benefited from higher client activity and a more volatile market environment.

All Other

(Dollars in millions)	2019	2018	% Change
Net interest income	\$ 234	\$ 632	(63)%
Noninterest income (loss)	(2,616)	(2,257)	16
Total revenue, net of interest expense	(2,382)	(1,625)	47
Provision for credit losses	(669)	(476)	41
Noninterest expense	3,720	1,887	97
Loss before income taxes	(5,433)	(3,036)	79
Income tax benefit	(4,055)	(2,780)	46
Net loss	\$ (1,378)	\$ (256)	n/m

Balance Sheet

Average

Total loans and leases	\$ 42,933	\$ 61,013	(30)%
Total assets (1)	210,771	199,978	5
Total deposits	21,434	21,966	(2)

Year end

Total loans and leases	\$ 37,151	\$ 48,061	(23)%
Total assets (1)	224,466	195,466	15
Total deposits	23,166	18,541	25

(1) In segments where the total of liabilities and equity exceeds assets, which are generally deposit-taking segments, we allocate assets from *All Other* to those segments to match liabilities (i.e., deposits) and allocated shareholders' equity. Average allocated assets were \$44.2 billion and \$517.0 billion for 2019 and 2018, and year-end allocated assets were \$565.3 billion and \$540.8 billion at December 31, 2019 and 2018.

n/m = not meaningful

All Other consists of ALM activities, equity investments, non-core mortgage loans and servicing activities, liquidating businesses and certain expenses not otherwise allocated to a business segment. ALM activities encompass certain residential mortgages, debt securities, and interest rate and foreign currency risk management activities. Substantially all of the results of ALM activities are allocated to our business segments. For more information on our ALM activities, see Note 24 – Business Segment Information to the Consolidated Financial Statements. Equity investments include our merchant services joint venture, as well as a portfolio of equity, real estate and other alternative investments. For information on our merchant services joint venture, see Note 13 – Commitments and Contingencies to the Consolidated Financial Statements.

Residential mortgage loans that are held for ALM purposes, including interest rate or liquidity risk management, are classified as core and are presented on the balance sheet of *All Other*. During 2019, residential mortgage loans held for ALM activities decreased \$3.2 billion to \$21.7 billion primarily as a result of payoffs and paydowns. Non-core residential mortgage and home equity loans, which are principally runoff portfolios, are also held in *All Other*. During 2019, total non-core loans decreased \$7.8 billion to \$15.7 billion due primarily to payoffs, paydowns and sales, as well as Federal Housing Administration (FHA) loan conveyances, partially offset by repurchases. For more information on the composition of the core and non-core portfolios, see Consumer Portfolio Credit Risk Management on page 54.

The net loss for All Other increased \$1.1 billion to a net loss of \$1.4 billion, primarily driven by the \$2.1 billion pretax impairment charge disclosed in Executive Summary – Recent Developments – Merchant Services Joint Venture, as well as lower revenue, partially offset by a higher benefit in the provision for credit losses.

Revenue decreased \$757 million due to lower net interest income and an increase in the loss in noninterest income. Net interest income decreased \$398 million due to the impact of non-core consumer real estate loan sales and portfolio run-off. The loss in noninterest income increased \$359 million primarily due to lower gains on sales of non-core consumer loans and higher partnership losses associated with an increase in tax-advantaged investments, partially offset by a \$729 million charge related to the redemption of certain trust preferred securities in 2018.

Noninterest expense increased \$1.8 billion to \$3.7 billion primarily due to the aforementioned \$2.1 billion pretax impairment charge.

The income tax benefit was \$4.1 billion compared to a benefit of \$2.8 billion in 2018. The increase in the tax benefit was primarily driven by the tax effect of the higher pretax loss, the positive impact from the resolution of various tax controversy matters and a higher level of income tax credits. Both years included income tax benefit adjustments to eliminate the FTE treatment of certain tax credits recorded in *Global Banking*.

Off-Balance Sheet Arrangements and Contractual Obligations

We have contractual obligations to make future payments on debt and lease agreements. Additionally, in the normal course of business, we enter into contractual arrangements whereby we commit to future purchases of products or services from unaffiliated parties. Purchase obligations are defined as obligations that are legally binding agreements whereby we agree

to purchase products or services with a specific minimum quantity at a fixed, minimum or variable price over a specified period of time. Included in purchase obligations are vendor contracts, the most significant of which include communication services, processing services and software contracts. Debt, lease and other obligations are more fully discussed in *Note 12 – Long-term Debt* and *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements.

Other long-term liabilities include our contractual funding obligations related to the Non-U.S. Pension Plans and Nonqualified and Other Pension Plans (together, the Plans). Obligations to the Plans are based on the current and projected obligations of the Plans, performance of the Plans' assets, and any participant contributions, if applicable. During 2019 and 2018, we contributed \$135 million and \$156 million to the Plans, and we expect to make \$128 million of contributions during 2020. The Plans are more fully discussed in *Note 18 – Employee Benefit Plans* to the Consolidated Financial Statements.

We enter into commitments to extend credit such as loan commitments, standby letters of credit (SBLCs) and commercial letters of credit to meet the financing needs of our customers. For a summary of the total unfunded, or off-balance sheet, credit extension commitment amounts by expiration date, see *Credit Extension Commitments* in *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements.

We also utilize variable interest entities (VIEs) in the ordinary course of business to support our financing and investing needs as well as those of our customers. For more information on our involvement with unconsolidated VIEs, see *Note 7 – Securitizations and Other Variable Interest Entities* to the Consolidated Financial Statements.

Table 10 includes certain contractual obligations at December 31, 2019 and 2018.

Table 10 Contractual Obligations

	December 31, 2019					December 31 2018
	Due in One Year or Less	Due After One Year Through Three Years	Due After Three Years Through Five Years	Due After Five Years	Total	Total
(Dollars in millions)						
Long-term debt	\$ 24,151	\$ 46,049	\$ 47,096	\$ 123,560	\$ 240,856	\$ 229,392
Operating lease obligations	1,966	3,265	2,338	4,225	11,794	15,770
Purchase obligations	1,272	1,126	401	731	3,530	4,048
Time deposits	68,351	4,612	1,463	247	74,673	61,039
Other long-term liabilities	1,670	1,056	714	659	4,099	3,933
Estimated interest expense on long-term debt and time deposits ⁽¹⁾	5,571	8,073	6,870	23,871	44,385	56,852
Total contractual obligations	\$ 102,981	\$ 64,181	\$ 58,882	\$ 153,293	\$ 379,337	\$ 371,034

⁽¹⁾ Represents forecasted net interest expense on long-term debt and time deposits based on interest rates at December 31, 2019 and 2018. Forecasts are based on the contractual maturity dates of each liability, and are net of derivative hedges, where applicable.

Representations and Warranties Obligations

For information on representations and warranties obligations in connection with the sale of mortgage loans, see *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements.

Managing Risk

Overview

Risk is inherent in all our business activities. Sound risk management enables us to serve our customers and deliver for our shareholders. If not managed well, risks can result in financial loss, regulatory sanctions and penalties, and damage to our reputation, each of which may adversely impact our ability to execute our business strategies. We take a comprehensive approach to risk management with a defined Risk Framework and an articulated Risk Appetite Statement which are approved annually by the Enterprise Risk Committee (ERC) and the Board.

The seven key types of risk faced by the Corporation are strategic, credit, market, liquidity, compliance, operational and reputational.

- Strategic risk is the risk resulting from incorrect assumptions about external or internal factors, inappropriate business plans, ineffective business strategy execution, or failure to respond in a timely manner to changes in the regulatory, macroeconomic or competitive environments in the geographic locations in which we operate.
- Credit risk is the risk of loss arising from the inability or failure of a borrower or counterparty to meet its obligations.
- Market risk is the risk that changes in market conditions may adversely impact the value of assets or liabilities, or otherwise negatively impact earnings.
- Liquidity risk is the inability to meet expected or unexpected cash flow and collateral needs while continuing to support our businesses and customers under a range of economic conditions.
- Compliance risk is the risk of legal or regulatory sanctions, material financial loss or damage to the reputation of the Corporation arising from the failure of the Corporation to comply with the requirements of applicable laws, rules and regulations and our internal policies and procedures.
- Operational risk is the risk of loss resulting from inadequate or failed processes, people and systems, or from external events.
- Reputational risk is the risk that negative perceptions of the Corporation's conduct or business practices may adversely impact its profitability or operations.

The following sections address in more detail the specific procedures, measures and analyses of the major categories of risk. This discussion of managing risk focuses on the current Risk Framework that, as part of its annual review process, was approved by the ERC and the Board.

As set forth in our Risk Framework, a culture of managing risk well is fundamental to fulfilling our purpose and our values and delivering responsible growth. It requires us to focus on risk in all activities and encourages the necessary mindset and behavior to enable effective risk management, and promotes sound risk-taking within our risk appetite. Sustaining a culture of managing risk well

throughout the organization is critical to our success and is a clear expectation of our executive management team and the Board.

Our Risk Framework serves as the foundation for the consistent and effective management of risks facing the Corporation. The Risk Framework sets forth clear roles, responsibilities and accountability for the management of risk and provides a blueprint for how the Board, through delegation of authority to committees and executive officers, establishes risk appetite and associated limits for our activities.

Executive management assesses, with Board oversight, the risk-adjusted returns of each business. Management reviews and approves the strategic and financial operating plans, as well as the capital plan and Risk Appetite Statement, and recommends them annually to the Board for approval. Our strategic plan takes into consideration return objectives and financial resources, which must align with risk capacity and risk appetite. Management sets financial objectives for each business by allocating capital and setting a target for return on capital for each business. Capital allocations and operating limits are regularly evaluated as part of our overall governance processes as the businesses and the economic environment in which we operate continue to evolve. For more information regarding capital allocations, see Business Segment Operations on page 32.

The Corporation's risk appetite indicates the amount of capital, earnings or liquidity we are willing to put at risk to achieve our strategic objectives and business plans, consistent with applicable regulatory requirements. Our risk appetite provides a common and comparable set of measures for senior management and the Board to clearly indicate our aggregate level of risk and to monitor whether the Corporation's risk profile remains in alignment with our strategic and capital plans. Our risk appetite is formally articulated in the Risk Appetite Statement, which includes both qualitative components and quantitative limits.

Our overall capacity to take risk is limited; therefore, we prioritize the risks we take in order to maintain a strong and flexible financial position so we can withstand challenging economic conditions and take advantage of organic growth opportunities. Therefore, we set objectives and targets for capital and liquidity that are intended to permit us to continue to operate in a safe and sound manner, including during periods of stress.

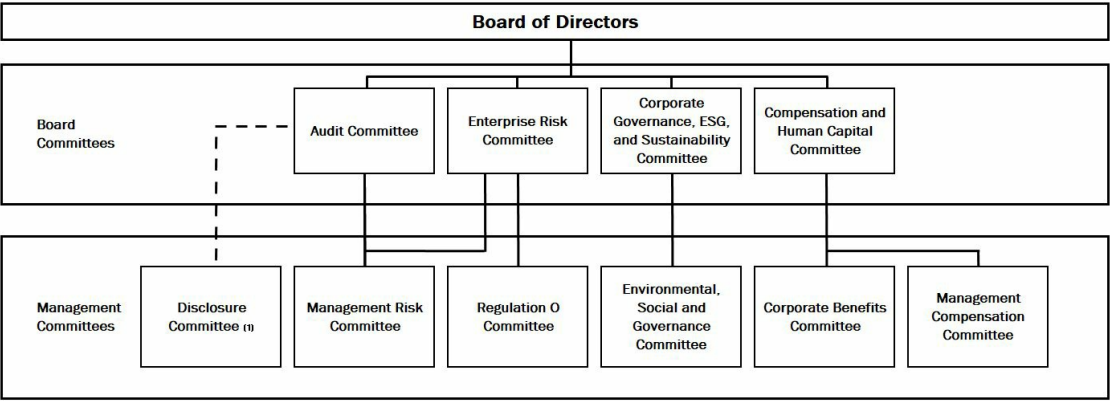
Our lines of business operate with risk limits (which may include credit, market and/or operational limits, as applicable) that align with the Corporation's risk appetite. Executive management is responsible for tracking and reporting performance measurements as well as any exceptions to guidelines or limits. The Board, and its committees when appropriate, oversee financial performance, execution of the strategic and financial operating plans, adherence to risk appetite limits and the adequacy of internal controls.

For a more detailed discussion of our risk management activities, see the discussion below and pages 45 through 77.

Risk Management Governance

The Risk Framework describes delegations of authority whereby the Board and its committees may delegate authority to management-level committees or executive officers. Such delegations may authorize certain decision-making and approval functions, which may be evidenced in, for example, committee charters, job descriptions, meeting minutes and resolutions.

The chart below illustrates the inter-relationship among the Board, Board committees and management committees that have the majority of risk oversight responsibilities for the Corporation.



(1) Reports to the CEO and CFO with oversight by the Audit Committee

Board of Directors and Board Committees

The Board is composed of 17 directors, all but one of whom are independent. The Board authorizes management to maintain an effective Risk Framework, and oversees compliance with safe and sound banking practices. In addition, the Board or its committees conduct inquiries of, and receive reports from management on risk-related matters to assess scope or resource limitations that could impede the ability of Independent Risk Management (IRM) and/or Corporate Audit to execute its responsibilities. The Board committees discussed below have the principal responsibility for enterprise-wide oversight of our risk management activities. Through these activities, the Board and applicable committees are provided with information on our risk profile and oversee executive management addressing key risks we face. Other Board committees, as described below, provide additional oversight of specific risks.

Each of the committees shown on the above chart regularly reports to the Board on risk-related matters within the committee's responsibilities, which is intended to collectively provide the Board with integrated insight about our management of enterprise-wide risks.

Audit Committee

The Audit Committee oversees the qualifications, performance and independence of the Independent Registered Public Accounting Firm, the performance of our corporate audit function, the integrity of our consolidated financial statements, our compliance with legal and regulatory requirements, and makes inquiries of management or the Chief Audit Executive (CAE) to determine whether there are scope or resource limitations that impede the ability of Corporate Audit to execute its responsibilities. The Audit Committee is also responsible for overseeing compliance risk pursuant to the New York Stock Exchange listing standards.

Enterprise Risk Committee

The ERC has primary responsibility for oversight of the Risk Framework and key risks we face and of the Corporation's overall risk appetite. It approves the Risk Framework and the Risk Appetite Statement and further recommends these documents to the Board for approval. The ERC oversees senior management's responsibilities for the identification, measurement, monitoring and control of key risks we face. The ERC may consult with other Board committees on risk-related matters.

Other Board Committees

Our Corporate Governance, ESG, and Sustainability Committee oversees our Board's governance processes, identifies and reviews the qualifications of potential Board members, recommends nominees for election to our Board, recommends committee appointments for Board approval and reviews our Environmental, Social and Governance and stockholder engagement activities.

Our Compensation and Human Capital Committee oversees establishing, maintaining and administering our compensation programs and employee benefit plans, including approving and recommending our Chief Executive Officer's (CEO) compensation to our Board for further approval by all independent directors; reviewing and approving all of our executive officers' compensation, as well as compensation for non-management directors; and reviewing certain other human capital management topics.

Management Committees

Management committees may receive their authority from the Board, a Board committee, another management committee or from one or more executive officers. Our primary management-level risk committee is the Management Risk Committee (MRC). Subject to Board oversight, the MRC is responsible for management oversight of key risks facing the Corporation. This includes providing management oversight of our compliance and operational risk programs, balance sheet and capital management, funding activities and other liquidity activities, stress testing, trading activities, recovery and resolution planning, model risk, subsidiary governance and activities between member banks and their nonbank affiliates pursuant to Federal Reserve rules and regulations, among other things.

Lines of Defense

We have clear ownership and accountability across three lines of defense: Front Line Units (FLUs), IRM and Corporate Audit. We also have control functions outside of FLUs and IRM (e.g., Legal and Global Human Resources). The three lines of defense are integrated into our management-level governance structure. Each of these functional roles is described in more detail below.

Executive Officers

Executive officers lead various functions representing the functional roles. Authority for functional roles may be delegated to executive officers from the Board, Board committees or management-level committees. Executive officers, in turn, may further delegate responsibilities, as appropriate, to management-level committees, management routines or individuals. Executive officers review our activities for consistency with our Risk Framework, Risk Appetite Statement and applicable strategic, capital and financial operating plans, as well as applicable policies, standards, procedures and processes. Executive officers and other employees make decisions individually on a day-to-day basis, consistent with the authority they have been delegated. Executive officers and other employees may also serve on committees and participate in committee decisions.

Front Line Units

FLUs, which include the lines of business as well as the Global Technology and Operations Group, are responsible for appropriately assessing and effectively managing all of the risks associated with their activities.

Three organizational units that include FLU activities and control function activities, but are not part of IRM are first, the Chief Financial Officer (CFO) Group; second, Environmental, Social and Governance (ESG), Capital Deployment (CD) and Public Policy (PP); and third, the Chief Administrative Officer (CAO) Group.

Independent Risk Management

IRM is part of our control functions and includes Global Risk Management. We have other control functions that are not part of IRM (other control functions may also provide oversight to FLU activities), including Legal, Global Human Resources and certain activities within the CFO Group; ESG, CD and PP; and CAO Group. IRM, led by the Chief Risk Officer (CRO), is responsible for independently assessing and overseeing risks within FLUs and other control functions. IRM establishes written enterprise policies and procedures that include concentration risk limits, where appropriate. Such policies and procedures outline how aggregate risks are identified, measured, monitored and controlled.

The CRO has the stature, authority and independence to develop and implement a meaningful risk management framework. The CRO has unrestricted access to the Board and reports directly to both the ERC and to the CEO. Global Risk Management is organized into horizontal risk teams that cover a specific risk area and vertical CRO teams that cover a particular front line unit or control function. These teams work collaboratively in executing their respective duties.

Corporate Audit

Corporate Audit and the CAE maintain their independence from the FLUs, IRM and other control functions by reporting directly to the Audit Committee or the Board. The CAE administratively reports to the CEO. Corporate Audit provides independent assessment and validation through testing of key processes and controls across the Corporation. Corporate Audit includes Credit Review which periodically tests and examines credit portfolios and processes.

Risk Management Processes

The Risk Framework requires that strong risk management practices are integrated in key strategic, capital and financial planning processes and in day-to-day business processes across the Corporation, with a goal of ensuring risks are appropriately considered, evaluated and responded to in a timely manner.

We employ our risk management process, referred to as Identify, Measure, Monitor and Control, as part of our daily activities.

Identify – To be effectively managed, risks must be clearly defined and proactively identified. Proper risk identification focuses on recognizing and understanding key risks inherent in our business activities or key risks that may arise from external factors. Each employee is expected to identify and escalate risks promptly. Risk identification is an ongoing process, incorporating input from FLUs and control functions, designed to be forward looking and capture relevant risk factors across all of our lines of business.

Measure – Once a risk is identified, it must be prioritized and accurately measured through a systematic risk quantification process including quantitative and qualitative components. Risk is measured at various levels including, but not limited to, risk type, FLU, legal entity and on an aggregate basis. This risk quantification process helps to capture changes in our risk profile due to changes in strategic direction, concentrations, portfolio quality and the overall economic environment. Senior management considers how risk exposures might evolve under a variety of stress scenarios.

Monitor – We monitor risk levels regularly to track adherence to risk appetite, policies, standards, procedures and processes. We also regularly update risk assessments and review risk exposures. Through our monitoring, we can determine our level of risk relative to limits and can take action in a timely manner. We also can determine when risk limits are breached and have processes to appropriately report and escalate exceptions. This includes requests for approval to managers and alerts to executive management, management-level committees or the Board (directly or through an appropriate committee).

Control – We establish and communicate risk limits and controls through policies, standards, procedures and processes that define the responsibilities and authority for risk-taking. The limits and controls can be adjusted by the Board or management when conditions or risk tolerances warrant. These limits may be absolute (e.g., loan amount, trading volume) or relative (e.g., percentage of loan book in higher-risk categories). Our lines of business are held accountable to perform within the established limits.

The formal processes used to manage risk represent a part of our overall risk management process. We instill a strong and comprehensive culture of managing risk well through communications, training, policies, procedures and organizational roles and responsibilities. Establishing a culture reflective of our purpose to help make our customers' financial lives better and delivering our responsible growth strategy is also critical to effective risk management. We understand that improper actions, behaviors or practices that are illegal, unethical or contrary to our core values could result in harm to the Corporation, our shareholders or our customers, damage the integrity of the financial markets, or negatively impact our reputation, and have established protocols and structures so that such conduct risk is governed and reported across the Corporation. Specifically, our Code of Conduct provides a framework for all of our employees to conduct themselves with the highest integrity. Additionally, we continue to strengthen the link between the employee performance management process and individual compensation to encourage employees to work toward enterprise-wide risk goals.

Corporation-wide Stress Testing

Integral to our Capital Planning, Financial Planning and Strategic Planning processes, we conduct capital scenario management and stress forecasting on a periodic basis to better understand balance sheet, earnings and capital sensitivities to certain economic and business scenarios, including economic and market conditions that are more severe than anticipated. These stress forecasts provide an understanding of the potential impacts from our risk profile on the balance sheet, earnings and capital, and serve as a key component of our capital and risk management practices. The intent of stress testing is to develop a comprehensive understanding of potential impacts of on- and off-balance sheet risks at the Corporation and how they impact financial resiliency, which provides confidence to management, regulators and our investors.

Contingency Planning

We have developed and maintain contingency plans that are designed to prepare us in advance to respond in the event of potential adverse economic, financial or market stress. These contingency plans include our Capital Contingency Plan and Financial Contingency and Recovery Plan, which provide monitoring, escalation, actions and routines designed to enable us to increase capital, access funding sources and reduce risk through consideration of potential options that include asset sales, business sales, capital or debt issuances, or other de-risking strategies. We also maintain a Resolution Plan to limit adverse systemic impacts that could be associated with a potential resolution of Bank of America.

Strategic Risk Management

Strategic risk is embedded in every business and is one of the major risk categories along with credit, market, liquidity, compliance, operational and reputational risks. This risk results from incorrect assumptions about external or internal factors, inappropriate business plans, ineffective business strategy execution, or failure to respond in a timely manner to changes in the regulatory, macroeconomic or competitive environments, in the geographic locations in which we operate, such as competitor actions, changing customer preferences, product obsolescence and technology developments. Our strategic plan is consistent with our risk appetite, capital plan and liquidity requirements, and specifically addresses strategic risks.

On an annual basis, the Board reviews and approves the strategic plan, capital plan, financial operating plan and Risk Appetite Statement. With oversight by the Board, executive management directs the lines of business to execute our strategic plan consistent with our core operating principles and risk appetite. The executive management team monitors business performance throughout the year and provides the Board with regular progress reports on whether strategic objectives and timelines are being met, including reports on strategic risks and if additional or alternative actions need to be considered or implemented. The regular executive reviews focus on assessing forecasted earnings and returns on capital, the current risk profile, current capital and liquidity requirements, staffing levels and changes required to support the strategic plan, stress testing results, and other qualitative factors such as market growth rates and peer analysis.

Significant strategic actions, such as capital actions, material acquisitions or divestitures, and resolution plans are reviewed and approved by the Board. At the business level, processes are in place to discuss the strategic risk implications of new, expanded or modified businesses, products or services and other strategic initiatives, and to provide formal review and approval where required. With oversight by the Board and the ERC, executive

management performs similar analyses throughout the year, and evaluates changes to the financial forecast or the risk, capital or liquidity positions as deemed appropriate to balance and optimize achieving the targeted risk appetite, shareholder returns and maintaining the targeted financial strength. Proprietary models are used to measure the capital requirements for credit, country, market, operational and strategic risks. The allocated capital assigned to each business is based on its unique risk profile. With oversight by the Board, executive management assesses the risk-adjusted returns of each business in approving strategic and financial operating plans. The businesses use allocated capital to define business strategies, and price products and transactions.

Capital Management

The Corporation manages its capital position so that its capital is more than adequate to support its business activities and aligns with risk, risk appetite and strategic planning. Additionally, we seek to maintain safety and soundness at all times, even under adverse scenarios, take advantage of organic growth opportunities, meet obligations to creditors and counterparties, maintain ready access to financial markets, continue to serve as a credit intermediary, remain a source of strength for our subsidiaries, and satisfy current and future regulatory capital requirements. Capital management is integrated into our risk and governance processes, as capital is a key consideration in the development of our strategic plan, risk appetite and risk limits.

We conduct an Internal Capital Adequacy Assessment Process (ICAAP) on a periodic basis. The ICAAP is a forward-looking assessment of our projected capital needs and resources, incorporating earnings, balance sheet and risk forecasts under baseline and adverse economic and market conditions. We utilize periodic stress tests to assess the potential impacts to our balance sheet, earnings, regulatory capital and liquidity under a variety of stress scenarios. We perform qualitative risk assessments to identify and assess material risks not fully captured in our forecasts or stress tests. We assess the potential capital impacts of proposed changes to regulatory capital requirements. Management assesses ICAAP results and provides documented quarterly assessments of the adequacy of our capital guidelines and capital position to the Board or its committees.

We periodically review capital allocated to our businesses and allocate capital annually during the strategic and capital planning processes. For more information, see Business Segment Operations on page 32.

CCAR and Capital Planning

The Federal Reserve requires BHCs to submit a capital plan and requests for capital actions on an annual basis, consistent with the rules governing the Comprehensive Capital Analysis and Review (CCAR) capital plan.

On June 27, 2019, following the Federal Reserve's non-objection to our 2019 CCAR capital plan, the Board authorized the repurchase of approximately \$30.9 billion in common stock from July 1, 2019 through June 30, 2020, which includes approximately \$900 million to offset shares awarded under equity-based compensation plans during the same period. During 2019, pursuant to the Board's authorizations, including those related to our 2018 CCAR capital plan that expired June 30, 2019, we repurchased \$28.1 billion of common stock, which includes common stock repurchases to offset equity-based compensation awards. At December 31, 2019, our remaining stock repurchase authorization was \$15.6 billion.

Our stock repurchases are subject to various factors, including the Corporation's capital position, liquidity, financial performance and alternative uses of capital, stock trading price and general

market conditions, and may be suspended at any time. The repurchases may be effected through open market purchases or privately negotiated transactions, including repurchase plans that satisfy the conditions of Rule 10b5-1 of the Securities Exchange Act of 1934, as amended (Exchange Act).

Regulatory Capital

As a financial services holding company, we are subject to regulatory capital rules, including Basel 3, issued by U.S. banking regulators. Basel 3 established minimum capital ratios and buffer requirements and outlined two methods of calculating risk-weighted assets, the Standardized approach and the Advanced approaches. The Standardized approach relies primarily on supervisory risk weights based on exposure type, and the Advanced approaches determine risk weights based on internal models.

The Corporation's depository institution subsidiaries are also subject to the Prompt Corrective Action (PCA) framework. The Corporation and its primary affiliated banking entity, BANA, are Advanced approaches institutions under Basel 3 and are required to report regulatory risk-based capital ratios and risk-weighted assets under both the Standardized and Advanced approaches. The approach that yields the lower ratio is used to assess capital adequacy including under the PCA framework. As of December 31, 2019, the Common equity tier 1 (CET1) and Tier 1 capital ratios for the Corporation were lower under the Standardized approach whereas the Advanced approaches yielded a lower Total capital ratio.

Minimum Capital Requirements

Minimum capital requirements and related buffers were fully phased in as of January 1, 2019. The PCA framework established categories of capitalization, including well capitalized, based on

the Basel 3 regulatory ratio requirements. U.S. banking regulators are required to take certain mandatory actions depending on the category of capitalization, with no mandatory actions required for well-capitalized banking organizations.

In order to avoid restrictions on capital distributions and discretionary bonus payments, the Corporation must meet risk-based capital ratio requirements that include a capital conservation buffer greater than 2.5 percent, plus any applicable countercyclical capital buffer and a global systemically important bank (G-SIB) surcharge. The buffers and surcharge must be comprised solely of CET1 capital.

The Corporation is also required to maintain a minimum supplementary leverage ratio (SLR) of 3.0 percent plus a leverage buffer of 2.0 percent in order to avoid certain restrictions on capital distributions and discretionary bonus payments. Our insured depository institution subsidiaries are required to maintain a minimum 6.0 percent SLR to be considered well capitalized under the PCA framework. The numerator of the SLR is quarter-end Basel 3 Tier 1 capital. The denominator is total leverage exposure based on the daily average of the sum of on-balance sheet exposures less permitted Tier 1 deductions, as well as the simple average of certain off-balance sheet exposures, as of the end of each month in a quarter.

Capital Composition and Ratios

Table 11 presents Bank of America Corporation's capital ratios and related information in accordance with Basel 3 Standardized and Advanced approaches as measured at December 31, 2019 and 2018. As of the periods presented herein, the Corporation met the definition of well capitalized under current regulatory requirements.

Table 11 Bank of America Corporation Regulatory Capital under Basel 3

	Standardized Approach	Advanced Approaches	Regulatory Minimum (1)
	December 31, 2019		
(Dollars in millions, except as noted)			
Risk-based capital metrics:			
Common equity tier 1 capital	\$ 166,760	\$ 166,760	
Tier 1 capital	188,492	188,492	
Total capital (2)	221,230	213,098	
Risk-weighted assets (in billions)	1,493	1,447	
Common equity tier 1 capital ratio	11.2 %	11.5 %	9.5 %
Tier 1 capital ratio	12.6	13.0	11.0
Total capital ratio	14.8	14.7	13.0
Leverage-based metrics:			
Adjusted quarterly average assets (in billions) (3)	\$ 2,374	\$ 2,374	
Tier 1 leverage ratio	7.9 %	7.9 %	4.0
SLR leverage exposure (in billions)		\$ 2,946	
SLR		6.4 %	5.0
	December 31, 2018		
Risk-based capital metrics:			
Common equity tier 1 capital	\$ 167,272	\$ 167,272	
Tier 1 capital	189,038	189,038	
Total capital (2)	221,304	212,878	
Risk-weighted assets (in billions)	1,437	1,409	
Common equity tier 1 capital ratio	11.6 %	11.9 %	8.25 %
Tier 1 capital ratio	13.2	13.4	9.75
Total capital ratio	15.4	15.1	11.75
Leverage-based metrics:			
Adjusted quarterly average assets (in billions) (3)	\$ 2,258	\$ 2,258	
Tier 1 leverage ratio	8.4 %	8.4 %	4.0
SLR leverage exposure (in billions)		\$ 2,791	
SLR		6.8 %	5.0

(1) The capital conservation buffer and G-SIB surcharge were 2.5 percent at December 31, 2019 and 1.875 percent at December 31, 2018. The countercyclical capital buffer for both periods was zero. The SLR minimum includes a leverage buffer of 2.0 percent.

(2) Total capital under the Advanced approaches differs from the Standardized approach due to differences in the amount permitted in Tier 2 capital related to the qualifying allowance for credit losses.

(3) Reflects total average assets adjusted for certain Tier 1 capital deductions.

At December 31, 2019, CET1 capital and Total capital under the Advanced approaches were relatively unchanged compared to December 31, 2018. Risk-weighted assets under the Standardized approach, which yielded the lower CET1 capital ratio at December 31, 2019, increased \$56.3 billion during 2019 to \$1,493 billion

primarily due to loan growth and increased client activity in *Global Markets* and *Global Banking*.

Table 12 shows the capital composition at December 31, 2019 and 2018.

Table 12 Capital Composition under Basel 3

	December 31	
	2019	2018
(Dollars in millions)		
Total common shareholders' equity	\$ 241,409	\$ 242,999
Goodwill, net of related deferred tax liabilities	(68,570)	(68,572)
Deferred tax assets arising from net operating loss and tax credit carryforwards	(5,193)	(5,981)
Intangibles, other than mortgage servicing rights and goodwill, net of related deferred tax liabilities	(1,328)	(1,294)
Other	442	120
Common equity tier 1 capital	166,760	167,272
Qualifying preferred stock, net of issuance cost	22,329	22,326
Other	(597)	(560)
Tier 1 capital	188,492	189,038
Tier 2 capital instruments	22,538	21,887
Eligible credit reserves included in Tier 2 capital	2,097	1,972
Other	(29)	(19)
Total capital under the Advanced approaches	\$ 213,098	\$ 212,878

Table 13 shows the components of risk-weighted assets as measured under Basel 3 at December 31, 2019 and 2018.

Table 13 Risk-weighted Assets under Basel 3

	Standardized Approach	Advanced Approaches	Standardized Approach	Advanced Approaches
	December 31			
	2019		2018	
(Dollars in billions)				
Credit risk	\$ 1,437	\$ 858	\$ 1,384	\$ 827
Market risk	56	55	53	52
Operational risk	n/a	500	n/a	500
Risks related to credit valuation adjustments	n/a	34	n/a	30
Total risk-weighted assets	\$ 1,493	\$ 1,447	\$ 1,437	\$ 1,409

n/a = not applicable

Bank of America, N.A. Regulatory Capital

Table 14 presents regulatory capital information for BANA in accordance with Basel 3 Standardized and Advanced approaches as measured at December 31, 2019 and 2018. BANA met the definition of well capitalized under the PCA framework at both year ends.

Table 14 Bank of America, N.A. Regulatory Capital under Basel 3

	Standardized Approach	Advanced Approaches	Regulatory Minimum (1)
	December 31, 2019		
(Dollars in millions, except as noted)			
Risk-based capital metrics:			
Common equity tier 1 capital	\$ 154,626	\$ 154,626	
Tier 1 capital	154,626	154,626	
Total capital (2)	166,567	158,665	
Risk-weighted assets (in billions)	1,241	991	
Common equity tier 1 capital ratio	12.5 %	15.6 %	7.0 %
Tier 1 capital ratio	12.5	15.6	8.5
Total capital ratio	13.4	16.0	10.5
Leverage-based metrics:			
Adjusted quarterly average assets (in billions) (3)	\$ 1,780	\$ 1,780	
Tier 1 leverage ratio	8.7 %	8.7 %	5.0
SLR leverage exposure (in billions)		\$ 2,177	
SLR		7.1 %	6.0
	December 31, 2018		
Risk-based capital metrics:			
Common equity tier 1 capital	\$ 149,824	\$ 149,824	
Tier 1 capital	149,824	149,824	
Total capital (2)	161,760	153,627	
Risk-weighted assets (in billions)	1,195	959	
Common equity tier 1 capital ratio	12.5 %	15.6 %	6.5 %
Tier 1 capital ratio	12.5	15.6	8.0
Total capital ratio	13.5	16.0	10.0
Leverage-based metrics:			
Adjusted quarterly average assets (in billions) (3)	\$ 1,719	\$ 1,719	
Tier 1 leverage ratio	8.7 %	8.7 %	5.0
SLR leverage exposure (in billions)		\$ 2,112	
SLR		7.1 %	6.0

(1) Risk-based capital regulatory minimums at December 31, 2019 are the minimum ratios under Basel 3 including a capital conservation buffer of 0.5 percent. The regulatory minimums for the leverage ratios as of both period ends and risk-based capital ratios as of December 31, 2018 are the percent required to be considered well capitalized under the PCA framework.

(2) Total capital under the Advanced approaches differs from the Standardized approach due to differences in the amount permitted in Tier 2 capital related to the qualifying allowance for credit losses.

(3) Reflects total average assets adjusted for certain Tier 1 capital deductions.

Total Loss-Absorbing Capacity Requirements

Effective January 1, 2019, the Corporation is subject to the Federal Reserve's final rule requiring G-SIBs to maintain minimum levels of total loss-absorbing capacity (TLAC) and long-term debt. TLAC consists of the Corporation's Tier 1 capital and eligible long-term debt issued directly by the Corporation. Eligible long-term debt for TLAC ratios is comprised of unsecured debt that has a remaining

maturity of at least one year and satisfies additional requirements as prescribed in the TLAC final rule. As with the risk-based capital ratios and SLR, the Corporation is required to maintain TLAC ratios in excess of minimum requirements plus applicable buffers to avoid restrictions on capital distributions and discretionary bonus payments. Table 15 presents the Corporation's TLAC and long-term debt ratios and related information as of December 31, 2019.

Table 15 Bank of America Corporation Total Loss-Absorbing Capacity and Long-Term Debt

	TLAC	Regulatory Minimum (1)	Long-term Debt	Regulatory Minimum (2)
(Dollars in millions)				
December 31, 2019				
Total eligible balance	\$ 367,449		\$ 171,349	
Percentage of risk-weighted assets (3)	24.6%	22.0%	11.5%	8.5%
Percentage of SLR leverage exposure	12.5	9.5	5.8	4.5

(1) The TLAC risk-weighted assets regulatory minimum consists of 18.0 percent plus a TLAC risk-weighted assets buffer comprised of 2.5 percent plus the method 1 G-SIB surcharge of 1.5 percent. The countercyclical buffer is zero for this period. The TLAC SLR leverage exposure regulatory minimum consists of 7.5 percent plus a 2.0 percent TLAC leverage buffer. The TLAC risk-weighted assets and leverage buffers must be comprised solely of CET1 capital and Tier 1 capital, respectively.

(2) The long-term debt risk-weighted assets regulatory minimum is comprised of 6.0 percent plus an additional 2.5 percent requirement based on the Corporation's method 2 G-SIB surcharge. The long-term debt leverage exposure regulatory minimum is 5 percent.

(3) The approach that yields the higher risk-weighted assets is used to calculate TLAC and long-term debt ratios, which was the Standardized approach as of December 31, 2019.

Regulatory Capital and Securities Regulation

The Corporation's principal U.S. broker-dealer subsidiaries are BofA Securities, Inc. (BofAS), Merrill Lynch Professional Clearing Corp. (MLPCC) and Merrill Lynch, Pierce, Fenner & Smith Incorporated (MLPF&S). BofAS was formed as a result of the reorganization of MLPF&S which was completed in May 2019. The Corporation's principal European broker-dealer subsidiaries are Merrill Lynch International (MLI) and BofA Securities Europe SA (BofASE).

The U.S. broker-dealer subsidiaries are subject to the net capital requirements of Rule 15c3-1 under the Exchange Act. BofAS computes its minimum capital requirements as an alternative net capital broker-dealer under Rule 15c3-1, and MLPCC and MLPF&S compute their minimum capital requirements in accordance with the alternative standard under Rule 15c3-1. BofAS and MLPCC are also registered as futures commission merchants and are subject to U.S. Commodity Futures Trading Commission (CFTC) Regulation 1.17.

BofAS provides institutional services, and in accordance with the alternative net capital requirements, is required to maintain tentative net capital in excess of \$1.0 billion and net capital in excess of the greater of \$500 million or a certain percentage of its reserve requirement. BofAS must also notify the Securities and Exchange Commission (SEC) in the event its tentative net capital is less than \$5.0 billion. BofAS is also required to hold a certain percentage of its risk-based margin in order to meet its CFTC minimum net capital requirement. At December 31, 2019, BofAS had tentative net capital of \$12.5 billion. BofAS also had regulatory net capital of \$10.4 billion which exceeded the minimum requirement of \$2.4 billion.

MLPCC is a fully-guaranteed subsidiary of BofAS and provides clearing and settlement services. At December 31, 2019, MLPCC's regulatory net capital of \$5.3 billion exceeded the minimum requirement of \$1.3 billion.

MLPF&S provides retail services. At December 31, 2019, MLPF&S' regulatory net capital was \$4.1 billion which exceeded the minimum requirement of \$102 million.

Our European broker-dealers are regulated by non-U.S. regulators. MLI, a U.K. investment firm, is regulated by the Prudential Regulation Authority and the FCA and is subject to certain regulatory capital requirements. At December 31, 2019, MLI's capital resources were \$34.8 billion, which exceeded the minimum Pillar 1 requirement of \$13.9 billion. BofASE, a French investment firm, is regulated by the Autorité de Contrôle Prudentiel et de Résolution and the Autorité des Marchés Financiers, and is subject to certain regulatory capital requirements. At December 31, 2019, BofASE's capital resources were \$5.5 billion which exceeded the minimum Pillar 1 requirement of \$1.3 billion.

Regulatory Developments

Revisions to Basel 3 to Address Current Expected Credit Loss Accounting

On January 1, 2020, the Corporation adopted the new accounting standard that requires the measurement of the allowance for credit losses to be based on management's best estimate of lifetime expected credit losses inherent in the Corporation's relevant financial assets. For more information, see *Note 1 - Summary of Significant Accounting Principles* to the Consolidated Financial Statements. Our adoption of the standard resulted in a decrease to the CET1 capital ratio of 17 bps, which will be phased in evenly, or approximately four bps per year, at the beginning of each year from January 1, 2020 through January 1, 2023 in accordance with transition provisions issued by the U.S. banking regulators.

Security-Based Swap Dealer Capital, Margin and Segregation Requirements

On June 21, 2019, the SEC published a final rule establishing capital, margin and segregation requirements for security-based swap dealers (SBSDs). The final rule increases the minimum net capital requirements for broker-dealers authorized to use internal models to compute alternative net capital (ANC broker-dealers). For ANC broker-dealers, the minimum tentative net capital requirement increased from \$1.0 billion to \$5.0 billion, and the net capital requirement was raised to the greater of \$1.0 billion or two percent of the applicable risk-margin amount (initial margin maintained for cleared and non-cleared security-based swaps) plus two percent of certain customer-related assets. For stand-alone SBSDs that use models to calculate haircuts, the minimum tentative net capital requirement is \$100 million and the minimum net capital requirement is the greater of \$20 million or two percent of the risk-margin amount.

Capital Requirements for Swap Dealers

On December 10, 2019, the CFTC re-opened the comment period on its 2016 proposal to establish capital requirements for swap dealers and major swap participants that are not subject to existing U.S. prudential regulation. Under the proposal, applicable subsidiaries of the Corporation would be permitted to elect one of two approaches to compute their regulatory capital. The first approach is a bank-based capital approach which requires that firms maintain CET1 capital greater than or equal to the larger of 8.0 percent of the entity's RWA as calculated under Basel 3, or 8.0 percent of the margin of the entity's cleared and uncleared swaps, security-based swaps, futures and foreign futures positions. The second approach is based on net liquid assets and requires that a firm maintain net capital greater than or equal to 8.0 percent of the margin as described above. The proposal also includes liquidity and reporting requirements.

Single-Counterparty Credit Limits

The Federal Reserve established single-counterparty credit limits (SCCL) for BHCs with total consolidated assets of \$250 billion or more. The SCCL rule is designed to ensure that the maximum possible loss that a BHC could incur due to the default of a single counterparty or a group of connected counterparties would not endanger the BHC's survival, thereby reducing the probability of future financial crises. Beginning January 1, 2020, G-SIBs must calculate SCCL on a daily basis by dividing the aggregate net credit exposure to a given counterparty by the G-SIB's Tier 1 capital, ensuring that exposures to other G-SIBs and nonbank financial institutions regulated by the Federal Reserve do not breach 15 percent of Tier 1 capital and exposures to most other counterparties do not breach 25 percent of Tier 1 capital. Certain exposures, including exposures to the U.S. government, U.S. government-sponsored entities and qualifying central counterparties, are exempt from the credit limits.

Liquidity Risk

Finding and Liquidity Risk Management

Our primary liquidity risk management objective is to meet expected or unexpected cash flow and collateral needs while continuing to support our businesses and customers under a range of economic conditions. To achieve that objective, we analyze and monitor our liquidity risk under expected and stressed conditions, maintain liquidity and access to diverse funding sources, including our stable deposit base, and seek to align liquidity-related incentives and risks.

We define liquidity as readily available assets, limited to cash and high-quality, liquid, unencumbered securities that we can use to meet our contractual and contingent financial obligations as those obligations arise. We manage our liquidity position through line of business and ALM activities, as well as through our legal entity funding strategy, on both a forward and current (including intraday) basis under both expected and stressed conditions. We believe that a centralized approach to funding and liquidity management enhances our ability to monitor liquidity requirements, maximizes access to funding sources, minimizes borrowing costs and facilitates timely responses to liquidity events.

The Board approves our liquidity risk policy and the Financial Contingency and Recovery Plan. The ERC establishes our liquidity risk tolerance levels. The MRC is responsible for overseeing liquidity risks and directing management to maintain exposures within the established tolerance levels. The MRC reviews and monitors our liquidity position and stress testing results, approves certain liquidity risk limits and reviews the impact of strategic decisions on our liquidity. For more information, see Managing Risk on page 42. Under this governance framework, we have developed certain funding and liquidity risk management practices which include: maintaining liquidity at the parent company and selected subsidiaries, including our bank subsidiaries and other regulated entities; determining what amounts of liquidity are appropriate for these entities based on analysis of debt maturities and other potential cash outflows, including those that we may experience during stressed market conditions; diversifying funding sources, considering our asset profile and legal entity structure; and performing contingency planning.

NB Holdings Corporation

We have intercompany arrangements with certain key subsidiaries under which we transferred certain assets of Bank of America Corporation, as the parent company, which is a separate and distinct legal entity from our banking and nonbank subsidiaries,

and agreed to transfer certain additional parent company assets not needed to satisfy anticipated near-term expenditures, to NB Holdings Corporation, a wholly-owned holding company subsidiary (NB Holdings). The parent company is expected to continue to have access to the same flow of dividends, interest and other amounts of cash necessary to service its debt, pay dividends and perform other obligations as it would have had if it had not entered into these arrangements and transferred any assets.

In consideration for the transfer of assets, NB Holdings issued a subordinated note to the parent company in a principal amount equal to the value of the transferred assets. The aggregate principal amount of the note will increase by the amount of any future asset transfers. NB Holdings also provided the parent company with a committed line of credit that allows the parent company to draw funds necessary to service near-term cash needs. These arrangements support our preferred single point of entry resolution strategy, under which only the parent company would be resolved under the U.S. Bankruptcy Code. These arrangements include provisions to terminate the line of credit, forgive the subordinated note and require the parent company to transfer its remaining financial assets to NB Holdings if our projected liquidity resources deteriorate so severely that resolution of the parent company becomes imminent.

Global Liquidity Sources and Other Unencumbered Assets

We maintain liquidity available to the Corporation, including the parent company and selected subsidiaries, in the form of cash and high-quality, liquid, unencumbered securities. Our liquidity buffer, referred to as Global Liquidity Sources (GLS), is comprised of assets that are readily available to the parent company and selected subsidiaries, including holding company, bank and broker-dealer subsidiaries, even during stressed market conditions. Our cash is primarily on deposit with the Federal Reserve Bank and, to a lesser extent, central banks outside of the U.S. We limit the composition of high-quality, liquid, unencumbered securities to U.S. government securities, U.S. agency securities, U.S. agency MBS and a select group of non-U.S. government securities. We can quickly obtain cash for these securities, even in stressed conditions, through repurchase agreements or outright sales. We hold our GLS in legal entities that allow us to meet the liquidity requirements of our global businesses, and we consider the impact of potential regulatory, tax, legal and other restrictions that could limit the transferability of funds among entities.

Table 16 presents average GLS for the three months ended December 31, 2019 and 2018.

Table 16 Average Global Liquidity Sources

(Dollars in billions)	Three Months Ended December 31	
	2019	2018
Parent company and NB Holdings	\$ 59	\$ 76
Bank subsidiaries	454	420
Other regulated entities	63	48
Total Average Global Liquidity Sources	\$ 576	\$ 544

Typically, parent company and NB Holdings liquidity is in the form of cash deposited with BANA.

Our bank subsidiaries' liquidity is primarily driven by deposit and lending activity, as well as securities valuation and net debt activity. Liquidity at bank subsidiaries excludes the cash deposited by the parent company and NB Holdings. Our bank subsidiaries can also generate incremental liquidity by pledging a range of unencumbered loans and securities to certain FHLBs and the Federal Reserve Discount Window. The cash we could have

obtained by borrowing against this pool of specifically-identified eligible assets was \$372 billion and \$344 billion at December 31, 2019 and 2018. We have established operational procedures to enable us to borrow against these assets, including regularly monitoring our total pool of eligible loans and securities collateral. Eligibility is defined in guidelines from the FHLBs and the Federal Reserve and is subject to change at their discretion. Due to regulatory restrictions, liquidity generated by the bank subsidiaries can generally be used only to fund obligations within the bank subsidiaries, and transfers to the parent company or nonbank subsidiaries may be subject to prior regulatory approval.

Liquidity held in other regulated entities, comprised primarily of broker-dealer subsidiaries, is primarily available to meet the obligations of that entity and transfers to the parent company or to any other subsidiary may be subject to prior regulatory approval due to regulatory restrictions and minimum requirements. Our other regulated entities also hold unencumbered investment-grade securities and equities that we believe could be used to generate additional liquidity.

Table 17 presents the composition of average GLS for the three months ended December 31, 2019 and 2018.

Table 17 Average Global Liquidity Sources Composition

	Three Months Ended December 31	
	2019	2018
(Dollars in billions)		
Cash on deposit	\$ 103	\$ 113
U.S. Treasury securities	98	81
U.S. agency securities and mortgage-backed securities	358	340
Non-U.S. government securities	17	10
Total Average Global Liquidity Sources	\$ 576	\$ 544

Our GLS are substantially the same in composition to what qualifies as High Quality Liquid Assets (HQLA) under the final U.S. Liquidity Coverage Ratio (LCR) rules. However, HQLA for purposes of calculating LCR is not reported at market value, but at a lower value that incorporates regulatory deductions and the exclusion of excess liquidity held at certain subsidiaries. The LCR is calculated as the amount of a financial institution's unencumbered HQLA relative to the estimated net cash outflows the institution could encounter over a 30-day period of significant liquidity stress, expressed as a percentage. Our average consolidated HQLA, on a net basis, was \$464 billion and \$446 billion for the three months ended December 31, 2019 and 2018. For the same periods, the average consolidated LCR was 116 percent and 118 percent. Our LCR fluctuates due to normal business flows from customer activity.

Liquidity Stress Analysis

We utilize liquidity stress analysis to assist us in determining the appropriate amounts of liquidity to maintain at the parent company and our subsidiaries to meet contractual and contingent cash outflows under a range of scenarios. The scenarios we consider and utilize incorporate market-wide and Corporation-specific events, including potential credit rating downgrades for the parent company and our subsidiaries, and more severe events including potential resolution scenarios. The scenarios are based on our historical experience, experience of distressed and failed financial institutions, regulatory guidance, and both expected and unexpected future events.

The types of potential contractual and contingent cash outflows we consider in our scenarios may include, but are not limited to, upcoming contractual maturities of unsecured debt and reductions in new debt issuance; diminished access to secured financing

markets; potential deposit withdrawals; increased draws on loan commitments, liquidity facilities and letters of credit; additional collateral that counterparties could call if our credit ratings were downgraded; collateral and margin requirements arising from market value changes; and potential liquidity required to maintain businesses and finance customer activities. Changes in certain market factors, including, but not limited to, credit rating downgrades, could negatively impact potential contractual and contingent outflows and the related financial instruments, and in some cases these impacts could be material to our financial results.

We consider all sources of funds that we could access during each stress scenario and focus particularly on matching available sources with corresponding liquidity requirements by legal entity. We also use the stress modeling results to manage our asset and liability profile and establish limits and guidelines on certain funding sources and businesses.

Net Stable Funding Ratio

U.S. banking regulators issued a proposal for a Net Stable Funding Ratio (NSFR) requirement applicable to U.S. financial institutions following the Basel Committee's final standard. The proposed U.S. NSFR would apply to the Corporation on a consolidated basis and to our insured depository institutions. While the final requirement remains pending and is subject to change, if finalized as proposed, we expect to be in compliance within the regulatory timeline. The standard is intended to reduce funding risk over a longer time horizon. The NSFR is designed to provide an appropriate amount of stable funding, generally capital and liabilities maturing beyond one year, given the mix of assets and off-balance sheet items.

Diversified Funding Sources

We fund our assets primarily with a mix of deposits, and secured and unsecured liabilities through a centralized, globally coordinated funding approach diversified across products, programs, markets, currencies and investor groups.

The primary benefits of our centralized funding approach include greater control, reduced funding costs, wider name recognition by investors and greater flexibility to meet the variable funding requirements of subsidiaries. Where regulations, time zone differences or other business considerations make parent company funding impractical, certain other subsidiaries may issue their own debt.

We fund a substantial portion of our lending activities through our deposits, which were \$1.43 trillion and \$1.38 trillion at December 31, 2019 and 2018. Deposits are primarily generated by our *Consumer Banking*, *GWIM* and *Global Banking* segments. These deposits are diversified by clients, product type and geography, and the majority of our U.S. deposits are insured by the FDIC. We consider a substantial portion of our deposits to be a stable, low-cost and consistent source of funding. We believe this deposit funding is generally less sensitive to interest rate changes, market volatility or changes in our credit ratings than wholesale funding sources. Our lending activities may also be financed through secured borrowings, including credit card securitizations and securitizations with government-sponsored enterprises (GSE), the FHA and private-label investors, as well as FHLB loans.

Our trading activities in other regulated entities are primarily funded on a secured basis through securities lending and repurchase agreements, and these amounts will vary based on customer activity and market conditions. We believe funding these activities in the secured financing markets is more cost-efficient and less sensitive to changes in our credit ratings than unsecured financing. Repurchase agreements are generally short-term and

often overnight. Disruptions in secured financing markets for financial institutions have occurred in prior market cycles which resulted in adverse changes in terms or significant reductions in the availability of such financing. We manage the liquidity risks arising from secured funding by sourcing funding globally from a diverse group of counterparties, providing a range of securities collateral and pursuing longer durations, when appropriate. For more information on secured financing agreements, see *Note 11 – Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash* to the Consolidated Financial Statements.

We issue long-term unsecured debt in a variety of maturities and currencies to achieve cost-efficient funding and to maintain an appropriate maturity profile. While the cost and availability of unsecured funding may be negatively impacted by general market conditions or by matters specific to the financial services industry or the Corporation, we seek to mitigate refinancing risk by actively managing the amount of our borrowings that we anticipate will mature within any month or quarter.

Table 18 presents our long-term debt by major currency at December 31, 2019 and 2018.

Table 18 Long-term Debt by Major Currency

(Dollars in millions)	December 31	
	2019	2018
U.S. dollar	\$ 191,284	\$ 180,724
Euro	32,781	34,328
British pound	5,067	5,450
Japanese yen	4,310	3,038
Canadian dollar	3,857	2,936
Australian dollar	1,957	1,722
Other	1,600	1,194
Total long-term debt	\$ 240,856	\$ 229,392

Total long-term debt increased \$11.5 billion during 2019, primarily due to debt issuances and valuation adjustments, partially offset by maturities and redemptions. We may, from time to time, purchase outstanding debt instruments in various transactions, depending on market conditions, liquidity and other factors. Our other regulated entities may also make markets in our debt instruments to provide liquidity for investors.

During 2019, the Corporation issued \$52.5 billion of long-term debt consisting of \$29.3 billion of notes issued by Bank of America Corporation, substantially all of which was TLAC compliant, \$10.9 billion of notes issued by Bank of America, N.A. and \$12.3 billion of other debt, substantially all of which was structured liabilities. During 2018, the Corporation issued \$64.4 billion of long-term debt consisting of \$30.7 billion of notes issued by Bank of America Corporation, substantially all of which was TLAC compliant, \$18.7 billion of notes issued by Bank of America, N.A. and \$15.0 billion of other debt, substantially all of which was structured liabilities.

During 2019, the Corporation had total long-term debt maturities and redemptions in the aggregate of \$50.6 billion consisting of \$21.1 billion for Bank of America Corporation, \$19.9 billion for Bank of America, N.A. and \$9.6 billion of other debt. During 2018, the Corporation had total long-term debt maturities and redemptions in the aggregate of \$53.3 billion consisting of \$29.8 billion for Bank of America Corporation, \$11.2 billion for Bank of America, N.A. and \$12.3 billion of other debt.

At December 31, 2019, Bank of America Corporation's senior notes of \$159.8 billion included \$107.7 billion of outstanding notes that are both TLAC eligible and callable at least one year before their stated maturities. Of these senior notes, \$7.4 billion will be callable and become TLAC ineligible during 2020, and \$11.7

billion, \$14.8 billion, \$10.7 billion and \$9.2 billion will do so during each of 2021 through 2024, respectively, and \$53.9 billion thereafter.

We use derivative transactions to manage the duration, interest rate and currency risks of our borrowings, considering the characteristics of the assets they are funding. For more information on our ALM activities, see *Interest Rate Risk Management* for the Banking Book on page 74.

We may issue unsecured debt in the form of structured notes for client purposes, certain of which qualify as TLAC-eligible debt. During 2019, we issued \$9.6 billion of structured notes, which are debt obligations that pay investors returns linked to other debt or equity securities, indices, currencies or commodities. We typically hedge the returns we are obligated to pay on these liabilities with derivatives and/or investments in the underlying instruments, so that from a funding perspective, the cost is similar to our other unsecured long-term debt. We could be required to settle certain structured note obligations for cash or other securities prior to maturity under certain circumstances, which we consider for liquidity planning purposes. We believe, however, that a portion of such borrowings will remain outstanding beyond the earliest put or redemption date.

Substantially all of our senior and subordinated debt obligations contain no provisions that could trigger a requirement for an early repayment, require additional collateral support, result in changes to terms, accelerate maturity or create additional financial obligations upon an adverse change in our credit ratings, financial ratios, earnings, cash flows or stock price. For more information on long-term debt funding, including issuances and maturities and redemptions, see *Note 12 – Long-term Debt* to the Consolidated Financial Statements.

Contingency Planning

We maintain contingency funding plans that outline our potential responses to liquidity stress events at various levels of severity. These policies and plans are based on stress scenarios and include potential funding strategies and communication and notification procedures that we would implement in the event we experienced stressed liquidity conditions. We periodically review and test the contingency funding plans to validate efficacy and assess readiness.

Our U.S. bank subsidiaries can access contingency funding through the Federal Reserve Discount Window. Certain non-U.S. subsidiaries have access to central bank facilities in the jurisdictions in which they operate. While we do not rely on these sources in our liquidity modeling, we maintain the policies, procedures and governance processes that would enable us to access these sources if necessary.

Credit Ratings

Our borrowing costs and ability to raise funds are impacted by our credit ratings. In addition, credit ratings may be important to customers or counterparties when we compete in certain markets and when we seek to engage in certain transactions, including over-the-counter (OTC) derivatives. Thus, it is our objective to maintain high-quality credit ratings, and management maintains an active dialogue with the major rating agencies.

Credit ratings and outlooks are opinions expressed by rating agencies on our creditworthiness and that of our obligations or securities, including long-term debt, short-term borrowings, preferred stock and other securities, including asset securitizations. Our credit ratings are subject to ongoing review by the rating agencies, and they consider a number of factors, including our own financial strength, performance, prospects and operations as well as factors not under our control. The rating

agencies could make adjustments to our ratings at any time, and they provide no assurances that they will maintain our ratings at current levels.

Other factors that influence our credit ratings include changes to the rating agencies' methodologies for our industry or certain security types; the rating agencies' assessment of the general operating environment for financial services companies; our relative positions in the markets in which we compete; our various risk exposures and risk management policies and activities; pending litigation and other contingencies or potential tail risks; our reputation; our liquidity position, diversity of funding sources and funding costs; the current and expected level and volatility of our earnings; our capital position and capital management practices; our corporate governance; the sovereign credit ratings of the U.S. government; current or future regulatory and legislative initiatives; and the agencies' views on whether the U.S. government would provide meaningful support to the Corporation or its subsidiaries in a crisis.

On June 12, 2019, Fitch Ratings (Fitch) completed its periodic review of the 12 large, complex securities trading and universal banks, including Bank of America Corporation. The agency affirmed the long-term and short-term senior debt ratings of the Corporation and all of its rated subsidiaries, except Bank of America Merrill

Lynch International Designated Activity Company, which Fitch upgraded by one notch to AA-/F1+. The rating outlook for all long-term ratings is currently stable.

On March 6, 2019, Moody's Investors Service (Moody's) upgraded the long-term and short-term ratings of the Corporation by one notch to A2/P-1 from A3/P-2 for senior debt, as well as the long-term ratings of its rated subsidiaries, including BANA, which the agency upgraded to Aa2 from Aa3 for senior debt. Moody's concurrently affirmed the short-term ratings of the Corporation's rated subsidiaries, including BANA. Moody's cited the Corporation's strengthening profitability, continued adherence to a conservative risk profile and stable capital ratios as rationale for the upgrade. The rating outlook for all long-term ratings is currently stable.

The ratings from Standard & Poor's Global Ratings (S&P) for the Corporation and its subsidiaries did not change during 2019. The long-term and short-term debt ratings of BofAS and BofASE, which were initially rated by S&P during the first quarter 2019, also remained unchanged during the rest of 2019.

Table 19 presents the Corporation's current long-term/short-term senior debt ratings and outlooks expressed by the rating agencies.

Table 19 Senior Debt Ratings

	Moody's Investors Service			Standard & Poor's Global Ratings			Fitch Ratings		
	Long-term	Short-term	Outlook	Long-term	Short-term	Outlook	Long-term	Short-term	Outlook
Bank of America Corporation	A2	P-1	Stable	A-	A-2	Stable	A+	F1	Stable
Bank of America, N.A.	Aa2	P-1	Stable	A+	A-1	Stable	AA-	F1+	Stable
Bank of America Merrill Lynch International Designated Activity Company	NR	NR	NR	A+	A-1	Stable	AA-	F1+	Stable
Merrill Lynch, Pierce, Fennner & Smith Incorporated	NR	NR	NR	A+	A-1	Stable	AA-	F1+	Stable
BofA Securities, Inc.	NR	NR	NR	A+	A-1	Stable	AA-	F1+	Stable
Merrill Lynch International	NR	NR	NR	A+	A-1	Stable	A+	F1	Stable
BofA Securities Europe SA	NR	NR	NR	A+	A-1	Stable	A+	F1	Stable

NR = not rated

A reduction in certain of our credit ratings or the ratings of certain asset-backed securitizations may have a material adverse effect on our liquidity, potential loss of access to credit markets, the related cost of funds, our businesses and on certain revenues, particularly in those businesses where counterparty creditworthiness is critical. In addition, under the terms of certain OTC derivative contracts and other trading agreements, in the event of downgrades of our or our rated subsidiaries' credit ratings, the counterparties to those agreements may require us to provide additional collateral, or to terminate these contracts or agreements, which could cause us to sustain losses and/or adversely impact our liquidity. If the short-term credit ratings of our parent company, bank or broker-dealer subsidiaries were downgraded by one or more levels, the potential loss of access to short-term funding sources such as repo financing and the effect on our incremental cost of funds could be material.

While certain potential impacts are contractual and quantifiable, the full scope of the consequences of a credit rating downgrade to a financial institution is inherently uncertain, as it depends upon numerous dynamic, complex and inter-related factors and assumptions, including whether any downgrade of a company's long-term credit ratings precipitates downgrades to its short-term credit ratings, and assumptions about the potential behaviors of various customers, investors and counterparties. For more information on potential impacts of credit rating downgrades, see Liquidity Risk – Liquidity Stress Analysis on page 51.

For more information on additional collateral and termination payments that could be required in connection with certain OTC derivative contracts and other trading agreements as a result of such a credit rating downgrade, see *Note 3 – Derivatives* to the Consolidated Financial Statements and Item 1A. Risk Factors.

Common Stock Dividends

For a summary of our declared quarterly cash dividends on common stock during 2019 and through February 19, 2020, see *Note 14 – Shareholders' Equity* to the Consolidated Financial Statements.

Credit Risk Management

Credit risk is the risk of loss arising from the inability or failure of a borrower or counterparty to meet its obligations. Credit risk can also arise from operational failures that result in an erroneous advance, commitment or investment of funds. We define the credit exposure to a borrower or counterparty as the loss potential arising from all product classifications including loans and leases, deposit overdrafts, derivatives, assets held-for-sale and unfunded lending commitments which include loan commitments, letters of credit and financial guarantees. Derivative positions are recorded at fair value and assets held-for-sale are recorded at either fair value or the lower of cost or fair value. Certain loans and unfunded commitments are accounted for under the fair value option. Credit risk for categories of assets carried at fair value is not accounted for as part of the allowance for credit losses but as part of the fair

value adjustments recorded in earnings. For derivative positions, our credit risk is measured as the net cost in the event the counterparties with contracts in which we are in a gain position fail to perform under the terms of those contracts. We use the current fair value to represent credit exposure without giving consideration to future mark-to-market changes. The credit risk amounts take into consideration the effects of legally enforceable master netting agreements and cash collateral. Our consumer and commercial credit extension and review procedures encompass funded and unfunded credit exposures. For more information on derivatives and credit extension commitments, see *Note 3 – Derivatives* and *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements.

We manage credit risk based on the risk profile of the borrower or counterparty, repayment sources, the nature of underlying collateral, and other support given current events, conditions and expectations. We classify our portfolios as either consumer or commercial and monitor credit risk in each as discussed below.

We refine our underwriting and credit risk management practices as well as credit standards to meet the changing economic environment. To mitigate losses and enhance customer support in our consumer businesses, we have in place collection programs and loan modification and customer assistance infrastructures. We utilize a number of actions to mitigate losses in the commercial businesses including increasing the frequency and intensity of portfolio monitoring, hedging activity and our practice of transferring management of deteriorating commercial exposures to independent special asset officers as credits enter criticized categories.

For more information on our credit risk management activities, see *Consumer Portfolio Credit Risk Management* below, *Commercial Portfolio Credit Risk Management* on page 60, *Non-U.S. Portfolio* on page 66, *Provision for Credit Losses* on page 68, *Allowance for Credit Losses* on page 68, and *Note 5 – Outstanding Loans and Leases* and *Note 6 – Allowance for Credit Losses* to the Consolidated Financial Statements.

Consumer Portfolio Credit Risk Management

Credit risk management for the consumer portfolio begins with initial underwriting and continues throughout a borrower's credit cycle. Statistical techniques in conjunction with experiential judgment are used in all aspects of portfolio management including underwriting, product pricing, risk appetite, setting credit limits, and establishing operating processes and metrics to quantify and balance risks and returns. Statistical models are built using detailed behavioral information from external sources such as credit bureaus and/or internal historical experience and are a component of our consumer credit risk management process. These models are used in part to assist in making both new and ongoing credit decisions, as well as portfolio management strategies, including authorizations and line management, collection practices and strategies, and determination of the allowance for loan and lease losses and allocated capital for credit risk.

Consumer Credit Portfolio

Improvement in home prices continued during 2019 resulting in improved credit quality compared to 2018. Net recoveries in the consumer real estate portfolio due primarily to non-core loan sales were partially offset by seasoning in the credit card portfolio compared to 2018.

Improved credit quality and continued loan balance runoff primarily in the non-core consumer real estate portfolio, partially offset by seasoning within the credit card portfolio, drove a \$260 million decrease in the consumer allowance for loan and lease losses in 2019 to \$4.5 billion. For more information, see *Allowance for Credit Losses* on page 68.

For more information on our accounting policies regarding delinquencies, nonperforming status, charge-offs and troubled debt restructurings (TDRs) for the consumer portfolio, see *Note 1 – Summary of Significant Accounting Principles* and *Note 5 – Outstanding Loans and Leases* to the Consolidated Financial Statements.

Table 20 presents our outstanding consumer loans and leases, consumer nonperforming loans and accruing consumer loans past due 90 days or more.

Table 20 Consumer Credit Quality

	Outstandings		Nonperforming		Accruing Past Due 90 Days or More	
			December 31			
	2019	2018	2019	2018	2019	2018
(Dollars in millions)						
Residential mortgage (1)	\$ 236,169	\$ 208,557	\$ 1,470	\$ 1,893	\$ 1,088	\$ 1,884
Home equity	40,208	48,286	536	1,893	—	—
Credit card	97,608	98,338	n/a	n/a	1,042	994
Direct/Indirect consumer (2)	90,998	91,166	47	56	33	38
Other consumer	192	202	—	—	—	—
Consumer loans excluding loans accounted for under the fair value option	\$ 465,175	\$ 446,549	\$ 2,053	\$ 3,842	\$ 2,163	\$ 2,916
Loans accounted for under the fair value option (3)	594	682				
Total consumer loans and leases	\$ 465,769	\$ 447,231				
Percentage of outstanding consumer loans and leases (4)	n/a	n/a	0.44 %	0.86 %	0.47 %	0.65 %
Percentage of outstanding consumer loans and leases, excluding fully-insured loan portfolios (4)	n/a	n/a	0.46	0.90	0.24	0.24

(1) Residential mortgage loans accruing past due 90 days or more are fully-insured loans. At December 31, 2019 and 2018, residential mortgage includes \$740 million and \$1.4 billion of loans on which interest had been curtailed by the FHA, and therefore were no longer accruing interest, although principal was still insured, and \$348 million and \$498 million of loans on which interest was still accruing.

(2) Outstandings primarily include auto and specialty lending loans and leases of \$50.4 billion and \$50.1 billion, U.S. securities-based lending loans of \$36.7 billion and \$37.0 billion and non-U.S. consumer loans of \$2.8 billion and \$2.9 billion at December 31, 2019 and 2018.

(3) Consumer loans accounted for under the fair value option include residential mortgage loans of \$257 million and \$336 million and home equity loans of \$337 million and \$346 million at December 31, 2019 and 2018. For more information on the fair value option, see *Note 22 – Fair Value Option* to the Consolidated Financial Statements.

(4) Excludes consumer loans accounted for under the fair value option. At December 31, 2019 and 2018, \$6 million and \$12 million of loans accounted for under the fair value option were past due 90 days or more and not accruing interest.

n/a = not applicable

Table 21 presents net charge-offs and related ratios for consumer loans and leases.

Table 21 Consumer Net Charge-offs and Related Ratios

	Net Charge-offs		Net Charge-off Ratios (1)	
	2019	2018	2019	2018
(Dollars in millions)				
Residential mortgage	\$ (47)	\$ 28	(0.02)%	0.01%
Home equity	(358)	(2)	(0.81)	—
Credit card	2,948	2,837	3.12	3.00
Direct/Indirect consumer	209	195	0.23	0.21
Other consumer	234	182	n/m	n/m
Total	\$ 2,986	\$ 3,240	0.66	0.72

(1) Net charge-off ratios are calculated as net charge-offs divided by average outstanding loans and leases excluding loans accounted for under the fair value option.

n/m = not meaningful

Table 22 presents outstandings, nonperforming balances, net charge-offs, allowance for loan and lease losses and provision for loan and lease losses for the core and non-core portfolios within the consumer real estate portfolio. We categorize consumer real estate loans as core and non-core based on loan and customer characteristics such as origination date, product type, loan-to-value (LTV), Fair Isaac Corporation (FICO) score and delinquency status consistent with our current consumer and mortgage servicing strategy. Generally, loans that were originated after January 1, 2010, qualified under GSE underwriting guidelines, or otherwise met our underwriting guidelines in place in 2015 are characterized

as core loans. All other loans are generally characterized as non-core loans and represent runoff portfolios. Core loans as reported in Table 22 include loans held in the *Consumer Banking* and *GWIM* segments, as well as loans held for ALM activities in *All Other*.

As shown in Table 22, outstanding core consumer real estate loans increased \$27.3 billion during 2019 driven by an increase of \$32.1 billion in residential mortgage, partially offset by a \$4.8 billion decrease in home equity.

During 2019, we sold \$4.7 billion of consumer real estate loans, primarily non-core, compared to \$11.6 billion in 2018.

Table 22 Consumer Real Estate Portfolio (1)

	Outstandings		Nonperforming		Net Charge-offs	
	December 31					
	2019	2018	2019	2018	2019	2018
(Dollars in millions)						
Core portfolio						
Residential mortgage	\$ 225,770	\$ 193,695	\$ 883	\$ 1,010	\$ 7	\$ 11
Home equity	35,226	40,010	363	955	51	78
Total core portfolio	260,996	233,705	1,246	1,965	58	89
Non-core portfolio						
Residential mortgage	10,399	14,862	587	883	(54)	17
Home equity	4,982	8,276	173	938	(409)	(80)
Total non-core portfolio	15,381	23,138	760	1,821	(463)	(63)
Consumer real estate portfolio						
Residential mortgage	236,169	208,557	1,470	1,893	(47)	28
Home equity	40,208	48,286	536	1,893	(358)	(2)
Total consumer real estate portfolio	\$ 276,377	\$ 256,843	\$ 2,006	\$ 3,786	\$ (405)	\$ 26
	Allowance for Loan and Lease Losses		Provision for Loan and Lease Losses			
	December 31					
	2019	2018	2019	2018	2019	2018
Core portfolio						
Residential mortgage	\$ 229	\$ 214	\$ 22	\$ 7		
Home equity	120	228	(58)	(60)		
Total core portfolio	349	442	(36)	(53)		
Non-core portfolio						
Residential mortgage	96	208	(134)	(104)		
Home equity	101	278	(510)	(335)		
Total non-core portfolio	197	486	(644)	(439)		
Consumer real estate portfolio						
Residential mortgage	325	422	(112)	(97)		
Home equity	221	506	(568)	(395)		
Total consumer real estate portfolio	\$ 546	\$ 928	\$ (680)	\$ (492)		

(1) Outstandings and nonperforming loans exclude loans accounted for under the fair value option. Consumer loans accounted for under the fair value option include residential mortgage loans of \$257 million and \$336 million and home equity loans of \$337 million and \$346 million at December 31, 2019 and 2018. For more information, see Note 22 – Fair Value Option to the Consolidated Financial Statements.

We believe that the presentation of information adjusted to exclude the impact of the fully-insured loan portfolio and loans accounted for under the fair value option is more representative of the ongoing operations and credit quality of the business. As a result, in the following tables and discussions of the residential mortgage and home equity portfolios, we exclude loans accounted for under the fair value option and provide information that excludes the impact of the fully-insured loan portfolio in certain credit quality statistics.

Residential Mortgage

The residential mortgage portfolio made up the largest percentage of our consumer loan portfolio at 51 percent of consumer loans and leases at December 31, 2019. Approximately 50 percent of the residential mortgage portfolio was in *Consumer Banking* and 36 percent was in *GWIM*. The remaining portion was in *All Other* and was comprised of loans used in our overall ALM activities,

delinquent FHA loans repurchased pursuant to our servicing agreements with the Government National Mortgage Association as well as loans repurchased related to our representations and warranties.

Outstanding balances in the residential mortgage portfolio increased \$27.6 billion in 2019 as retention of new originations was partially offset by loan sales of \$2.7 billion and runoff.

At December 31, 2019 and 2018, the residential mortgage portfolio included \$18.7 billion and \$20.1 billion of outstanding fully-insured loans, of which \$11.2 billion and \$14.0 billion had FHA insurance with the remainder protected by long-term standby agreements.

Table 23 presents certain residential mortgage key credit statistics on both a reported basis and excluding the fully-insured loan portfolio. The following discussion presents the residential mortgage portfolio excluding the fully-insured loan portfolio.

Table 23 Residential Mortgage – Key Credit Statistics

	Reported Basis (1)		Excluding Fully-insured Loans (1)	
	December 31			
(Dollars in millions)	2019	2018	2019	2018
Outstandings	\$ 236,169	\$ 208,557	\$ 217,479	\$ 188,427
Accruing past due 30 days or more	3,108	3,945	1,296	1,155
Accruing past due 90 days or more	1,088	1,884	—	—
Nonperforming loans	1,470	1,893	1,470	1,893
Percent of portfolio				
Refreshed LTV greater than 90 but less than or equal to 100	2%	2%	2%	2%
Refreshed LTV greater than 100	1	1	1	1
Refreshed FICO below 620	3	4	2	2
2006 and 2007 vintages (2)	4	6	4	6

(1) Outstandings, accruing past due, nonperforming loans and percentages of portfolio exclude loans accounted for under the fair value option.

(2) These vintages of loans accounted for \$365 million, or 25 percent, and \$536 million, or 28 percent, of nonperforming residential mortgage loans at December 31, 2019 and 2018.

Nonperforming residential mortgage loans decreased \$423 million in 2019 primarily driven by sales. Of the nonperforming residential mortgage loans at December 31, 2019, \$616 million, or 42 percent, were current on contractual payments. Loans accruing past due 30 days or more increased \$141 million.

Net charge-offs improved \$75 million to a net recovery of \$47 million in 2019 compared to net charge-offs of \$28 million in 2018 primarily due to recoveries from the sales of previously charged-off loans and continued improvement in credit quality.

Of the \$217.5 billion in total residential mortgage loans outstanding at December 31, 2019, as shown in Table 23, 26 percent were originated as interest-only loans. The outstanding balance of interest-only residential mortgage loans that have entered the amortization period was \$7.4 billion, or 13 percent, at December 31, 2019. Residential mortgage loans that have entered the amortization period generally have experienced a higher rate of early stage delinquencies and nonperforming status compared to the residential mortgage portfolio as a whole. At December 31, 2019, \$124 million, or two percent, of outstanding interest-only residential mortgages that had entered the amortization period were accruing past due 30 days or more

compared to \$1.3 billion, or one percent, for the entire residential mortgage portfolio. In addition, at December 31, 2019, \$260 million, or four percent, of outstanding interest-only residential mortgage loans that had entered the amortization period were nonperforming, of which \$108 million were contractually current, compared to \$1.5 billion, or one percent, for the entire residential mortgage portfolio. Loans that have yet to enter the amortization period in our interest-only residential mortgage portfolio are primarily well-collateralized loans to our wealth management clients and have an interest-only period of three to ten years. Approximately 94 percent of these loans that have yet to enter the amortization period will not be required to make a fully-amortizing payment until 2022 or later.

Table 24 presents outstandings, nonperforming loans and net charge-offs by certain state concentrations for the residential mortgage portfolio. The Los Angeles-Long Beach-Santa Ana Metropolitan Statistical Area (MSA) within California represented 16 percent of outstandings at both December 31, 2019 and 2018. In the New York area, the New York-Northern New Jersey-Long Island MSA made up 13 percent of outstandings at both December 31, 2019 and 2018.

Table 24 Residential Mortgage State Concentrations

	Outstandings (1)		Nonperforming (1)			
	December 31				Net Charge-offs	
(Dollars in millions)	2019	2018	2019	2018	2019	2018
California	\$ 88,998	\$ 76,323	\$ 274	\$ 314	\$ (22)	\$ (22)
New York	22,385	19,219	196	222	5	10
Florida	12,833	11,624	143	221	(12)	(6)
Texas	8,943	7,820	65	102	1	4
New Jersey	8,734	7,051	77	98	(4)	8
Other	75,586	66,390	715	936	(15)	34
Residential mortgage loans	\$ 217,479	\$ 188,427	\$ 1,470	\$ 1,893	\$ (47)	\$ 28
Fully-insured loan portfolio	18,690	20,130				
Total residential mortgage loan portfolio	\$ 236,169	\$ 208,557				

(1) Outstandings and nonperforming loans exclude loans accounted for under the fair value option.

Home Equity

At December 31, 2019, the home equity portfolio made up nine percent of the consumer portfolio and was comprised of home equity lines of credit (HELOCs), home equity loans and reverse mortgages. We no longer originate home equity loans or reverse mortgages.

At December 31, 2019, our HELOC portfolio had an outstanding balance of \$37.5 billion, or 93 percent of the total home equity portfolio, compared to \$44.3 billion, or 92 percent, at December 31, 2018. HELOCs generally have an initial draw period of 10 years, and after the initial draw period ends, the loans generally convert to 15- or 20-year amortizing loans.

At December 31, 2019, our home equity loan portfolio had an outstanding balance of \$1.2 billion, or three percent of the total home equity portfolio, compared to \$1.8 billion, or four percent, at December 31, 2018. At December 31, 2019, our reverse mortgage portfolio had an outstanding balance of \$1.5 billion, or four percent of the total home equity portfolio, compared to \$2.2 billion, also four percent, at December 31, 2018.

At December 31, 2019, 80 percent of the home equity portfolio was in *Consumer Banking*, 12 percent was in *All Other* and the remainder of the portfolio was primarily in *GWIM*. Outstanding balances in the home equity portfolio decreased \$8.1 billion in 2019 primarily due to paydowns and loan sales of \$2.0 billion outpacing new originations and draws on existing lines. Of the total home equity portfolio at December 31, 2019 and 2018, \$15.0 billion, or 37 percent, and \$17.3 billion, or 36 percent, were in first-lien positions. At December 31, 2019, outstanding balances in the home equity portfolio that were in a second-lien or more junior-lien position and where we also held the first-lien loan totaled \$6.9 billion, or 17 percent of our total home equity portfolio.

Unused HELOCs totaled \$43.6 billion and \$43.1 billion at December 31, 2019 and 2018. The increase was primarily driven by the impact of lower utilization of open lines and new production partially offset by customers choosing to close accounts. The HELOC utilization rate was 46 percent and 51 percent at December 31, 2019 and 2018.

Table 25 presents certain home equity portfolio key credit statistics.

Table 25 Home Equity – Key Credit Statistics (1)

(Dollars in millions)	December 31	
	2019	2018
Outstandings	\$ 40,208	\$ 48,286
Accruing past due 30 days or more (2)	218	363
Nonperforming loans (2)	536	1,893
Percent of portfolio		
Refreshed CLTV greater than 90 but less than or equal to 100	1%	2%
Refreshed CLTV greater than 100	2	3
Refreshed FICO below 620	3	5
2006 and 2007 vintages (3)	18	22

(1) Outstandings, accruing past due, nonperforming loans and percentages of the portfolio exclude loans accounted for under the fair value option.

(2) Accruing past due 30 days or more includes \$30 million and \$48 million and nonperforming loans include \$57 million and \$218 million of loans where we serviced the underlying first lien at December 31, 2019 and 2018.

(3) These vintages of loans accounted for 34 percent and 49 percent of nonperforming home equity loans at December 31, 2019 and 2018.

Nonperforming outstanding balances in the home equity portfolio decreased \$1.4 billion in 2019 as outflows, primarily sales, outpaced new inflows. Of the nonperforming home equity loans at December 31, 2019, \$241 million, or 45 percent, were current on contractual payments. Nonperforming loans that are contractually current primarily consist of collateral-dependent TDRs, including those that have been discharged in Chapter 7 bankruptcy, junior-lien loans where the underlying first lien is 90 days or more past due, as well as loans that have not yet demonstrated a sustained period of payment performance following a TDR. In addition, \$162 million, or 30 percent, of nonperforming home equity loans were 180 days or more past due and had been written down to the estimated fair value of the

collateral, less costs to sell. Accruing loans that were 30 days or more past due decreased \$145 million in 2019.

Net charge-offs decreased \$356 million to a net recovery of \$358 million in 2019 compared to a net recovery of \$2 million in 2018 primarily driven by recoveries from the sales of previously charged off non-core home equity loans.

Of the \$40.2 billion in total home equity portfolio outstandings at December 31, 2019, as shown in Table 25, 17 percent require interest-only payments. The outstanding balance of HELOCs that have reached the end of their draw period and have entered the amortization period was \$11.5 billion at December 31, 2019. The HELOCs that have entered the amortization period have experienced a higher percentage of early stage delinquencies and

nonperforming status when compared to the HELOC portfolio as a whole. At December 31, 2019, \$149 million, or one percent, of outstanding HELOCs that had entered the amortization period were accruing past due 30 days or more. In addition, at December 31, 2019, \$472 million, or four percent, were nonperforming. Loans that have yet to enter the amortization period in our interest-only portfolio are primarily post-2008 vintages and generally have better credit quality than the previous vintages that had entered the amortization period. We communicate to contractually current customers more than a year prior to the end of their draw period to inform them of the potential change to the payment structure before entering the amortization period, and provide payment options to customers prior to the end of the draw period.

Although we do not actively track how many of our home equity customers pay only the minimum amount due on their home equity

loans and lines, we can infer some of this information through a review of our HELOC portfolio that we service and that is still in its revolving period. During 2019, 13 percent of these customers with an outstanding balance did not pay any principal on their HELOCs.

Table 26 presents outstandings, nonperforming balances and net charge-offs by certain state concentrations for the home equity portfolio. In the New York area, the New York-Northern New Jersey-Long Island MSA made up 13 percent of the outstanding home equity portfolio at both December 31, 2019 and 2018. The Los Angeles-Long Beach-Santa Ana MSA within California made up 11 percent of the outstanding home equity portfolio at both December 31, 2019 and 2018.

Table 26 Home Equity State Concentrations

	Outstandings (1)		Nonperforming (1)			
	December 31				Net Charge-offs	
(Dollars in millions)	2019	2018	2019	2018	2019	2018
California	\$ 11,232	\$ 13,515	\$ 101	\$ 536	\$ (117)	\$ (54)
Florida	4,327	5,418	71	315	(74)	1
New Jersey	3,216	3,871	56	150	(8)	25
New York	2,899	3,590	85	194	(1)	23
Massachusetts	2,023	2,400	29	65	(5)	5
Other	16,511	19,492	194	633	(153)	(2)
Total home equity loan portfolio	\$ 40,208	\$ 48,286	\$ 536	\$ 1,893	\$ (358)	\$ (2)

(1) Outstandings and nonperforming loans exclude loans accounted for under the fair value option.

Credit Card

At December 31, 2019, 97 percent of the credit card portfolio was managed in *Consumer Banking* with the remainder in *GWIM*. Outstandings in the credit card portfolio decreased \$730 million in 2019 to \$97.6 billion. In 2019, net charge-offs increased \$111 million to \$2.9 billion compared to net charge-offs of \$2.8 billion in 2018. Credit card loans 30 days or more past due and still

accruing interest increased \$46 million and loans 90 days or more past due and still accruing interest increased \$48 million. These increases were driven by portfolio seasoning.

Unused lines of credit for credit card increased to \$336.9 billion at December 31, 2019 from \$334.8 billion at December 31, 2018.

Table 27 presents certain state concentrations for the credit card portfolio.

Table 27 Credit Card State Concentrations

(Dollars in millions)					Accruing Past Due 90 Days or More			
	Outstandings							
	December 31						Net Charge-offs	
	2019	2018	2019	2018		2019	2018	
California	\$ 16,135	\$ 16,062	\$ 178	\$ 163	\$	526	\$ 479	
Florida	9,075	8,840	135	119		363	332	
Texas	7,815	7,730	93	84		241	224	
New York	5,975	6,066	80	81		243	268	
Washington	4,639	4,558	26	24		71	63	
Other	53,969	55,082	530	523		1,504	1,471	
Total credit card portfolio	\$ 97,608	\$ 98,338	\$ 1,042	\$ 994	\$	2,948	\$ 2,837	

Direct/Indirect Consumer

At December 31, 2019, 56 percent of the direct/indirect portfolio was included in *Consumer Banking* (consumer auto and specialty lending – automotive, recreational vehicle, marine, aircraft and consumer personal loans) and 44 percent was included in *GWIM* (principally securities-based lending loans).

Outstandings of \$91.0 billion in the direct/indirect portfolio were relatively unchanged at December 31, 2019.

Table 28 presents certain state concentrations for the direct/indirect consumer loan portfolio.

Table 28 Direct/Indirect State Concentrations

(Dollars in millions)	Outstandings				Accruing Past Due 90 Days or More			
	December 31				Net Charge-offs			
	2019	2018	2019	2018	2019	2018		
California	\$ 11,912	\$ 11,734	\$ 4	\$ 4	\$ 49	\$ 21		
Florida	10,154	10,240	4	4	27	36		
Texas	9,516	9,876	5	6	29	30		
New York	6,394	6,296	1	2	12	9		
New Jersey	3,468	3,308	1	1	4	2		
Other	49,554	49,712	18	21	88	97		
Total direct/indirect loan portfolio	\$ 90,998	\$ 91,166	\$ 33	\$ 38	\$ 209	\$ 195		

Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity

Table 29 presents nonperforming consumer loans, leases and foreclosed properties activity during 2019 and 2018. During 2019, nonperforming consumer loans decreased \$1.8 billion to \$2.1 billion primarily driven by loan sales of \$1.5 billion.

At December 31, 2019, \$606 million, or 29 percent, of nonperforming loans were 180 days or more past due and had been written down to their estimated property value less costs to sell. In addition, at December 31, 2019, \$901 million, or 44

percent, of nonperforming consumer loans were modified and are now current after successful trial periods, or are current loans classified as nonperforming loans in accordance with applicable policies.

Foreclosed properties decreased \$15 million in 2019 to \$229 million as liquidations outpaced additions.

Nonperforming loans also include certain loans that have been modified in TDRs where economic concessions have been granted to borrowers experiencing financial difficulties. Nonperforming TDRs are included in Table 29.

Table 29 Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity

(Dollars in millions)	2019	2018
Nonperforming loans and leases, January 1	\$ 3,842	\$ 5,166
Additions	1,407	2,440
Reductions:		
Paydowns and payoffs	(701)	(958)
Sales	(1,523)	(969)
Returns to performing status ⁽¹⁾	(766)	(1,283)
Charge-offs	(111)	(401)
Transfers to foreclosed properties	(95)	(151)
Transfers to loans held-for-sale	—	(2)
Total net reductions to nonperforming loans and leases	(1,789)	(1,324)
Total nonperforming loans and leases, December 31	2,053	3,842
Foreclosed properties, December 31 ⁽²⁾	229	244
Nonperforming consumer loans, leases and foreclosed properties, December 31	\$ 2,282	\$ 4,086
Nonperforming consumer loans and leases as a percentage of outstanding consumer loans and leases ⁽³⁾	0.44 %	0.86 %
Nonperforming consumer loans, leases and foreclosed properties as a percentage of outstanding consumer loans, leases and foreclosed properties ⁽³⁾	0.49	0.92

⁽¹⁾ Consumer loans may be returned to performing status when all principal and interest is current and full repayment of the remaining contractual principal and interest is expected, or when the loan otherwise becomes well-secured and is in the process of collection.

⁽²⁾ Foreclosed property balances do not include properties insured by certain government-guaranteed loans, principally FHA-insured, of \$260 million and \$488 million at December 31, 2019 and 2018.

⁽³⁾ Outstanding consumer loans and leases exclude loans accounted for under the fair value option.

Table 30 presents TDRs for the consumer real estate portfolio. Performing TDR balances are excluded from nonperforming loans and leases in Table 29.

Table 30 Consumer Real Estate Troubled Debt Restructurings

(Dollars in millions)	December 31, 2019			December 31, 2018		
	Nonperforming	Performing	Total	Nonperforming	Performing	Total
Residential mortgage ^(1, 2)	\$ 921	\$ 3,832	\$ 4,753	\$ 1,209	\$ 4,988	\$ 6,197
Home equity ⁽³⁾	252	977	1,229	1,107	1,252	2,359
Total consumer real estate troubled debt restructurings	\$ 1,173	\$ 4,809	\$ 5,982	\$ 2,316	\$ 6,240	\$ 8,556

⁽¹⁾ At December 31, 2019 and 2018, residential mortgage TDRs deemed collateral dependent totaled \$1.2 billion and \$1.6 billion, and included \$748 million and \$960 million of loans classified as nonperforming and \$468 million and \$605 million of loans classified as performing.

⁽²⁾ At December 31, 2019 and 2018, residential mortgage performing TDRs include \$2.1 billion and \$2.8 billion of loans that were fully-insured.

⁽³⁾ At December 31, 2019 and 2018, home equity TDRs deemed collateral dependent totaled \$442 million and \$1.3 billion, and include \$209 million and \$961 million of loans classified as nonperforming and \$233 million and \$322 million of loans classified as performing.

In addition to modifying consumer real estate loans, we work with customers who are experiencing financial difficulty by modifying credit card and other consumer loans. Credit card and other consumer loan modifications generally involve a reduction

in the customer's interest rate on the account and placing the customer on a fixed payment plan not exceeding 60 months, all of which are considered TDRs (the renegotiated TDR portfolio).

Modifications of credit card and other consumer loans are made through renegotiation programs utilizing direct customer contact, but may also utilize external renegotiation programs. The renegotiated TDR portfolio is excluded in large part from Table 29 as substantially all of the loans remain on accrual status until either charged off or paid in full. At December 31, 2019 and 2018, our renegotiated TDR portfolio was \$679 million and \$566 million, of which \$570 million and \$481 million were current or less than 30 days past due under the modified terms. The increase in the renegotiated TDR portfolio was primarily driven by new renegotiated enrollments outpacing runoff of existing portfolios.

Commercial Portfolio Credit Risk Management

Credit risk management for the commercial portfolio begins with an assessment of the credit risk profile of the borrower or counterparty based on an analysis of its financial position. As part of the overall credit risk assessment, our commercial credit exposures are assigned a risk rating and are subject to approval based on defined credit approval standards. Subsequent to loan origination, risk ratings are monitored on an ongoing basis, and if necessary, adjusted to reflect changes in the financial condition, cash flow, risk profile or outlook of a borrower or counterparty. In making credit decisions, we consider risk rating, collateral, country, industry and single-name concentration limits while also balancing these considerations with the total borrower or counterparty relationship. We use a variety of tools to continuously monitor the ability of a borrower or counterparty to perform under its obligations. We use risk rating aggregations to measure and evaluate concentrations within portfolios. In addition, risk ratings are a factor in determining the level of allocated capital and the allowance for credit losses.

As part of our ongoing risk mitigation initiatives, we attempt to work with clients experiencing financial difficulty to modify their loans to terms that better align with their current ability to pay. In situations where an economic concession has been granted to a borrower experiencing financial difficulty, we identify these loans as TDRs. For more information on our accounting policies regarding delinquencies, nonperforming status and net charge-offs for the commercial portfolio, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements.

Management of Commercial Credit Risk Concentrations

Commercial credit risk is evaluated and managed with the goal that concentrations of credit exposure continue to be aligned with our risk appetite. We review, measure and manage concentrations of credit exposure by industry, product, geography, customer relationship and loan size. We also review, measure and manage commercial real estate loans by geographic location and property type. In addition, within our non-U.S. portfolio, we evaluate exposures by region and by country. Tables 35, 38 and 41 summarize our concentrations. We also utilize syndications of

exposure to third parties, loan sales, hedging and other risk mitigation techniques to manage the size and risk profile of the commercial credit portfolio. For more information on our industry concentrations, see *Commercial Portfolio Credit Risk Management – Industry Concentrations* on page 64 and Table 38.

We account for certain large corporate loans and loan commitments, including issued but unfunded letters of credit which are considered utilized for credit risk management purposes, that exceed our single-name credit risk concentration guidelines under the fair value option. Lending commitments, both funded and unfunded, are actively managed and monitored, and as appropriate, credit risk for these lending relationships may be mitigated through the use of credit derivatives, with our credit view and market perspectives determining the size and timing of the hedging activity. In addition, we purchase credit protection to cover the funded portion as well as the unfunded portion of certain other credit exposures. To lessen the cost of obtaining our desired credit protection levels, credit exposure may be added within an industry, borrower or counterparty group by selling protection. These credit derivatives do not meet the requirements for treatment as accounting hedges. They are carried at fair value with changes in fair value recorded in other income.

In addition, we are a member of various securities and derivative exchanges and clearinghouses, both in the U.S. and other countries. As a member, we may be required to pay a pro-rata share of the losses incurred by some of these organizations as a result of another member default and under other loss scenarios. For more information, see *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements.

Commercial Credit Portfolio

During 2019, credit quality among large corporate and middle-market borrowers in our commercial and industrial portfolio remained strong. Credit quality of commercial real estate borrowers in most sectors remained stable with conservative LTV ratios. However, some of the real estate markets experienced slowing tenant demand and decelerating rental income.

Total commercial utilized credit exposure increased \$14.3 billion in 2019 to \$635.3 billion driven by higher loans and leases. The utilization rate for loans and leases, SBLCs and financial guarantees, and commercial letters of credit, in the aggregate, was 58 percent at December 31, 2019 and 59 percent at December 31, 2018.

Table 31 presents commercial credit exposure by type for utilized, unfunded and total binding committed credit exposure. Commercial utilized credit exposure includes SBLCs and financial guarantees and commercial letters of credit that have been issued and for which we are legally bound to advance funds under prescribed conditions during a specified time period, and excludes exposure related to trading account assets. Although funds have not yet been advanced, these exposure types are considered utilized for credit risk management purposes.

Table 31 Commercial Credit Exposure by Type

	Commercial Utilized (1)		Commercial Unfunded (2, 3, 4)		Total Commercial Committed	
	December 31					
(Dollars in millions)	2019	2018	2019	2018	2019	2018
Loans and leases	\$ 517,657	\$ 499,664	\$ 405,834	\$ 369,282	\$ 923,491	\$ 868,946
Derivative assets (5)	40,485	43,725	—	—	40,485	43,725
Standby letters of credit and financial guarantees	36,062	34,941	468	491	36,530	35,432
Debt securities and other investments	25,546	25,425	5,101	4,250	30,647	29,675
Loans held-for-sale	7,047	9,090	15,135	14,812	22,182	23,902
Operating leases	6,660	6,060	—	—	6,660	6,060
Commercial letters of credit	1,049	1,210	451	168	1,500	1,378
Other	800	898	—	—	800	898
Total	\$ 635,306	\$ 621,013	\$ 426,989	\$ 389,003	\$ 1,062,295	\$ 1,010,016

(1) Commercial utilized exposure includes loans of \$7.7 billion and \$3.7 billion and issued letters of credit with a notional amount of \$170 million and \$100 million accounted for under the fair value option at December 31, 2019 and 2018.

(2) Commercial unfunded exposure includes commitments accounted for under the fair value option with a notional amount of \$4.2 billion and \$3.0 billion at December 31, 2019 and 2018.

(3) Excludes unused business card lines, which are not legally binding.

(4) Includes the notional amount of unfunded legally binding lending commitments net of amounts distributed (i.e., syndicated or participated) to other financial institutions. The distributed amounts were \$10.6 billion and \$10.7 billion at December 31, 2019 and 2018.

(5) Derivative assets are carried at fair value, reflect the effects of legally enforceable master netting agreements and have been reduced by cash collateral of \$33.9 billion and \$32.4 billion at December 31, 2019 and 2018. Not reflected in utilized and committed exposure is additional non-cash derivative collateral held of \$35.2 billion and \$33.0 billion at December 31, 2019 and 2018, which consists primarily of other marketable securities.

Outstanding commercial loans and leases increased \$18.0 billion during 2019 primarily in the commercial and industrial portfolio. Nonperforming commercial loans increased \$397 million and commercial reservable criticized utilized exposure increased \$391 million driven by a small number of client downgrades across industries which were not indicative of broader issues in the

portfolio. The allowance for loan and lease losses for the commercial portfolio increased \$75 million to \$4.9 billion at December 31, 2019. For more information, see Allowance for Credit Losses on page 68. Table 32 presents our commercial loans and leases portfolio and related credit quality information at December 31, 2019 and 2018.

Table 32 Commercial Credit Quality

	Outstandings		Nonperforming		Accruing Past Due 90 Days or More	
	December 31					
(Dollars in millions)	2019	2018	2019	2018	2019	2018
Commercial and industrial:						
U.S. commercial	\$ 307,048	\$ 299,277	\$ 1,094	\$ 794	\$ 106	\$ 197
Non-U.S. commercial	104,966	98,776	43	80	8	—
Total commercial and industrial	412,014	398,053	1,137	874	114	197
Commercial real estate	62,689	60,845	280	156	19	4
Commercial lease financing	19,880	22,534	32	18	20	29
	494,583	481,432	1,449	1,048	153	230
U.S. small business commercial (1)	15,333	14,565	50	54	97	84
Commercial loans excluding loans accounted for under the fair value option	509,916	495,997	1,499	1,102	250	314
Loans accounted for under the fair value option (2)	7,741	3,667	—	—	—	—
Total commercial loans and leases	\$ 517,657	\$ 499,664	\$ 1,499	\$ 1,102	\$ 250	\$ 314

(1) Includes card-related products.

(2) Commercial loans accounted for under the fair value option include U.S. commercial of \$4.7 billion and \$2.5 billion and non-U.S. commercial of \$3.1 billion and \$1.1 billion at December 31, 2019 and 2018. For more information on the fair value option, see Note 22 – Fair Value Option to the Consolidated Financial Statements.

Table 33 presents net charge-offs and related ratios for our commercial loans and leases for 2019 and 2018.

Table 33 Commercial Net Charge-offs and Related Ratios

	Net Charge-offs		Net Charge-off Ratios (1)	
	2019	2018	2019	2018
(Dollars in millions)				
Commercial and industrial:				
U.S. commercial	\$ 256	\$ 215	0.08 %	0.07 %
Non-U.S. commercial	84	68	0.08	0.07
Total commercial and industrial	340	283	0.08	0.07
Commercial real estate	29	1	0.05	—
Commercial lease financing	21	(1)	0.10	(0.01)
	390	283	0.08	0.06
U.S. small business commercial	272	240	1.83	1.70
Total commercial	\$ 662	\$ 523	0.13	0.11

(1) Net charge-off ratios are calculated as net charge-offs divided by average outstanding loans and leases excluding loans accounted for under the fair value option.

Table 34 presents commercial reservable criticized utilized exposure by loan type. Criticized exposure corresponds to the Special Mention, Substandard and Doubtful asset categories as defined by regulatory authorities. At December 31, 2019 and 2018, 90 percent and 91 percent of commercial reservable criticized utilized exposure was secured.

Table 34 Commercial Reservable Criticized Utilized Exposure (1, 2)

	December 31			
	2019		2018	
(Dollars in millions)				
Commercial and industrial:				
U.S. commercial	\$ 8,272	2.46 %	\$ 7,986	2.43 %
Non-U.S. commercial	989	0.89	1,013	0.97
Total commercial and industrial	9,261	2.07	8,999	2.08
Commercial real estate	1,129	1.75	936	1.50
Commercial lease financing	329	1.66	366	1.62
	10,719	2.01	10,301	1.99
U.S. small business commercial	733	4.78	760	5.22
Total commercial reservable criticized utilized exposure (1)	\$ 11,452	2.09	\$ 11,061	2.08

(1) Total commercial reservable criticized utilized exposure includes loans and leases of \$10.7 billion and \$10.3 billion and commercial letters of credit of \$715 million and \$781 million at December 31, 2019 and 2018.

(2) Percentages are calculated as commercial reservable criticized utilized exposure divided by total commercial reservable utilized exposure for each exposure category.

Commercial and Industrial

Commercial and industrial loans include U.S. commercial and non-U.S. commercial portfolios.

U.S. Commercial

At December 31, 2019, 70 percent of the U.S. commercial loan portfolio, excluding small business, was managed in *Global Banking*, 16 percent in *Global Markets*, 13 percent in *GWIM* (generally business-purpose loans for high net worth clients) and the remainder primarily in *Consumer Banking*. U.S. commercial loans increased \$7.8 billion during 2019, across lines of business.

Non-U.S. Commercial

At December 31, 2019, 83 percent of the non-U.S. commercial loan portfolio was managed in *Global Banking* and 17 percent in *Global Markets*. Non-U.S. commercial loans increased \$6.2 billion during 2019, primarily in *Global Banking*. For information on the non-U.S. commercial portfolio, see Non-U.S. Portfolio on page 66.

Commercial Real Estate

Commercial real estate primarily includes commercial loans secured by non-owner-occupied real estate and is dependent on the sale or lease of the real estate as the primary source of

repayment. Outstanding loans increased \$1.8 billion, or three percent, during 2019 to \$62.7 billion due to new originations slightly outpacing paydowns. The portfolio remains diversified across property types and geographic regions. California represented the largest state concentration at 24 percent and 23 percent of the commercial real estate portfolio at December 31, 2019 and 2018. The commercial real estate portfolio is predominantly managed in *Global Banking* and consists of loans made primarily to public and private developers, and commercial real estate firms.

During 2019, we continued to see low default rates and solid credit quality in both the residential and non-residential portfolios. We use a number of proactive risk mitigation initiatives to reduce adversely rated exposure in the commercial real estate portfolio, including transfers of deteriorating exposures to management by independent special asset officers and the pursuit of loan restructurings or asset sales to achieve the best results for our customers and the Corporation.

Table 35 presents outstanding commercial real estate loans by geographic region, based on the geographic location of the collateral, and by property type.

Table 35 Outstanding Commercial Real Estate Loans

	December 31	
	2019	2018
(Dollars in millions)		
By Geographic Region		
California	\$ 14,910	\$ 14,002
Northeast	12,408	10,895
Southwest	8,408	7,339
Southeast	5,937	5,726
Florida	3,984	3,680
Illinois	3,349	2,989
Midwest	3,203	3,772
Midsouth	2,468	2,919
Northwest	1,638	2,178
Non-U.S.	3,724	4,240
Other (1)	2,660	3,105
Total outstanding commercial real estate loans	\$ 62,689	\$ 60,845
By Property Type		
Non-residential		
Office	\$ 17,902	\$ 17,246
Industrial / Warehouse	8,677	5,379
Shopping centers / Retail	8,183	8,798
Multi-family rental	7,250	7,762
Hotels / Motels	6,982	7,248
Unsecured	3,438	2,956
Multi-use	1,788	2,848
Other	6,958	7,029
Total non-residential	61,178	59,266
Residential	1,511	1,579
Total outstanding commercial real estate loans	\$ 62,689	\$ 60,845

(1) Includes unsecured loans to real estate investment trusts and national home builders whose portfolios of properties span multiple geographic regions and properties in the states of Colorado, Utah, Hawaii, Wyoming and Montana.

U.S. Small Business Commercial

The U.S. small business commercial loan portfolio is comprised of small business card loans and small business loans managed in *Consumer Banking*. Credit card-related products were 52 percent and 51 percent of the U.S. small business commercial portfolio at December 31, 2019 and 2018. Of the U.S. small business commercial net charge-offs, 94 percent and 95 percent were credit card-related products in 2019 and 2018.

Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity

Table 36 presents the nonperforming commercial loans, leases and foreclosed properties activity during 2019 and 2018.

Nonperforming loans do not include loans accounted for under the fair value option. During 2019, nonperforming commercial loans and leases increased \$397 million to \$1.5 billion. At December 31, 2019, 94 percent of commercial nonperforming loans, leases and foreclosed properties were secured and 64 percent were contractually current. Commercial nonperforming loans were carried at 88 percent of their unpaid principal balance before consideration of the allowance for loan and lease losses as the carrying value of these loans has been reduced to the estimated collateral value less costs to sell.

Table 36 Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity (1, 2)

	2019	2018
	\$	\$
(Dollars in millions)		
Nonperforming loans and leases, January 1	1,102	1,304
Additions	2,048	1,415
Reductions:		
Paydowns	(648)	(771)
Sales	(215)	(210)
Returns to performing status (3)	(120)	(246)
Charge-offs	(478)	(361)
Transfers to foreclosed properties	(9)	(12)
Transfers to loans held-for-sale	(181)	(17)
Total net reductions to nonperforming loans and leases	397	(202)
Total nonperforming loans and leases, December 31	1,499	1,102
Foreclosed properties, December 31	56	56
Nonperforming commercial loans, leases and foreclosed properties, December 31	\$ 1,555	\$ 1,158
Nonperforming commercial loans and leases as a percentage of outstanding commercial loans and leases (4)	0.29 %	0.22 %
Nonperforming commercial loans, leases and foreclosed properties as a percentage of outstanding commercial loans, leases and foreclosed properties (4)	0.30	0.23

(1) Balances do not include nonperforming loans held-for-sale of \$239 million and \$292 million at December 31, 2019 and 2018.

(2) Includes U.S. small business commercial activity. Small business card loans are excluded as they are not classified as nonperforming.

(3) Commercial loans and leases may be returned to performing status when all principal and interest is current and full repayment of the remaining contractual principal and interest is expected, or when the loan otherwise becomes well-secured and is in the process of collection. TDRs are generally classified as performing after a sustained period of demonstrated payment performance.

(4) Outstanding commercial loans exclude loans accounted for under the fair value option.

Table 37 presents our commercial TDRs by product type and performing status. U.S. small business commercial TDRs are comprised of renegotiated small business card loans and small business loans. The renegotiated small business card loans are not classified as nonperforming as they are charged off no later than the end of the month in which the loan becomes 180 days past due. For more information on TDRs, see *Note 5 – Outstanding Loans and Leases* to the Consolidated Financial Statements.

Table 37 Commercial Troubled Debt Restructurings

(Dollars in millions)	December 31, 2019			December 31, 2018		
	Nonperforming	Performing	Total	Nonperforming	Performing	Total
Commercial and industrial:						
U.S. commercial	\$ 617	\$ 999	\$ 1,616	\$ 306	\$ 1,092	\$ 1,398
Non-U.S. commercial	41	193	234	78	162	240
Total commercial and industrial	658	1,192	1,850	384	1,254	1,638
Commercial real estate	212	14	226	114	6	120
Commercial lease financing	18	31	49	3	68	71
	888	1,237	2,125	501	1,328	1,829
U.S. small business commercial	—	27	27	3	18	21
Total commercial troubled debt restructurings	\$ 888	\$ 1,264	\$ 2,152	\$ 504	\$ 1,346	\$ 1,850

Industry Concentrations

Table 38 presents commercial committed and utilized credit exposure by industry and the total net credit default protection purchased to cover the funded and unfunded portions of certain credit exposures. Our commercial credit exposure is diversified across a broad range of industries. Total commercial committed exposure increased \$52.3 billion, or five percent, during 2019 to \$1.1 trillion. The increase in commercial committed exposure was concentrated in the Real estate, Utilities and Finance companies industry sectors. Increases were partially offset by decreased exposure to the Pharmaceuticals and biotechnology, Technology hardware and equipment, and Government and public education industry sectors.

Industry limits are used internally to manage industry concentrations and are based on committed exposure that is allocated on an industry-by-industry basis. A risk management framework is in place to set and approve industry limits as well

as to provide ongoing monitoring. The MRC oversees industry limit governance.

Asset managers and funds, our largest industry concentration with committed exposure of \$110.0 billion, increased \$2.1 billion, or two percent, during 2019.

Real estate, our second largest industry concentration with committed exposure of \$96.3 billion, increased \$9.8 billion, or 11 percent, during 2019. This growth occurred primarily in the category of industrial and warehouse buildings, partially offset by declines in REITs.

Capital goods, our third largest industry concentration with committed exposure of \$80.9 billion, increased \$5.8 billion, or eight percent, during 2019 with the growth largely occurring in the trading companies and distributors industry categories, partially offset by a decrease in industrial conglomerates. For more information on the commercial real estate and related portfolios, see Commercial Portfolio Credit Risk Management – Commercial Real Estate on page 62.

Table 38 Commercial Credit Exposure by Industry (1)

	Commercial Utilized		Total Commercial Committed (2)	
	December 31			
(Dollars in millions)	2019	2018	2019	2018
Asset managers and funds	\$ 71,289	\$ 71,756	\$ 109,972	\$ 107,888
Real estate (3)	70,341	65,328	96,349	86,514
Capital goods	41,060	39,192	80,871	75,080
Finance companies	40,171	36,662	63,940	56,659
Healthcare equipment and services	34,353	35,763	55,918	56,489
Government and public education	41,889	43,675	53,566	54,749
Materials	26,663	27,347	52,128	51,865
Consumer services	28,434	25,702	49,071	43,298
Retailing	25,868	25,333	48,317	47,507
Food, beverage and tobacco	24,163	23,586	45,956	42,745
Commercial services and supplies	23,102	22,623	38,943	39,349
Energy	16,407	13,727	36,327	32,279
Utilities	12,383	12,035	36,060	27,623
Transportation	23,448	22,814	33,027	31,523
Global commercial banks	26,492	26,583	28,670	28,627
Individuals and trusts	18,926	18,643	27,815	25,019
Technology hardware and equipment	10,645	13,014	24,071	26,228
Media	12,429	12,132	23,629	24,502
Vehicle dealers	18,013	17,603	21,435	20,446
Consumer durables and apparel	10,193	9,904	21,245	20,199
Software and services	10,432	8,809	20,556	19,172
Pharmaceuticals and biotechnology	5,962	7,430	20,203	23,634
Telecommunication services	9,144	8,686	16,103	14,166
Insurance	6,669	8,674	15,214	15,807
Automobiles and components	7,345	7,131	14,910	13,893
Financial markets infrastructure (clearinghouses)	9,351	8,317	11,851	10,042
Food and staples retailing	6,290	4,787	10,392	9,093
Religious and social organizations	3,844	3,757	5,756	5,620
Total commercial credit exposure by industry	\$ 635,306	\$ 621,013	\$ 1,062,295	\$ 1,010,016
Net credit default protection purchased on total commitments (4)			\$ (3,349)	\$ (2,663)

(1) Includes U.S. small business commercial exposure.

(2) Includes the notional amount of unfunded legally binding lending commitments net of amounts distributed (i.e., syndicated or participated) to other financial institutions. The distributed amounts were \$10.6 billion and \$10.7 billion at December 31, 2019 and 2018.

(3) Industries are viewed from a variety of perspectives to best isolate the perceived risks. For purposes of this table, the real estate industry is defined based on the primary business activity of the borrowers or counterparties using operating cash flows and primary source of repayment as key factors.

(4) Represents net notional credit protection purchased to hedge funded and unfunded exposures for which we elected the fair value option, as well as certain other credit exposures. For more information, see Commercial Portfolio Credit Risk Management – Risk Mitigation.

Risk Mitigation

We purchase credit protection to cover the funded portion as well as the unfunded portion of certain credit exposures. To lower the cost of obtaining our desired credit protection levels, we may add credit exposure within an industry, borrower or counterparty group by selling protection.

At December 31, 2019 and 2018, net notional credit default protection purchased in our credit derivatives portfolio to hedge our funded and unfunded exposures for which we elected the fair value option, as well as certain other credit exposures, was \$3.3 billion and \$2.7 billion. We recorded net losses of \$145 million in 2019 compared to net losses of \$2 million in 2018 on these positions. The gains and losses on these instruments were offset by gains and losses on the related exposures. The Value-at-Risk (VaR) results for these exposures are included in the fair value

option portfolio information in Table 45. For more information, see Trading Risk Management on page 72.

Tables 39 and 40 present the maturity profiles and the credit exposure debt ratings of the net credit default protection portfolio at December 31, 2019 and 2018.

Table 39 Net Credit Default Protection by Maturity

	December 31	
	2019	2018
Less than or equal to one year	54 %	20 %
Greater than one year and less than or equal to five years	45	78
Greater than five years	1	2
Total net credit default protection	100 %	100 %

Table 40 Net Credit Default Protection by Credit Exposure Debt Rating

	Net Notional (1)	Percent of Total	Net Notional (1)	Percent of Total
	December 31			
(Dollars in millions)	2019		2018	
Ratings (2, 3)				
A	\$ (697)	20.8 %	\$ (700)	26.3 %
BBB	(1,089)	32.5	(501)	18.8
BB	(766)	22.9	(804)	30.2
B	(373)	11.1	(422)	15.8
CCC and below	(119)	3.6	(205)	7.7
NR (4)	(305)	9.1	(31)	1.2
Total net credit default protection	\$ (3,349)	100.0 %	\$ (2,663)	100.0 %

(1) Represents net credit default protection purchased.

(2) Ratings are refreshed on a quarterly basis.

(3) Ratings of BBB- or higher are considered to meet the definition of investment grade.

(4) NR is comprised of index positions held and any names that have not been rated.

In addition to our net notional credit default protection purchased to cover the funded and unfunded portion of certain credit exposures, credit derivatives are used for market-making activities for clients and establishing positions intended to profit from directional or relative value changes. We execute the majority of our credit derivative trades in the OTC market with large, multinational financial institutions, including broker-dealers and, to a lesser degree, with a variety of other investors. Because these transactions are executed in the OTC market, we are subject to settlement risk. We are also subject to credit risk in the event that these counterparties fail to perform under the terms of these contracts. In order to properly reflect counterparty credit risk, we record counterparty credit risk valuation adjustments on certain derivative assets, including our purchased credit default protection.

In most cases, credit derivative transactions are executed on a daily margin basis. Therefore, events such as a credit downgrade, depending on the ultimate rating level, or a breach of credit covenants would typically require an increase in the amount of collateral required by the counterparty, where applicable, and/or

allow us to take additional protective measures such as early termination of all trades. For more information on credit derivatives and counterparty credit risk valuation adjustments, see *Note 3 – Derivatives* to the Consolidated Financial Statements.

Non-U.S. Portfolio

Our non-U.S. credit and trading portfolios are subject to country risk. We define country risk as the risk of loss from unfavorable economic and political conditions, currency fluctuations, social instability and changes in government policies. A risk management framework is in place to measure, monitor and manage non-U.S. risk and exposures. In addition to the direct risk of doing business in a country, we also are exposed to indirect country risks (e.g., related to the collateral received on secured financing transactions or related to client clearing activities). These indirect exposures are managed in the normal course of business through credit, market and operational risk governance, rather than through country risk governance.

Table 41 presents our 20 largest non-U.S. country exposures at December 31, 2019. These exposures accounted for 88 percent and 89 percent of our total non-U.S. exposure at December 31, 2019 and 2018. Net country exposure for these 20 countries increased \$8.5 billion in 2019, primarily driven by increased sovereign and corporate exposure across multiple countries.

Non-U.S. exposure is presented on an internal risk management basis and includes sovereign and non-sovereign credit exposure, securities and other investments issued by or domiciled in countries other than the U.S.

Funded loans and loan equivalents include loans, leases, and other extensions of credit and funds, including letters of credit and due from placements. Unfunded commitments are the undrawn portion of legally binding commitments related to loans and loan equivalents. Net counterparty exposure includes the fair value of derivatives, including the counterparty risk associated with credit default swaps (CDS), and secured financing transactions. Securities and other investments are carried at fair value and long securities exposures are netted against short exposures with the same underlying issuer to, but not below, zero. Net country exposure represents country exposure less hedges and credit default protection purchased, net of credit default protection sold.

Table 41 Top 20 Non-U.S. Countries Exposure

(Dollars in millions)	Funded Loans and Loan Equivalents	Unfunded Loan Commitments	Net Counterparty Exposure	Securities/ Other Investments	Country Exposure at December 31 2019	Hedges and Credit Default Protection	Net Country Exposure at December 31 2019	Increase (Decrease) from December 31 2018
United Kingdom	\$ 29,156	\$ 17,341	\$ 7,800	\$ 3,545	\$ 57,842	\$ (1,998)	\$ 55,844	\$ 990
Germany	21,920	7,408	1,828	1,967	33,123	(2,295)	30,828	2,171
Canada	7,967	8,255	1,690	2,879	20,791	(669)	20,122	607
France	7,243	9,208	876	969	18,296	(2,041)	16,255	3,604
China	13,304	497	1,085	949	15,835	(248)	15,587	946
India	7,817	364	398	3,660	12,239	(222)	12,017	905
Brazil	7,393	716	218	3,683	12,010	(238)	11,772	1,523
Australia	6,100	3,583	415	1,443	11,541	(439)	11,102	1,172
Japan	8,450	896	1,002	1,589	11,937	(1,405)	10,532	(9,491)
Netherlands	6,322	3,585	330	876	11,113	(786)	10,327	(1,250)
South Korea	5,981	758	386	1,762	8,887	(182)	8,705	(465)
Singapore	3,749	435	172	3,528	7,884	(58)	7,826	2,309
Mexico	4,190	1,733	224	1,814	7,961	(150)	7,811	1,575
Switzerland	4,387	2,947	213	325	7,872	(487)	7,385	(379)
Hong Kong	5,106	353	434	1,194	7,087	(31)	7,056	(180)
Belgium	5,077	1,259	526	159	7,021	(514)	6,507	929
Italy	2,353	2,303	510	1,386	6,552	(1,175)	5,377	2,296
Spain	3,153	1,073	258	867	5,351	(629)	4,722	72
United Arab Emirates	3,267	229	119	10	3,625	(38)	3,587	(62)
Ireland	2,142	979	76	201	3,398	(31)	3,367	1,206
Total top 20 non-U.S. countries exposure	\$ 155,077	\$ 63,922	\$ 18,560	\$ 32,806	\$ 270,365	\$ (13,636)	\$ 256,729	\$ 8,478

A number of economic conditions and geopolitical events have given rise to risk aversion in certain emerging markets. Additionally, in light of ongoing trade tensions, we continue to closely monitor our exposures to tariff-sensitive regions and industries, particularly to countries that account for a large percentage of U.S. trade, such as China.

Our largest emerging market country exposure at December 31, 2019 was China, with net exposure of \$15.6 billion, concentrated in large state-owned companies, subsidiaries of multinational corporations and commercial banks.

The economic performance in the EU remains uncertain, including as a result of the uncertainty surrounding the terms of a potential trade agreement and other terms associated with the future relationship between the U.K. and the EU, which could weigh unevenly on the economic performance of EU countries generally, and even more heavily on that of the U.K. For more information, see Item 1A. Risk Factors – Geopolitical on page 10 and Executive Summary – Recent Developments – U.K. Exit from the EU on page 23. Our largest EU country exposure at December 31, 2019 was

the U.K. with net exposure of \$55.8 billion, which represents a \$990 million increase from December 31, 2018. Our second largest EU exposure was Germany with net exposure of \$30.8 billion as of December 31, 2019, which represents a \$2.2 billion increase from December 31, 2018. The increase in Germany was primarily driven by an increase in sovereign exposure.

Table 42 presents countries that had total cross-border exposure, including the notional amount of cash loaned under secured financing agreements, exceeding one percent of our total assets at December 31, 2019. Local exposure, defined as exposure booked in local offices of a respective country with clients in the same country, is excluded. At December 31, 2019, the U.K. and France were the only countries where their respective total cross-border exposures exceeded one percent of our total assets. At December 31, 2019, Germany had total cross-border exposure of \$19.4 billion representing 0.80 percent of our total assets. No other countries had total cross-border exposure that exceeded 0.75 percent of our total assets at December 31, 2019.

Table 42 Total Cross-border Exposure Exceeding One Percent of Total Assets

(Dollars in millions)	December 31	Public Sector	Banks	Private Sector	Cross-border Exposure	Exposure as a Percent of Total Assets
United Kingdom	2019	\$ 1,859	\$ 3,580	\$ 93,232	\$ 98,671	4.05%
	2018	1,505	3,458	46,191	51,154	2.17
	2017	923	2,984	47,205	51,112	2.24
France	2019	736	2,473	23,172	26,381	1.08
	2018	633	2,385	29,847	32,865	1.40
	2017	2,964	1,521	27,903	32,388	1.42

Provision for Credit Losses

The provision for credit losses increased \$308 million to \$3.6 billion in 2019 compared to 2018. The provision for credit losses was \$58 million lower than net charge-offs for 2019, resulting in a decrease in the allowance for credit losses. This compared to a decrease of \$481 million in the allowance for credit losses in 2018. Net charge-offs in 2019 were \$3.6 billion compared to \$3.8 billion in 2018.

The provision for credit losses for the consumer portfolio decreased \$117 million to \$2.8 billion in 2019 compared to 2018. The decrease was primarily driven by consumer real estate loan sales.

The provision for credit losses for the commercial portfolio, including unfunded lending commitments, increased \$425 million to \$758 million in 2019 compared to 2018. The increase was due in part to energy reserve releases in the prior-year periods.

Assuming a stable economic environment in 2020 compared to the end of 2019, we expect net charge-offs of approximately \$1 billion per quarter in 2020. In view of the newly adopted accounting standard on the measurement of the allowance for credit losses, we expect the provision for credit losses to be modestly higher than net charge-offs in 2020, assuming no change in the current economic outlook and estimates of loan growth, including product mix. For more information regarding the new accounting standard, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements.

Allowance for Credit Losses

Allowance for Loan and Lease Losses

The allowance for loan and lease losses is comprised of two components. The first component covers nonperforming commercial loans and TDRs. The second component covers loans and leases on which there are incurred losses that are not yet individually identifiable, as well as incurred losses that may not be represented in the loss forecast models. We evaluate the adequacy of the allowance for loan and lease losses based on the total of these two components, each of which is described in more detail below. The allowance for loan and lease losses excludes loans held-for-sale (LHFS) and loans accounted for under the fair value option as the fair value reflects a credit risk component.

The first component of the allowance for loan and lease losses covers both nonperforming commercial loans and all TDRs within the consumer and commercial portfolios. These loans are subject to impairment measurement based on the present value of projected future cash flows discounted at the loan's original effective interest rate, or in certain circumstances, impairment may also be based upon the collateral value or the loan's observable market price if available. Impairment measurement for the renegotiated consumer credit card and small business credit card TDR portfolios is based on the present value of projected cash flows discounted using the average portfolio contractual interest rate, excluding promotionally priced loans, in effect prior to restructuring. For purposes of computing this specific loss component of the allowance, larger impaired loans are evaluated individually and smaller impaired loans are evaluated as a pool using historical experience for the respective product types and risk ratings of the loans.

The second component of the allowance for loan and lease losses covers the remaining consumer and commercial loans and leases that have incurred losses that are not yet individually identifiable. The allowance for consumer (including credit card and other consumer loans) and certain homogeneous commercial loan and lease products is based on aggregated portfolio evaluations, which include both quantitative and qualitative components,

generally by product type. Loss forecast models are utilized that consider a variety of factors including, but not limited to, historical loss experience, estimated defaults or foreclosures based on portfolio trends, delinquencies, economic trends, credit scores and the amount of loss in the event of default. Our consumer real estate loss forecast model estimates the portion of loans that will default based on individual loan attributes, the most significant of which are refreshed LTV or combined loan-to-value (CLTV), and borrower credit score as well as vintage and geography, all of which are further broken down into current delinquency status. Additionally, we incorporate the delinquency status of underlying first-lien loans on our junior-lien home equity portfolio in our allowance process. Incorporating refreshed LTV and CLTV into our probability of default allows us to factor the impact of changes in home prices into our allowance for loan and lease losses. These loss forecast models are updated on a quarterly basis to incorporate information reflecting the current economic environment. As of December 31, 2019, the loss forecast process resulted in reductions in the allowance related to the residential mortgage and home equity portfolios compared to December 31, 2018.

The allowance for commercial loan and lease losses is established by product type after analyzing historical loss experience, internal risk rating, current economic conditions, industry performance trends, geographic and obligor concentrations within each portfolio and any other pertinent information. The statistical models for commercial loans are generally updated annually and utilize our historical database of actual defaults and other data, including external default data. The loan risk ratings and composition of the commercial portfolios used to calculate the allowance are updated quarterly to incorporate the most recent data reflecting the current economic environment. For risk-rated commercial loans, we estimate the probability of default and the loss given default (LGD) based on our historical experience of defaults and credit losses. Factors considered when assessing the internal risk rating include the value of the underlying collateral, if applicable, the industry in which the obligor operates, the obligor's liquidity and other financial indicators, and other quantitative and qualitative factors relevant to the obligor's credit risk. As of December 31, 2019, the allowance for the commercial real estate portfolio increased compared to December 31, 2018.

Also included within the second component of the allowance for loan and lease losses are reserves to cover losses that are incurred but, in our assessment, may not be adequately represented in the historical loss data used in the loss forecast models. For example, factors that we consider include, among others, changes in lending policies and procedures, changes in economic and business conditions, changes in the nature and size of the portfolio, changes in portfolio concentrations, changes in the volume and severity of past due loans and nonaccrual loans, the effect of external factors such as competition, and legal and regulatory requirements. Further, we consider the inherent uncertainty in mathematical models that are built upon historical data.

We monitor differences between estimated and actual incurred loan and lease losses. This monitoring process includes periodic assessments by senior management of loan and lease portfolios and the models used to estimate incurred losses in those portfolios.

The allowance for loan and lease losses for the consumer portfolio, as presented in Table 43, was \$4.5 billion at December 31, 2019, a decrease of \$260 million from December 31, 2018. The decrease was primarily in the consumer real estate portfolio, partially offset by an increase in the credit card portfolio. The

reduction in the allowance for the consumer real estate portfolio was driven by improved credit quality, a decrease in loan balances in our non-core portfolio, proactive credit risk management initiatives and high credit quality originations. The improved credit quality was impacted by continuing improvements in the U.S. economy and strong labor markets evidenced by low levels of unemployment and increases in home prices. Nonperforming consumer loans decreased \$1.8 billion during 2019 as loan sales, returns to performing status and paydowns continued to outpace additions. The increase in allowance for the credit card portfolio was primarily driven by continued portfolio seasoning.

The allowance for loan and lease losses for the commercial portfolio, as presented in Table 43, was \$4.9 billion at December 31, 2019, an increase of \$75 million from December 31, 2018. Commercial reservable criticized utilized exposure increased to \$11.5 billion at December 31, 2019 from \$11.1 billion (to 2.09 percent from 2.08 percent of total commercial reservable utilized exposure) at December 31, 2018, and nonperforming commercial loans increased to \$1.5 billion at December 31, 2019 from \$1.1 billion (to 0.29 percent from 0.22 percent of outstanding commercial loans excluding loans accounted for under the fair value option) at December 31, 2018 with the increases spread across multiple industries. See Tables 32, 33 and 34 for more details on key commercial credit statistics.

The allowance for loan and lease losses as a percentage of total loans and leases outstanding was 0.97 percent at December 31, 2019 compared to 1.02 percent at December 31, 2018.

On January 1, 2020, the Corporation adopted the new accounting standard that requires the measurement of the allowance for credit losses to be based on management's best estimate of lifetime expected credit losses inherent in the

Corporation's relevant financial assets. Upon adoption of the standard on January 1, 2020, the Corporation recorded a \$3.3 billion, or 32 percent, increase to the allowance for credit losses. After adjusting for deferred taxes and other adoption effects, a \$2.4 billion decrease was recorded in retained earnings through a cumulative-effect adjustment. For more information regarding this new accounting standard, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements.

Reserve for Unfunded Lending Commitments

In addition to the allowance for loan and lease losses, we also estimate probable losses related to unfunded lending commitments such as letters of credit, financial guarantees, unfunded bankers' acceptances and binding loan commitments, excluding commitments accounted for under the fair value option. Unfunded lending commitments are subject to the same assessment as funded loans, including estimates of probability of default and LGD. Due to the nature of unfunded commitments, the estimate of probable losses must also consider utilization. To estimate the portion of these undrawn commitments that is likely to be drawn by a borrower at the time of estimated default, analyses of our historical experience are applied to the unfunded commitments to estimate the funded exposure at default (EAD). The expected loss for unfunded lending commitments is the product of the probability of default, the LGD and the EAD, adjusted for any qualitative factors including economic uncertainty and inherent imprecision in models.

The reserve for unfunded lending commitments was \$813 million at December 31, 2019 compared to \$797 million at December 31, 2018.

Table 43 Allocation of the Allowance for Credit Losses by Product Type

			Percent of Loans and Leases Outstanding (1)			Percent of Loans and Leases Outstanding (1)
	Amount	Percent of Total	Percent of Loans and Leases Outstanding (1)	Amount	Percent of Total	Percent of Loans and Leases Outstanding (1)
(Dollars in millions)	December 31, 2019			December 31, 2018		
Allowance for loan and lease losses						
Residential mortgage	\$ 325	3.45 %	0.14 %	\$ 422	4.40 %	0.20 %
Home equity	221	2.35	0.55	506	5.27	1.05
Credit card	3,710	39.39	3.80	3,597	37.47	3.66
Direct/Indirect consumer	234	2.49	0.26	248	2.58	0.27
Other consumer	52	0.55	n/m	29	0.30	n/m
Total consumer	4,542	48.23	0.98	4,802	50.02	1.08
U.S. commercial (2)	3,015	32.02	0.94	3,010	31.35	0.96
Non-U.S. commercial	658	6.99	0.63	677	7.05	0.69
Commercial real estate	1,042	11.07	1.66	958	9.98	1.57
Commercial lease financing	159	1.69	0.80	154	1.60	0.68
Total commercial	4,874	51.77	0.96	4,799	49.98	0.97
Allowance for loan and lease losses	9,416	100.00 %	0.97	9,601	100.00 %	1.02
Reserve for unfunded lending commitments	813			797		
Allowance for credit losses	\$ 10,229			\$ 10,398		

(1) Ratios are calculated as allowance for loan and lease losses as a percentage of loans and leases outstanding excluding loans accounted for under the fair value option. Consumer loans accounted for under the fair value option include residential mortgage loans of \$257 million and \$336 million and home equity loans of \$337 million and \$346 million at December 31, 2019 and 2018. Commercial loans accounted for under the fair value option include U.S. commercial loans of \$4.7 billion and \$2.5 billion and non-U.S. commercial loans of \$3.1 billion and \$1.1 billion at December 31, 2019 and 2018.

(2) Includes allowance for loan and lease losses for U.S. small business commercial loans of \$523 million and \$474 million at December 31, 2019 and 2018.

n/m = not meaningful

Table 44 presents a rollforward of the allowance for credit losses, which includes the allowance for loan and lease losses and the reserve for unfunded lending commitments, for 2019 and 2018.

Table 44 Allowance for Credit Losses

(Dollars in millions)

	2019	2018
Allowance for loan and lease losses, January 1	\$ 9,601	\$ 10,393
Loans and leases charged off		
Residential mortgage	(93)	(207)
Home equity	(429)	(483)
Credit card	(3,535)	(3,345)
Direct/Indirect consumer	(518)	(495)
Other consumer	(249)	(197)
Total consumer charge-offs	(4,824)	(4,727)
U.S. commercial (1)	(650)	(575)
Non-U.S. commercial	(115)	(82)
Commercial real estate	(31)	(10)
Commercial lease financing	(26)	(8)
Total commercial charge-offs	(822)	(675)
Total loans and leases charged off	(5,646)	(5,402)
Recoveries of loans and leases previously charged off		
Residential mortgage	140	179
Home equity	787	485
Credit card	587	508
Direct/Indirect consumer	309	300
Other consumer	15	15
Total consumer recoveries	1,838	1,487
U.S. commercial (2)	122	120
Non-U.S. commercial	31	14
Commercial real estate	2	9
Commercial lease financing	5	9
Total commercial recoveries	160	152
Total recoveries of loans and leases previously charged off	1,998	1,639
Net charge-offs	(3,648)	(3,763)
Provision for loan and lease losses	3,574	3,262
Other (3)	(111)	(291)
Allowance for loan and lease losses, December 31	9,416	9,601
Reserve for unfunded lending commitments, January 1	797	777
Provision for unfunded lending commitments	16	20
Reserve for unfunded lending commitments, December 31	813	797
Allowance for credit losses, December 31	\$ 10,229	\$ 10,398

Loan and allowance ratios:

Loans and leases outstanding at December 31 (4)	\$ 975,091	\$ 942,546
Allowance for loan and lease losses as a percentage of total loans and leases outstanding at December 31 (4)	0.97 %	1.02 %
Consumer allowance for loan and lease losses as a percentage of total consumer loans and leases outstanding at December 31 (5)	0.98	1.08
Commercial allowance for loan and lease losses as a percentage of total commercial loans and leases outstanding at December 31 (6)	0.96	0.97
Average loans and leases outstanding (4)	\$ 951,583	\$ 927,531
Net charge-offs as a percentage of average loans and leases outstanding (4)	0.38 %	0.41 %
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases at December 31	265	194
Ratio of the allowance for loan and lease losses at December 31 to net charge-offs	2.58	2.55
Amounts included in allowance for loan and lease losses for loans and leases that are excluded from nonperforming loans and leases at December 31 (7)	\$ 4,151	\$ 4,031
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases, excluding the allowance for loan and lease losses for loans and leases that are excluded from nonperforming loans and leases at December 31 (7)	148 %	113 %

(1) Includes U.S. small business commercial charge-offs of \$320 million and \$287 million in 2019 and 2018.

(2) Includes U.S. small business commercial recoveries of \$48 million and \$47 million in 2019 and 2018.

(3) Primarily represents write-offs of purchased credit-impaired (PCI) loans, the net impact of portfolio sales, and transfers to loans held-for-sale.

(4) Outstanding loan and lease balances and ratios do not include loans accounted for under the fair value option of \$8.3 billion and \$4.3 billion at December 31, 2019 and 2018. Average loans accounted for under the fair value option were \$6.8 billion and \$5.5 billion in 2019 and 2018.

(5) Excludes consumer loans accounted for under the fair value option of \$594 million and \$682 million at December 31, 2019 and 2018.

(6) Excludes commercial loans accounted for under the fair value option of \$7.7 billion and \$3.7 billion at December 31, 2019 and 2018.

(7) Primarily includes amounts allocated to credit card and unsecured consumer lending portfolios in *Consumer Banking*.

Market Risk Management

Market risk is the risk that changes in market conditions may adversely impact the value of assets or liabilities, or otherwise negatively impact earnings. This risk is inherent in the financial instruments associated with our operations, primarily within our *Global Markets* segment. We are also exposed to these risks in other areas of the Corporation (e.g., our ALM activities). In the event of market stress, these risks could have a material impact on our results. For more information, see Interest Rate Risk Management for the Banking Book on page 74.

Our traditional banking loan and deposit products are non-trading positions and are generally reported at amortized cost for assets or the amount owed for liabilities (historical cost). However, these positions are still subject to changes in economic value based on varying market conditions, with one of the primary risks being changes in the levels of interest rates. The risk of adverse changes in the economic value of our non-trading positions arising from changes in interest rates is managed through our ALM activities. We have elected to account for certain assets and liabilities under the fair value option.

Our trading positions are reported at fair value with changes reflected in income. Trading positions are subject to various changes in market-based risk factors. The majority of this risk is generated by our activities in the interest rate, foreign exchange, credit, equity and commodities markets. In addition, the values of assets and liabilities could change due to market liquidity, correlations across markets and expectations of market volatility. We seek to manage these risk exposures by using a variety of techniques that encompass a broad range of financial instruments. The key risk management techniques are discussed in more detail in the Trading Risk Management section.

Global Risk Management is responsible for providing senior management with a clear and comprehensive understanding of the trading risks to which we are exposed. These responsibilities include ownership of market risk policy, developing and maintaining quantitative risk models, calculating aggregated risk measures, establishing and monitoring position limits consistent with risk appetite, conducting daily reviews and analysis of trading inventory, approving material risk exposures and fulfilling regulatory requirements. Market risks that impact businesses outside of *Global Markets* are monitored and governed by their respective governance functions.

Model risk is the potential for adverse consequences from decisions based on incorrect or misused model outputs and reports. Given that models are used across the Corporation, model risk impacts all risk types including credit, market and operational risk. The Enterprise Model Risk Committee (EMRC), a subcommittee of the MRC, is responsible for providing management oversight and approval of model risk management and governance. The EMRC defines model risk standards, consistent with the Corporation's Risk Framework and risk appetite, prevailing regulatory guidance and industry best practice. All models, including risk management, valuation and regulatory capital models, must meet certain validation criteria, including effective challenge of the conceptual soundness of the model, independent model testing and ongoing monitoring through outcomes analysis and benchmarking. The EMRC oversees that model standards are consistent with model risk requirements and monitors the effective challenge in the model validation process across the Corporation.

Interest Rate Risk

Interest rate risk represents exposures to instruments whose values vary with the level or volatility of interest rates. These instruments include, but are not limited to, loans, debt securities,

certain trading-related assets and liabilities, deposits, borrowings and derivatives. Hedging instruments used to mitigate these risks include derivatives such as options, futures, forwards and swaps.

Foreign Exchange Risk

Foreign exchange risk represents exposures to changes in the values of current holdings and future cash flows denominated in currencies other than the U.S. dollar. The types of instruments exposed to this risk include investments in non-U.S. subsidiaries, foreign currency-denominated loans and securities, future cash flows in foreign currencies arising from foreign exchange transactions, foreign currency-denominated debt and various foreign exchange derivatives whose values fluctuate with changes in the level or volatility of currency exchange rates or non-U.S. interest rates. Hedging instruments used to mitigate this risk include foreign exchange options, currency swaps, futures, forwards, and foreign currency-denominated debt and deposits.

Mortgage Risk

Mortgage risk represents exposures to changes in the values of mortgage-related instruments. The values of these instruments are sensitive to prepayment rates, mortgage rates, agency debt ratings, default, market liquidity, government participation and interest rate volatility. Our exposure to these instruments takes several forms. For example, we trade and engage in market-making activities in a variety of mortgage securities including whole loans, pass-through certificates, commercial mortgages and collateralized mortgage obligations including collateralized debt obligations using mortgages as underlying collateral. In addition, we originate a variety of MBS, which involves the accumulation of mortgage-related loans in anticipation of eventual securitization, and we may hold positions in mortgage securities and residential mortgage loans as part of the ALM portfolio. We also record MSRs as part of our mortgage origination activities. Hedging instruments used to mitigate this risk include derivatives such as options, swaps, futures and forwards as well as securities including MBS and U.S. Treasury securities. For more information, see Mortgage Banking Risk Management on page 76.

Equity Market Risk

Equity market risk represents exposures to securities that represent an ownership interest in a corporation in the form of domestic and foreign common stock or other equity-linked instruments. Instruments that would lead to this exposure include, but are not limited to, the following: common stock, exchange-traded funds, American Depositary Receipts, convertible bonds, listed equity options (puts and calls), OTC equity options, equity total return swaps, equity index futures and other equity derivative products. Hedging instruments used to mitigate this risk include options, futures, swaps, convertible bonds and cash positions.

Commodity Risk

Commodity risk represents exposures to instruments traded in the petroleum, natural gas, power and metals markets. These instruments consist primarily of futures, forwards, swaps and options. Hedging instruments used to mitigate this risk include options, futures and swaps in the same or similar commodity product, as well as cash positions.

Issuer Credit Risk

Issuer credit risk represents exposures to changes in the creditworthiness of individual issuers or groups of issuers. Our portfolio is exposed to issuer credit risk where the value of an asset may be adversely impacted by changes in the levels of credit spreads, by credit migration or by defaults. Hedging instruments

used to mitigate this risk include bonds, CDS and other credit fixed-income instruments.

Market Liquidity Risk

Market liquidity risk represents the risk that the level of expected market activity changes dramatically and, in certain cases, may even cease. This exposes us to the risk that we will not be able to transact business and execute trades in an orderly manner which may impact our results. This impact could be further exacerbated if expected hedging or pricing correlations are compromised by disproportionate demand or lack of demand for certain instruments. We utilize various risk mitigating techniques as discussed in more detail in Trading Risk Management.

Trading Risk Management

To evaluate risks in our trading activities, we focus on the actual and potential volatility of revenues generated by individual positions as well as portfolios of positions. Various techniques and procedures are utilized to enable the most complete understanding of these risks. Quantitative measures of market risk are evaluated on a daily basis from a single position to the portfolio of the Corporation. These measures include sensitivities of positions to various market risk factors, such as the potential impact on revenue from a one basis point change in interest rates, and statistical measures utilizing both actual and hypothetical market moves, such as VaR and stress testing. Periods of extreme market stress influence the reliability of these techniques to varying degrees. Qualitative evaluations of market risk utilize the suite of quantitative risk measures while understanding each of their respective limitations. Additionally, risk managers independently evaluate the risk of the portfolios under the current market environment and potential future environments.

VaR is a common statistic used to measure market risk as it allows the aggregation of market risk factors, including the effects of portfolio diversification. A VaR model simulates the value of a portfolio under a range of scenarios in order to generate a distribution of potential gains and losses. VaR represents the loss a portfolio is not expected to exceed more than a certain number of times per period, based on a specified holding period, confidence level and window of historical data. We use one VaR model consistently across the trading portfolios and it uses a historical simulation approach based on a three-year window of historical data. Our primary VaR statistic is equivalent to a 99 percent confidence level, which means that for a VaR with a one-day holding period, there should not be losses in excess of VaR, on average, 99 out of 100 trading days.

Within any VaR model, there are significant and numerous assumptions that will differ from company to company. The accuracy of a VaR model depends on the availability and quality of historical data for each of the risk factors in the portfolio. A VaR model may require additional modeling assumptions for new products that do not have the necessary historical market data or for less liquid positions for which accurate daily prices are not consistently available. For positions with insufficient historical data for the VaR calculation, the process for establishing an appropriate proxy is based on fundamental and statistical analysis of the new product or less liquid position. This analysis identifies reasonable alternatives that replicate both the expected volatility and correlation to other market risk factors that the missing data would be expected to experience.

VaR may not be indicative of realized revenue volatility as changes in market conditions or in the composition of the portfolio can have a material impact on the results. In particular, the historical data used for the VaR calculation might indicate higher or lower levels of portfolio diversification than will be experienced.

In order for the VaR model to reflect current market conditions, we update the historical data underlying our VaR model on a weekly basis, or more frequently during periods of market stress, and regularly review the assumptions underlying the model. A minor portion of risks related to our trading positions is not included in VaR. These risks are reviewed as part of our ICAAP. For more information regarding ICAAP, see Capital Management on page 45.

Global Risk Management continually reviews, evaluates and enhances our VaR model so that it reflects the material risks in our trading portfolio. Changes to the VaR model are reviewed and approved prior to implementation and any material changes are reported to management through the appropriate management committees.

Trading limits on quantitative risk measures, including VaR, are independently set by Global Markets Risk Management and reviewed on a regular basis so that trading limits remain relevant and within our overall risk appetite for market risks. Trading limits are reviewed in the context of market liquidity, volatility and strategic business priorities. Trading limits are set at both a granular level to allow for extensive coverage of risks as well as at aggregated portfolios to account for correlations among risk factors. All trading limits are approved at least annually. Approved trading limits are stored and tracked in a centralized limits management system. Trading limit excesses are communicated to management for review. Certain quantitative market risk measures and corresponding limits have been identified as critical in the Corporation's Risk Appetite Statement. These risk appetite limits are reported on a daily basis and are approved at least annually by the ERC and the Board.

In periods of market stress, *Global Markets* senior leadership communicates daily to discuss losses, key risk positions and any limit excesses. As a result of this process, the businesses may selectively reduce risk.

Table 45 presents the total market-based portfolio VaR which is the combination of the total covered positions (and less liquid trading positions) portfolio and the fair value option portfolio. Covered positions are defined by regulatory standards as trading assets and liabilities, both on- and off-balance sheet, that meet a defined set of specifications. These specifications identify the most liquid trading positions which are intended to be held for a short-term horizon and where we are able to hedge the material risk elements in a two-way market. Positions in less liquid markets, or where there are restrictions on the ability to trade the positions, typically do not qualify as covered positions. Foreign exchange and commodity positions are always considered covered positions, except for structural foreign currency positions that are excluded with prior regulatory approval. In addition, Table 45 presents our fair value option portfolio, which includes substantially all of the funded and unfunded exposures for which we elect the fair value option, and their corresponding hedges. Additionally, market risk VaR for trading activities as presented in Table 45 differs from VaR used for regulatory capital calculations due to the holding period being used. The holding period for VaR used for regulatory capital calculations is 10 days, while for the market risk VaR presented below, it is one day. Both measures utilize the same process and methodology.

The total market-based portfolio VaR results in Table 45 include market risk to which we are exposed from all business segments, excluding credit valuation adjustment (CVA), DVA and related hedges. The majority of this portfolio is within the *Global Markets* segment.

Table 45 presents year-end, average, high and low daily trading VaR for 2019 and 2018 using a 99 percent confidence level. The amounts disclosed in Table 45 and Table 46 align to the view of covered positions used in the Basel 3 capital calculations. Foreign

exchange and commodity positions are always considered covered positions, regardless of trading or banking treatment for the trade, except for structural foreign currency positions that are excluded with prior regulatory approval.

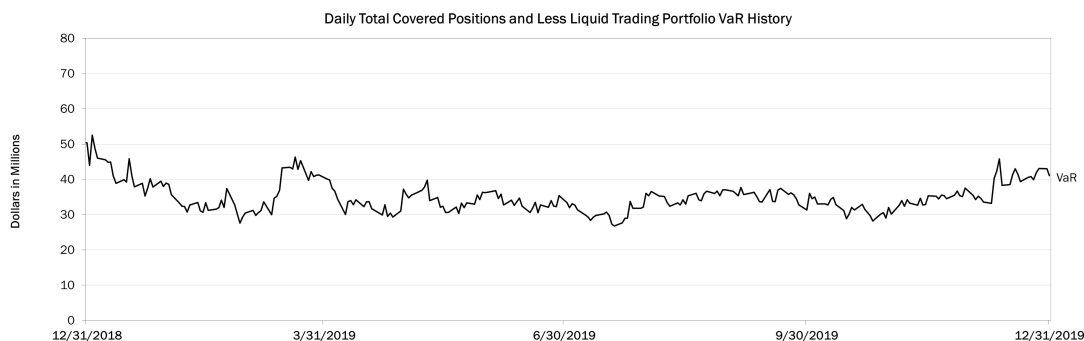
The annual average of total covered positions and less liquid trading positions portfolio VaR slightly increased during 2019 with no significant drivers.

Table 45 Market Risk VaR for Trading Activities

(Dollars in millions)	2019				2018			
	Year End	Average	High (1)	Low (1)	Year End	Average	High (1)	Low (1)
Foreign exchange	\$ 4	\$ 6	\$ 13	\$ 2	\$ 9	\$ 8	\$ 15	\$ 2
Interest rate	25	24	49	14	36	25	45	15
Credit	26	23	32	16	26	25	31	20
Equity	29	22	33	14	20	20	40	11
Commodities	4	6	31	4	13	8	15	3
Portfolio diversification	(47)	(49)	—	—	(59)	(55)	—	—
Total covered positions portfolio	41	32	47	24	45	31	45	20
Impact from less liquid exposures	—	3	—	—	5	3	—	—
Total covered positions and less liquid trading positions portfolio	41	35	53	27	50	34	51	23
Fair value option loans	8	10	13	7	8	11	18	8
Fair value option hedges	10	10	17	4	5	9	17	4
Fair value option portfolio diversification	(9)	(10)	—	—	(7)	(11)	—	—
Total fair value option portfolio	9	10	16	5	6	9	16	5
Portfolio diversification	(5)	(7)	—	—	(3)	(5)	—	—
Total market-based portfolio	\$ 45	\$ 38	56	28	\$ 53	\$ 38	57	26

(1) The high and low for each portfolio may have occurred on different trading days than the high and low for the components. Therefore the impact from less liquid exposures and the amount of portfolio diversification, which is the difference between the total portfolio and the sum of the individual components, is not relevant.

The graph below presents the daily covered positions and less liquid trading positions portfolio VaR for 2019, corresponding to the data in Table 45.



Additional VaR statistics produced within our single VaR model are provided in Table 46 at the same level of detail as in Table 45. Evaluating VaR with additional statistics allows for an increased understanding of the risks in the portfolio as the historical market data used in the VaR calculation does not necessarily follow a predefined statistical distribution. Table 46 presents average trading VaR statistics at 99 percent and 95 percent confidence levels for 2019 and 2018.

Table 46 Average Market Risk VaR for Trading Activities – 99 percent and 95 percent VaR Statistics

(Dollars in millions)	2019		2018	
	99 percent	95 percent	99 percent	95 percent
Foreign exchange	\$ 6	\$ 3	\$ 8	\$ 5
Interest rate	24	15	25	16
Credit	23	15	25	15
Equity	22	11	20	11
Commodities	6	3	8	4
Portfolio diversification	(49)	(29)	(55)	(33)
Total covered positions portfolio	32	18	31	18
Impact from less liquid exposures	3	2	3	1
Total covered positions and less liquid trading positions portfolio	35	20	34	19
Fair value option loans	10	5	11	6
Fair value option hedges	10	6	9	6
Fair value option portfolio diversification	(10)	(5)	(11)	(7)
Total fair value option portfolio	10	6	9	5
Portfolio diversification	(7)	(5)	(5)	(3)
Total market-based portfolio	\$ 38	\$ 21	\$ 38	\$ 21

Backtesting

The accuracy of the VaR methodology is evaluated by backtesting, which compares the daily VaR results, utilizing a one-day holding period, against a comparable subset of trading revenue. A backtesting excess occurs when a trading loss exceeds the VaR for the corresponding day. These excesses are evaluated to understand the positions and market moves that produced the trading loss with a goal to ensure that the VaR methodology accurately represents those losses. We expect the frequency of trading losses in excess of VaR to be in line with the confidence level of the VaR statistic being tested. For example, with a 99 percent confidence level, we expect one trading loss in excess of VaR every 100 days or between two to three trading losses in excess of VaR over the course of a year. The number of backtesting excesses observed can differ from the statistically expected number of excesses if the current level of market volatility is materially different than the level of market volatility that existed during the three years of historical data used in the VaR calculation.

The trading revenue used for backtesting is defined by regulatory agencies in order to most closely align with the VaR component of the regulatory capital calculation. This revenue differs from total trading-related revenue in that it excludes revenue from trading activities that either do not generate market risk or the market risk cannot be included in VaR. Some examples of the types of revenue excluded for backtesting are fees, commissions, reserves, net interest income and intra-day trading revenues.

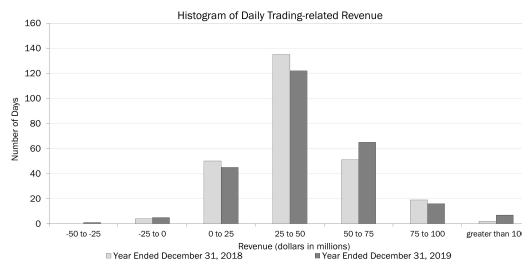
We conduct daily backtesting on the VaR results used for regulatory capital calculations as well as the VaR results for key legal entities, regions and risk factors. These results are reported to senior market risk management. Senior management regularly reviews and evaluates the results of these tests.

During 2019, there were no days in which there was a backtesting excess for our total covered portfolio VaR, utilizing a one-day holding period.

Total Trading-related Revenue

Total trading-related revenue, excluding brokerage fees, and CVA, DVA and funding valuation adjustment gains (losses), represents the total amount earned from trading positions, including market-based net interest income, which are taken in a diverse range of financial instruments and markets. Trading account assets and liabilities are reported at fair value. For more information on fair value, see *Note 21 – Fair Value Measurements* to the Consolidated Financial Statements. Trading-related revenue can be volatile and is largely driven by general market conditions and customer demand. Also, trading-related revenue is dependent on the volume and type of transactions, the level of risk assumed, and the volatility of price and rate movements at any given time within the ever-changing market environment. Significant daily revenue by business is monitored and the primary drivers of these are reviewed.

The following histogram is a graphic depiction of trading volatility and illustrates the daily level of trading-related revenue for 2019 and 2018. During 2019, positive trading-related revenue was recorded for 98 percent of the trading days, of which 80 percent were daily trading gains of over \$25 million, and the largest loss was \$35 million. This compares to 2018 where positive trading-related revenue was recorded for 98 percent of the trading days, of which 79 percent were daily trading gains of over \$25 million.



Trading Portfolio Stress Testing

Because the very nature of a VaR model suggests results can exceed our estimates and it is dependent on a limited historical window, we also stress test our portfolio using scenario analysis. This analysis estimates the change in the value of our trading portfolio that may result from abnormal market movements.

A set of scenarios, categorized as either historical or hypothetical, are computed daily for the overall trading portfolio and individual businesses. These scenarios include shocks to underlying market risk factors that may be well beyond the shocks found in the historical data used to calculate VaR. Historical scenarios simulate the impact of the market moves that occurred during a period of extended historical market stress. Generally, a multi-week period representing the most severe point during a crisis is selected for each historical scenario. Hypothetical scenarios provide estimated portfolio impacts from potential future market stress events. Scenarios are reviewed and updated in response to changing positions and new economic or political information. In addition, new or ad hoc scenarios are developed to address specific potential market events or particular vulnerabilities in the portfolio. The stress tests are reviewed on a regular basis and the results are presented to senior management.

Stress testing for the trading portfolio is integrated with enterprise-wide stress testing and incorporated into the limits framework. The macroeconomic scenarios used for enterprise-wide stress testing purposes differ from the typical trading portfolio scenarios in that they have a longer time horizon and the results are forecasted over multiple periods for use in consolidated capital and liquidity planning. For more information, see *Managing Risk* on page 42.

Interest Rate Risk Management for the Banking Book

The following discussion presents net interest income for banking book activities.

Interest rate risk represents the most significant market risk exposure to our banking book balance sheet. Interest rate risk is measured as the potential change in net interest income caused by movements in market interest rates. Client-facing activities, primarily lending and deposit-taking, create interest rate sensitive positions on our balance sheet.

We prepare forward-looking forecasts of net interest income. The baseline forecast takes into consideration expected future business growth, ALM positioning and the direction of interest rate movements as implied by the market-based forward curve. We then measure and evaluate the impact that alternative interest rate scenarios have on the baseline forecast in order to assess interest rate sensitivity under varied conditions. The net interest income forecast is frequently updated for changing assumptions and differing outlooks based on economic trends, market conditions and business strategies. Thus, we continually monitor

our balance sheet position in order to maintain an acceptable level of exposure to interest rate changes.

The interest rate scenarios that we analyze incorporate balance sheet assumptions such as loan and deposit growth and pricing, changes in funding mix, product repricing, maturity characteristics and investment securities premium amortization. Our overall goal is to manage interest rate risk so that movements in interest rates do not significantly adversely affect earnings and capital.

Table 47 presents the spot and 12-month forward rates used in our baseline forecasts at December 31, 2019 and 2018.

Table 47 Forward Rates

	December 31, 2019		
	Federal Funds	Three-month LIBOR	10-Year Swap
Spot rates	1.75 %	1.91 %	1.90 %
12-month forward rates	1.50	1.62	1.92
December 31, 2018			
Spot rates	2.50 %	2.81 %	2.71 %
12-month forward rates	2.50	2.64	2.75

Table 48 shows the pretax impact to forecasted net interest income over the next 12 months from December 31, 2019 and 2018, resulting from instantaneous parallel and non-parallel shocks to the market-based forward curve. Periodically we evaluate the scenarios presented so that they are meaningful in the context of the current rate environment.

During 2019, the asset sensitivity of our balance sheet increased primarily due to decreases in interest rates. We continue to be asset sensitive to a parallel move in interest rates with the majority of that impact coming from the short end of the yield curve. Additionally, higher interest rates impact the fair value of debt securities and, accordingly, for debt securities classified as available for sale (AFS), may adversely affect accumulated other comprehensive income (OCI) and thus capital levels under the Basel 3 capital rules. Under instantaneous upward parallel shifts, the near-term adverse impact to Basel 3 capital is reduced over time by offsetting positive impacts to net interest income. For more information on Basel 3, see Capital Management – Regulatory Capital on page 46.

Table 48 Estimated Banking Book Net Interest Income Sensitivity to Curve Changes

	Short	Long	December 31	
(Dollars in millions)	Rate (bps)	Rate (bps)	2019	2018
Parallel Shifts				
+100 bps instantaneous shift	+100	+100	\$ 4,190	\$ 2,833
-100 bps instantaneous shift	-100	-100	(6,536)	(4,280)
Flatteners				
Short-end instantaneous change	+100	—	2,641	2,158
Long-end instantaneous change	—	-100	(2,965)	(1,618)
Steepeners				
Short-end instantaneous change	-100	—	(3,527)	(2,648)
Long-end instantaneous change	—	+100	1,561	675

The sensitivity analysis in Table 48 assumes that we take no action in response to these rate shocks and does not assume any change in other macroeconomic variables normally correlated with

changes in interest rates. As part of our ALM activities, we use securities, certain residential mortgages, and interest rate and foreign exchange derivatives in managing interest rate sensitivity.

The behavior of our deposits portfolio in the baseline forecast and in alternate interest rate scenarios is a key assumption in our projected estimates of net interest income. The sensitivity analysis in Table 48 assumes no change in deposit portfolio size or mix from the baseline forecast in alternate rate environments. In higher rate scenarios, any customer activity resulting in the replacement of low-cost or noninterest-bearing deposits with higher yielding deposits or market-based funding would reduce our benefit in those scenarios.

Interest Rate and Foreign Exchange Derivative Contracts

Interest rate and foreign exchange derivative contracts are utilized in our ALM activities and serve as an efficient tool to manage our interest rate and foreign exchange risk. We use derivatives to hedge the variability in cash flows or changes in fair value on our balance sheet due to interest rate and foreign exchange components. For more information on our hedging activities, see *Note 3 – Derivatives* to the Consolidated Financial Statements.

Our interest rate contracts are generally non-leveraged generic interest rate and foreign exchange basis swaps, options, futures and forwards. In addition, we use foreign exchange contracts, including cross-currency interest rate swaps, foreign currency futures contracts, foreign currency forward contracts and options to mitigate the foreign exchange risk associated with foreign currency-denominated assets and liabilities.

Changes to the composition of our derivatives portfolio during 2019 reflect actions taken for interest rate and foreign exchange rate risk management. The decisions to reposition our derivatives portfolio are based on the current assessment of economic and financial conditions including the interest rate and foreign currency environments, balance sheet composition and trends, and the relative mix of our cash and derivative positions.

We use interest rate derivative instruments to hedge the variability in the cash flows of our assets and liabilities and other forecasted transactions (collectively referred to as cash flow hedges). The net losses on both open and terminated cash flow hedge derivative instruments recorded in accumulated OCI were \$496 million and \$1.3 billion, on a pretax basis, at December 31, 2019 and 2018. These net losses are expected to be reclassified into earnings in the same period as the hedged cash flows affect earnings and will decrease income or increase expense on the respective hedged cash flows. Assuming no change in open cash flow derivative hedge positions and no changes in prices or interest rates beyond what is implied in forward yield curves at December 31, 2019, the pretax net losses are expected to be reclassified into earnings as follows: 17 percent within the next year, 44 percent in years two through five, 22 percent in years six through ten, with the remaining 17 percent thereafter. For more information on derivatives designated as cash flow hedges, see *Note 3 – Derivatives* to the Consolidated Financial Statements.

We hedge our net investment in non-U.S. operations determined to have functional currencies other than the U.S. dollar using forward foreign exchange contracts that typically settle in less than 180 days, cross-currency basis swaps and foreign exchange options. We recorded net after-tax losses on derivatives in accumulated OCI associated with net investment hedges which were offset by gains on our net investments in consolidated non-U.S. entities at December 31, 2019.

Table 49 presents derivatives utilized in our ALM activities and shows the notional amount, fair value, weighted-average receive-fixed and pay-fixed rates, expected maturity and average estimated

durations of our open ALM derivatives at December 31, 2019 and 2018. These amounts do not include derivative hedges on our MSRs. During 2019, the fair value of receive-fixed interest rate

swaps increased while pay-fixed interest rate swaps decreased, driven by lower swap rates.

Table 49 Asset and Liability Management Interest Rate and Foreign Exchange Contracts

	December 31, 2019								
	Expected Maturity								
(Dollars in millions, average estimated duration in years)	Fair Value	Total	2020	2021	2022	2023	2024	Thereafter	Average Estimated Duration
Receive-fixed interest rate swaps (1)	\$ 12,370								6.47
Notional amount		\$ 215,123	\$ 16,347	\$ 14,642	\$ 21,616	\$ 36,356	\$ 21,257	\$ 104,905	
Weighted-average fixed-rate		2.68 %	2.68 %	3.17 %	2.48 %	2.36 %	2.55 %	2.79 %	
Pay-fixed interest rate swaps (1)	(2,669)								6.99
Notional amount		\$ 69,586	\$ 4,344	\$ 2,117	\$ —	\$ 13,993	\$ 8,194	\$ 40,938	
Weighted-average fixed-rate		2.36 %	2.16 %	2.15 %	—%	2.52 %	2.26 %	2.35 %	
Same-currency basis swaps (2)	(290)								
Notional amount		\$ 152,160	\$ 18,857	\$ 18,590	\$ 4,306	\$ 2,017	\$ 14,567	\$ 93,823	
Foreign exchange basis swaps (1, 3, 4)	(1,258)								
Notional amount		113,529	23,639	24,215	14,611	7,111	3,521	40,432	
Foreign exchange contracts (1, 4, 5)	414								
Notional amount (6)		(53,106)	(79,315)	4,539	2,674	2,340	4,432	12,224	
Option products	—								
Notional amount		15	—	—	—	15	—	—	
Net ALM contracts	\$ 8,567								

	December 31, 2018								
		Expected Maturity							
(Dollars in millions, average estimated duration in years)	Fair Value	Total	2019	2020	2021	2022	2023	Thereafter	Average Estimated Duration
Receive-fixed interest rate swaps (1)	\$ 2,128								5.17
Notional amount		\$ 198,914	\$ 27,176	\$ 16,347	\$ 14,640	\$ 19,866	\$ 36,215	\$ 84,670	
Weighted-average fixed-rate		2.66 %	1.87 %	2.68 %	3.17 %	2.56 %	2.37 %	2.97 %	
Pay-fixed interest rate swaps (1)	295								6.30
Notional amount		\$ 49,275	\$ 1,210	\$ 4,344	\$ 1,616	\$ —	\$ 10,801	\$ 31,304	
Weighted-average fixed-rate		2.50 %	2.07 %	2.16 %	2.22 %	—%	2.59 %	2.55 %	
Same-currency basis swaps (2)	21								
Notional amount		\$ 101,203	\$ 7,628	\$ 15,097	\$ 15,493	\$ 2,586	\$ 2,017	\$ 58,382	
Foreign exchange basis swaps (1, 3, 4)	(1,716)								
Notional amount		106,742	13,946	21,448	19,241	10,239	6,260	35,608	
Foreign exchange contracts (1, 4, 5)	82								
Notional amount (6)		(8,447)	(27,823)	13	4,196	2,741	2,448	9,978	
Option products	2								
Notional amount		587	572	—	—	—	15	—	
Net ALM contracts	\$ 812								

(1) Does not include basis adjustments on either fixed-rate debt issued by the Corporation or AFS debt securities, which are hedged using derivatives designated as fair value hedging instruments, that substantially offset the fair values of these derivatives.

(2) At December 31, 2019 and 2018, the notional amount of same-currency basis swaps included \$152.2 billion and \$101.2 billion in both foreign currency and U.S. dollar-denominated basis swaps in which both sides of the swap are in the same currency.

(3) Foreign exchange basis swaps consisted of cross-currency variable interest rate swaps used separately or in conjunction with receive-fixed interest rate swaps.

(4) Does not include foreign currency translation adjustments on certain non-U.S. debt issued by the Corporation that substantially offset the fair values of these derivatives.

(5) The notional amount of foreign exchange contracts of \$(53.1) billion at December 31, 2019 was comprised of \$29.0 billion in foreign currency-denominated and cross-currency receive-fixed swaps, \$(82.4) billion in net foreign currency forward rate contracts, \$(313) million in foreign currency-denominated interest rate swaps and \$644 million in net foreign currency futures contracts. Foreign exchange contracts of \$(8.4) billion at December 31, 2018 were comprised of \$25.2 billion in foreign currency-denominated and cross-currency receive-fixed swaps, \$(32.7) billion in net foreign currency forward rate contracts, \$(1.8) billion in foreign currency-denominated interest rate swaps and \$814 million in foreign currency futures contracts.

(6) Reflects the net of long and short positions. Amounts shown as negative reflect a net short position.

Mortgage Banking Risk Management

We originate, fund and service mortgage loans, which subject us to credit, liquidity and interest rate risks, among others. We determine whether loans will be held for investment or held for sale at the time of commitment and manage credit and liquidity risks by selling or securitizing a portion of the loans we originate.

Interest rate risk and market risk can be substantial in the mortgage business. Changes in interest rates and other market factors impact the volume of mortgage originations. Changes in interest rates also impact the value of interest rate lock commitments (IRLCs) and the related residential first mortgage LHFS between the date of the IRLC and the date the loans are sold to the secondary market. An increase in mortgage interest rates typically leads to a decrease in the value of these instruments. Conversely, when there is an increase in interest

rates, the value of the MSRs will increase driven by lower prepayment expectations. Because the interest rate risks of these hedged items offset, we combine them into one overall hedged item with one combined economic hedge portfolio consisting of derivative contracts and securities.

During 2019, 2018 and 2017, we recorded gains of \$291 million, \$244 million and \$118 million related to the change in fair value of the MSRs, IRLCs and LHFS, net of gains and losses on the hedge portfolio. For more information on MSRs, see *Note 21 – Fair Value Measurements* to the Consolidated Financial Statements.

Compliance and Operational Risk Management

Compliance risk is the risk of legal or regulatory sanctions, material financial loss or damage to the reputation of the Corporation arising from the failure of the Corporation to comply with the

requirements of applicable laws, rules, regulations and our internal policies and procedures (collectively, applicable laws, rules and regulations).

Operational risk is the risk of loss resulting from inadequate or failed processes, people and systems or from external events. Operational risk may occur anywhere in the Corporation, including third-party business processes, and is not limited to operations functions. Effects may extend beyond financial losses and may result in reputational risk impacts. Operational risk includes legal risk. Additionally, operational risk is a component in the calculation of total risk-weighted assets used in the Basel 3 capital calculation. For more information on Basel 3 calculations, see Capital Management on page 45.

FLUs and control functions are first and foremost responsible for managing all aspects of their businesses, including their compliance and operational risk. FLUs and control functions are required to understand their business processes and related risks and controls, including third-party dependencies, the related regulatory requirements, and monitor and report on the effectiveness of the control environment. In order to actively monitor and assess the performance of their processes and controls, they must conduct comprehensive quality assurance activities and identify issues and risks to remediate control gaps and weaknesses. FLUs and control functions must also adhere to compliance and operational risk appetite limits to meet strategic, capital and financial planning objectives. Finally, FLUs and control functions are responsible for the proactive identification, management and escalation of compliance and operational risks across the Corporation.

Global Compliance and Operational Risk teams independently assess compliance and operational risk, monitor business activities and processes, evaluate FLUs and control functions for adherence to applicable laws, rules and regulations, including identifying issues and risks, determining and developing tests to be conducted by the Enterprise Independent Testing unit, and reporting on the state of the control environment. Enterprise Independent Testing, an independent testing function within IRM, works with Global Compliance and Operational Risk, the FLUs and control functions in the identification of testing needs and test design, and is accountable for test execution, reporting and analysis of results.

Corporate Audit provides independent assessment and validation through testing of key compliance and operational risk processes and controls across the Corporation.

The Corporation's Global Compliance Enterprise Policy and Operational Risk Management - Enterprise Policy set the requirements for reporting compliance and operational risk information to executive management as well as the Board or appropriate Board-level committees in support of Global Compliance and Operational Risk's responsibilities for conducting independent oversight of our compliance and operational risk management activities. The Board provides oversight of compliance risk through its Audit Committee and the ERC, and operational risk through the ERC.

A key operational risk facing the Corporation is information security, which includes cybersecurity. Cybersecurity risk represents, among other things, exposure to failures or interruptions of service or breaches of security, including as a result of malicious technological attacks, that impact the confidentiality, availability or integrity of our, or third parties' (including their downstream service providers, the financial services industry and financial data aggregators) operations, systems or data, including sensitive corporate and customer information. The Corporation manages information security risk in accordance with internal policies which govern our

comprehensive information security program designed to protect the Corporation by enabling preventative, detective and responsive measures to combat information and cybersecurity risks. The Board and the ERC provide cybersecurity and information security risk oversight for the Corporation and our Global Information Security Team manages the day-to-day implementation of our information security program.

Reputational Risk Management

Reputational risk is the risk that negative perceptions of the Corporation's conduct or business practices may adversely impact its profitability or operations. Reputational risk may result from many of the Corporation's activities, including those related to the management of our strategic, operational, compliance and credit risks.

The Corporation manages reputational risk through established policies and controls in its businesses and risk management processes to mitigate reputational risks in a timely manner and through proactive monitoring and identification of potential reputational risk events. If reputational risk events occur, we focus on remediating the underlying issue and taking action to minimize damage to the Corporation's reputation. The Corporation has processes and procedures in place to respond to events that give rise to reputational risk, including educating individuals and organizations that influence public opinion, implementing external communication strategies to mitigate the risk, and informing key stakeholders of potential reputational risks. The Corporation's organization and governance structure provides oversight of reputational risks, and reputational risk reporting is provided regularly and directly to management and the ERC, which provides primary oversight of reputational risk. In addition, each FLU has a committee, which includes representatives from Compliance, Legal and Risk, that is responsible for the oversight of reputational risk. Such committees' oversight includes providing approval for business activities that present elevated levels of reputational risks.

Complex Accounting Estimates

Our significant accounting principles, as described in *Note 1 - Summary of Significant Accounting Principles* to the Consolidated Financial Statements, are essential in understanding the MD&A. Many of our significant accounting principles require complex judgments to estimate the values of assets and liabilities. We have procedures and processes in place to facilitate making these judgments.

The more judgmental estimates are summarized in the following discussion. We have identified and described the development of the variables most important in the estimation processes that involve mathematical models to derive the estimates. In many cases, there are numerous alternative judgments that could be used in the process of determining the inputs to the models. Where alternatives exist, we have used the factors that we believe represent the most reasonable value in developing the inputs. Actual performance that differs from our estimates of the key variables could materially impact our results of operations. Separate from the possible future impact to our results of operations from input and model variables, the value of our lending portfolio and market-sensitive assets and liabilities may change subsequent to the balance sheet date, often significantly, due to the nature and magnitude of future credit and market conditions. Such credit and market conditions may change quickly and in unforeseen ways and the resulting volatility could have a significant, negative effect on future operating results. These fluctuations would not be indicative of deficiencies in our models or inputs.

Allowance for Credit Losses

The allowance for credit losses, which includes the allowance for loan and lease losses and the reserve for unfunded lending commitments, represents management's estimate of probable incurred credit losses in the Corporation's loan and lease portfolio excluding those loans accounted for under the fair value option. The allowance for credit losses includes both quantitative and qualitative components. The qualitative component has a higher degree of management subjectivity, and includes factors such as concentrations, economic conditions and other considerations. Our process for determining the allowance for credit losses is discussed in *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements.

Our estimate for the allowance for loan and lease losses is sensitive to the loss rates and expected cash flows from our Consumer Real Estate and Credit Card and Other Consumer portfolio segments, as well as our U.S. small business commercial card portfolio within the Commercial portfolio segment. For each one-percent increase in the loss rates on loans collectively evaluated for impairment in our Consumer Real Estate portfolio segment, coupled with a one-percent decrease in the discounted cash flows on those loans individually evaluated for impairment within this portfolio segment, the allowance for loan and lease losses at December 31, 2019 would have increased \$18 million. Within our Credit Card and Other Consumer portfolio segment and U.S. small business commercial card portfolio, for each one-percent increase in the loss rates on loans collectively evaluated for impairment coupled with a one-percent decrease in the expected cash flows on those loans individually evaluated for impairment, the allowance for loan and lease losses at December 31, 2019 would have increased \$46 million.

Our allowance for loan and lease losses is sensitive to the risk ratings assigned to loans and leases within the Commercial portfolio segment (excluding the U.S. small business commercial card portfolio). Assuming a downgrade of one level in the internal risk ratings for commercial loans and leases, except loans and leases already classified as Substandard and Doubtful as defined by regulatory authorities, the allowance for loan and lease losses would have increased \$2.6 billion at December 31, 2019.

The allowance for loan and lease losses as a percentage of total loans and leases at December 31, 2019 was 0.97 percent and these hypothetical increases in the allowance would raise the ratio to 1.24 percent.

These sensitivity analyses do not represent management's expectations of the deterioration in risk ratings or the increases in loss rates but are provided as hypothetical scenarios to assess the sensitivity of the allowance for loan and lease losses to changes in key inputs. We believe the risk ratings and loss severities currently in use are appropriate and that the probability of the alternative scenarios outlined above occurring within a short period of time is remote.

The process of determining the level of the allowance for credit losses requires a high degree of judgment. It is possible that others, given the same information, may at any point in time reach different reasonable conclusions.

The processes, judgments and estimates described herein relate to the accounting standard in effect through December 31, 2019. On January 1, 2020, the Corporation adopted the new accounting standard that requires the measurement of the allowance for credit losses to be based on management's best estimate of lifetime expected credit losses inherent in the Corporation's relevant financial assets. The Corporation's lifetime expected credit losses are determined using macroeconomic forecast assumptions and management judgments applicable to and through the expected life of the loan portfolios. For more

information, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements.

Fair Value of Financial Instruments

Under applicable accounting standards, we are required to maximize the use of observable inputs and minimize the use of unobservable inputs in measuring fair value. We classify fair value measurements of financial instruments and MSRs based on the three-level fair value hierarchy in the accounting standards.

The fair values of assets and liabilities may include adjustments, such as market liquidity and credit quality, where appropriate. Valuations of products using models or other techniques are sensitive to assumptions used for the significant inputs. Where market data is available, the inputs used for valuation reflect that information as of our valuation date. Inputs to valuation models are considered unobservable if they are supported by little or no market activity. In periods of extreme volatility, lessened liquidity or in illiquid markets, there may be more variability in market pricing or a lack of market data to use in the valuation process. In keeping with the prudent application of estimates and management judgment in determining the fair value of assets and liabilities, we have in place various processes and controls that include: a model validation policy that requires review and approval of quantitative models used for deal pricing, financial statement fair value determination and risk quantification; a trading product valuation policy that requires verification of all traded product valuations; and a periodic review and substantiation of daily profit and loss reporting for all traded products. Primarily through validation controls, we utilize both broker and pricing service inputs which can and do include both market-observable and internally-modeled values and/or valuation inputs. Our reliance on this information is affected by our understanding of how the broker and/or pricing service develops its data with a higher degree of reliance applied to those that are more directly observable and lesser reliance applied to those developed through their own internal modeling. For example, broker quotes in less active markets may only be indicative and therefore less reliable. These processes and controls are performed independently of the business. For more information, see *Note 21 – Fair Value Measurements* and *Note 22 – Fair Value Option* to the Consolidated Financial Statements.

Level 3 Assets and Liabilities

Financial assets and liabilities, and MSRs, where values are based on valuation techniques that require inputs that are both unobservable and are significant to the overall fair value measurement are classified as Level 3 under the fair value hierarchy established in applicable accounting standards. The fair value of these Level 3 financial assets and liabilities and MSRs is determined using pricing models, discounted cash flow methodologies or similar techniques for which the determination of fair value requires significant management judgment or estimation.

Level 3 financial instruments may be hedged with derivatives classified as Level 1 or 2; therefore, gains or losses associated with Level 3 financial instruments may be offset by gains or losses associated with financial instruments classified in other levels of the fair value hierarchy. The Level 3 gains and losses recorded in earnings did not have a significant impact on our liquidity or capital. We conduct a review of our fair value hierarchy classifications on a quarterly basis. Transfers into or out of Level 3 are made if the significant inputs used in the financial models measuring the fair values of the assets and liabilities became unobservable or observable, respectively, in the current marketplace. For more information on transfers into and out of Level 3 during 2019, 2018

and 2017, see *Note 21 – Fair Value Measurements* to the Consolidated Financial Statements.

Accrued Income Taxes and Deferred Tax Assets

Accrued income taxes, reported as a component of either other assets or accrued expenses and other liabilities on the Consolidated Balance Sheet, represent the net amount of current income taxes we expect to pay to or receive from various taxing jurisdictions attributable to our operations to date. We currently file income tax returns in more than 100 jurisdictions and consider many factors, including statutory, judicial and regulatory guidance, in estimating the appropriate accrued income taxes for each jurisdiction.

Net deferred tax assets, reported as a component of other assets on the Consolidated Balance Sheet, represent the net decrease in taxes expected to be paid in the future because of net operating loss (NOL) and tax credit carryforwards and because of future reversals of temporary differences in the bases of assets and liabilities as measured by tax laws and their bases as reported in the financial statements. NOL and tax credit carryforwards result in reductions to future tax liabilities, and many of these attributes can expire if not utilized within certain periods. We consider the need for valuation allowances to reduce net deferred tax assets to the amounts that we estimate are more likely than not to be realized.

Consistent with the applicable accounting guidance, we monitor relevant tax authorities and change our estimates of accrued income taxes and/or net deferred tax assets due to changes in income tax laws and their interpretation by the courts and regulatory authorities. These revisions of our estimates, which also may result from our income tax planning and from the resolution of income tax audit matters, may be material to our operating results for any given period.

See *Note 20 – Income Taxes* to the Consolidated Financial Statements for a table of significant tax attributes and additional information. For more information, see page 14 under Item 1A. Risk Factors – Regulatory, Compliance and Legal

Goodwill and Intangible Assets

The nature of and accounting for goodwill and intangible assets are discussed in *Note 1 – Summary of Significant Accounting Principles* and *Note 8 – Goodwill and Intangible Assets* to the Consolidated Financial Statements.

We completed our annual goodwill impairment test as of June 30, 2019 for all of our reporting units that had goodwill. We performed that test by assessing qualitative factors to determine whether it is more likely than not that the fair value of each reporting unit is less than its respective carrying value. Factors considered in the qualitative assessments include, among other things, macroeconomic conditions, industry and market considerations, financial performance of the respective reporting unit and other relevant entity- and reporting-unit specific considerations. If based on the results of the qualitative assessment, it is more likely than not that the fair value of a reporting unit is less than its carrying value, a quantitative assessment is performed.

Based on our qualitative assessments, we determined that for each reporting unit with goodwill, it was more likely than not that its respective fair value exceeded its carrying value, indicating there was no impairment. For more information regarding goodwill balances at June 30, 2019, see *Note 8 – Goodwill and Intangible Assets* to the Consolidated Financial Statements.

Certain Contingent Liabilities

For more information on the complex judgments associated with certain contingent liabilities, see *Note 13 – Commitments and Contingencies* to the Consolidated Financial Statements.

Non-GAAP Reconciliations

Tables 50 and 51 provide reconciliations of certain non-GAAP financial measures to GAAP financial measures.

Table 50 Five-year Reconciliations to GAAP Financial Measures (1)

(Dollars in millions, shares in thousands)

	2019	2018	2017	2016	2015
Reconciliation of average shareholders' equity to average tangible shareholders' equity and average tangible common shareholders' equity					
Shareholders' equity	\$ 267,889	\$ 264,748	\$ 271,289	\$ 265,843	\$ 251,384
Goodwill	(68,951)	(68,951)	(69,286)	(69,750)	(69,772)
Intangible assets (excluding MSRs)	(1,721)	(2,058)	(2,652)	(3,382)	(4,201)
Related deferred tax liabilities	773	906	1,463	1,644	1,852
Tangible shareholders' equity	\$ 197,990	\$ 194,645	\$ 200,814	\$ 194,355	\$ 179,263
Preferred stock	(23,036)	(22,949)	(24,188)	(24,656)	(21,808)
Tangible common shareholders' equity	\$ 174,954	\$ 171,696	\$ 176,626	\$ 169,699	\$ 157,455
Reconciliation of year-end shareholders' equity to year-end tangible shareholders' equity and year-end tangible common shareholders' equity					
Shareholders' equity	\$ 264,810	\$ 265,325	\$ 267,146	\$ 266,195	\$ 255,615
Goodwill	(68,951)	(68,951)	(68,951)	(69,744)	(69,761)
Intangible assets (excluding MSRs)	(1,661)	(1,774)	(2,312)	(2,989)	(3,768)
Related deferred tax liabilities	713	858	943	1,545	1,716
Tangible shareholders' equity	\$ 194,911	\$ 195,458	\$ 196,826	\$ 195,007	\$ 183,802
Preferred stock	(23,401)	(22,326)	(22,323)	(25,220)	(22,272)
Tangible common shareholders' equity	\$ 171,510	\$ 173,132	\$ 174,503	\$ 169,787	\$ 161,530
Reconciliation of year-end assets to year-end tangible assets					
Assets	\$ 2,434,079	\$ 2,354,507	\$ 2,281,234	\$ 2,188,067	\$ 2,144,606
Goodwill	(68,951)	(68,951)	(68,951)	(69,744)	(69,761)
Intangible assets (excluding MSRs)	(1,661)	(1,774)	(2,312)	(2,989)	(3,768)
Related deferred tax liabilities	713	858	943	1,545	1,716
Tangible assets	\$ 2,364,180	\$ 2,284,640	\$ 2,210,914	\$ 2,116,879	\$ 2,072,793

(1) Presents reconciliations of non-GAAP financial measures to GAAP financial measures. For more information on non-GAAP financial measures and ratios we use in assessing the results of the Corporation, see Supplemental Financial Data on page 27.

Table 51 Quarterly Reconciliations to GAAP Financial Measures (1)

	2019 Quarters				2018 Quarters			
	Fourth	Third	Second	First	Fourth	Third	Second	First
Reconciliation of average shareholders' equity to average tangible shareholders' equity and average tangible common shareholders' equity								
Shareholders' equity	\$ 266,900	\$ 270,430	\$ 267,975	\$ 266,217	\$ 263,698	\$ 264,653	\$ 265,181	\$ 265,480
Goodwill	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)
Intangible assets (excluding MSRs)	(1,678)	(1,707)	(1,736)	(1,763)	(1,857)	(1,992)	(2,126)	(2,261)
Related deferred tax liabilities	730	752	770	841	874	896	916	939
Tangible shareholders' equity	\$ 197,001	\$ 200,524	\$ 198,058	\$ 196,344	\$ 193,764	\$ 194,606	\$ 195,020	\$ 195,207
Preferred stock	(23,461)	(23,800)	(22,537)	(22,326)	(22,326)	(22,841)	(23,868)	(22,767)
Tangible common shareholders' equity	\$ 173,540	\$ 176,724	\$ 175,521	\$ 174,018	\$ 171,438	\$ 171,765	\$ 171,152	\$ 172,440
Reconciliation of period-end shareholders' equity to period-end tangible shareholders' equity and period-end tangible common shareholders' equity								
Shareholders' equity	\$ 264,810	\$ 268,387	\$ 271,408	\$ 267,010	\$ 265,325	\$ 262,158	\$ 264,216	\$ 266,224
Goodwill	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)
Intangible assets (excluding MSRs)	(1,661)	(1,690)	(1,718)	(1,747)	(1,774)	(1,908)	(2,043)	(2,177)
Related deferred tax liabilities	713	734	756	773	858	878	900	920
Tangible shareholders' equity	\$ 194,911	\$ 198,480	\$ 201,495	\$ 197,085	\$ 195,458	\$ 192,177	\$ 194,122	\$ 196,016
Preferred stock	(23,401)	(23,606)	(24,689)	(22,326)	(22,326)	(22,326)	(23,181)	(24,672)
Tangible common shareholders' equity	\$ 171,510	\$ 174,874	\$ 176,806	\$ 174,759	\$ 173,132	\$ 169,851	\$ 170,941	\$ 171,344
Reconciliation of period-end assets to period-end tangible assets								
Assets	\$ 2,434,079	\$ 2,426,330	\$ 2,395,892	\$ 2,377,164	\$ 2,354,507	\$ 2,338,833	\$ 2,291,670	\$ 2,328,478
Goodwill	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)	(68,951)
Intangible assets (excluding MSRs)	(1,661)	(1,690)	(1,718)	(1,747)	(1,774)	(1,908)	(2,043)	(2,177)
Related deferred tax liabilities	713	734	756	773	858	878	900	920
Tangible assets	\$ 2,364,180	\$ 2,356,423	\$ 2,325,979	\$ 2,307,239	\$ 2,284,640	\$ 2,268,852	\$ 2,221,576	\$ 2,258,270

(1) Presents reconciliations of non-GAAP financial measures to GAAP financial measures. For more information on non-GAAP financial measures and ratios we use in assessing the results of the Corporation, see Supplemental Financial Data on page 27.

Statistical Tables

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Table I Outstanding Loans and Leases

	December 31				
	2019	2018	2017	2016	2015
(Dollars in millions)					
Consumer					
Residential mortgage	\$ 236,169	\$ 208,557	\$ 203,811	\$ 191,797	\$ 187,911
Home equity	40,208	48,286	57,744	66,443	75,948
Credit card	97,608	98,338	96,285	92,278	89,602
Non-U.S. credit card	—	—	—	9,214	9,975
Direct/Indirect consumer (1)	90,998	91,166	96,342	95,962	90,149
Other consumer (2)	192	202	166	626	713
Total consumer loans excluding loans accounted for under the fair value option	465,175	446,549	454,348	456,320	454,298
Consumer loans accounted for under the fair value option (3)	594	682	928	1,051	1,871
Total consumer	465,769	447,231	455,276	457,371	456,169
Commercial					
U.S. commercial	307,048	299,277	284,836	270,372	252,771
Non-U.S. commercial	104,966	98,776	97,792	89,397	91,549
Commercial real estate (4)	62,689	60,845	58,298	57,355	57,199
Commercial lease financing	19,880	22,534	22,116	22,375	21,352
	494,583	481,432	463,042	439,499	422,871
U.S. small business commercial (5)	15,333	14,565	13,649	12,993	12,876
Total commercial loans excluding loans accounted for under the fair value option	509,916	495,997	476,691	452,492	435,747
Commercial loans accounted for under the fair value option (3)	7,741	3,667	4,782	6,034	5,067
Total commercial	517,657	499,664	481,473	458,526	440,814
Less: Loans of business held for sale (6)	—	—	—	(9,214)	—
Total loans and leases	\$ 983,426	\$ 946,895	\$ 936,749	\$ 906,683	\$ 896,983

(1) Includes primarily auto and specialty lending loans and leases of \$50.4 billion, \$50.1 billion, \$52.4 billion, \$50.7 billion and \$43.9 billion, U.S. securities-based lending loans of \$36.7 billion, \$37.0 billion, \$39.8 billion, \$40.1 billion and \$39.8 billion and non-U.S. consumer loans of \$2.8 billion, \$2.9 billion, \$3.0 billion, \$3.0 billion and \$3.9 billion at December 31, 2019, 2018, 2017, 2016 and 2015, respectively.

(2) Substantially all of other consumer at December 31, 2019, 2018 and 2017 is consumer overdrafts. Other consumer at December 31, 2016 and 2015 also includes consumer finance loans of \$465 million and \$564 million, respectively.

(3) Consumer loans accounted for under the fair value option include residential mortgage loans of \$257 million, \$336 million, \$567 million, \$710 million and \$1.6 billion, and home equity loans of \$337 million, \$346 million, \$361 million, \$341 million and \$250 million at December 31, 2019, 2018, 2017, 2016 and 2015, respectively. Commercial loans accounted for under the fair value option include U.S. commercial loans of \$4.7 billion, \$2.5 billion, \$2.6 billion, \$2.9 billion and \$2.3 billion, and non-U.S. commercial loans of \$3.1 billion, \$1.1 billion, \$2.2 billion, \$3.1 billion and \$2.8 billion at December 31, 2019, 2018, 2017, 2016 and 2015, respectively.

(4) Includes U.S. commercial real estate loans of \$59.0 billion, \$56.6 billion, \$54.8 billion, \$54.3 billion and \$53.6 billion, and non-U.S. commercial real estate loans of \$3.7 billion, \$4.2 billion, \$3.5 billion, \$3.1 billion and \$3.5 billion at December 31, 2019, 2018, 2017, 2016 and 2015, respectively.

(5) Includes card-related products.

(6) Represents non-U.S. credit card loans, which were included in assets of business held for sale on the Consolidated Balance Sheet.

Table II Nonperforming Loans, Leases and Foreclosed Properties (1)

	December 31				
	2019	2018	2017	2016	2015
(Dollars in millions)					
Consumer					
Residential mortgage	\$ 1,470	\$ 1,893	\$ 2,476	\$ 3,056	\$ 4,803
Home equity	536	1,893	2,644	2,918	3,337
Direct/Indirect consumer	47	56	46	28	24
Other consumer	—	—	—	2	1
Total consumer (2)	2,053	3,842	5,166	6,004	8,165
Commercial					
U.S. commercial	1,094	794	814	1,256	867
Non-U.S. commercial	43	80	299	279	158
Commercial real estate	280	156	112	72	93
Commercial lease financing	32	18	24	36	12
	1,449	1,048	1,249	1,643	1,130
U.S. small business commercial	50	54	55	60	82
Total commercial (3)	1,499	1,102	1,304	1,703	1,212
Total nonperforming loans and leases	3,552	4,944	6,470	7,707	9,377
Foreclosed properties	285	300	288	377	459
Total nonperforming loans, leases and foreclosed properties	\$ 3,837	\$ 5,244	\$ 6,758	\$ 8,084	\$ 9,836

(1) Balances exclude foreclosed properties insured by certain government-guaranteed loans, principally FHA-insured loans, that entered foreclosure of \$260 million, \$488 million, \$801 million, \$1.2 billion and \$1.4 billion at December 31, 2019, 2018, 2017, 2016 and 2015, respectively.

(2) In 2019, \$422 million in interest income was estimated to be contractually due on \$2.1 billion of consumer loans and leases classified as nonperforming at December 31, 2019, as presented in the table above, plus \$5.5 billion of TDRs classified as performing at December 31, 2019. Approximately \$297 million of the estimated \$422 million in contractual interest was received and included in interest income for 2019.

(3) In 2019, \$133 million in interest income was estimated to be contractually due on \$1.5 billion of commercial loans and leases classified as nonperforming at December 31, 2019, as presented in the table above, plus \$1.3 billion of TDRs classified as performing at December 31, 2019. Approximately \$88 million of the estimated \$133 million in contractual interest was received and included in interest income for 2019.

Table III Accruing Loans and Leases Past Due 90 Days or More (1)

	December 31				
	2019	2018	2017	2016	2015
(Dollars in millions)					
Consumer					
Residential mortgage (2)	\$ 1,088	\$ 1,884	\$ 3,230	\$ 4,793	\$ 7,150
Credit card	1,042	994	900	782	789
Non-U.S. credit card	—	—	—	66	76
Direct/Indirect consumer	33	38	40	34	39
Other consumer	—	—	—	4	3
Total consumer	2,163	2,916	4,170	5,679	8,057
Commercial					
U.S. commercial	106	197	144	106	113
Non-U.S. commercial	8	—	3	5	1
Commercial real estate	19	4	4	7	3
Commercial lease financing	20	29	19	19	15
	153	230	170	137	132
U.S. small business commercial	97	84	75	71	61
Total commercial	250	314	245	208	193
Total accruing loans and leases past due 90 days or more	\$ 2,413	\$ 3,230	\$ 4,415	\$ 5,887	\$ 8,250

(1) Our policy is to classify consumer real estate-secured loans as nonperforming at 90 days past due, except the fully-insured loan portfolio and loans accounted for under the fair value option.

(2) Balances are fully-insured loans.

Table IV Selected Loan Maturity Data (1, 2)

	December 31, 2019			
	Due in One Year or Less	Due After One Year Through Five Years	Due After Five Years	Total
(Dollars in millions)				
U.S. commercial	\$ 76,523	\$ 200,298	\$ 50,216	\$ 327,037
U.S. commercial real estate	13,683	39,259	6,023	58,965
Non-U.S. and other (3)	47,828	56,072	7,875	111,775
Total selected loans	\$ 138,034	\$ 295,629	\$ 64,114	\$ 497,777
Percent of total	28%	59%	13%	100%
Sensitivity of selected loans to changes in interest rates for loans due after one year:				
Fixed interest rates		\$ 21,526	\$ 31,383	
Floating or adjustable interest rates		274,103	32,731	
Total		\$ 295,629	\$ 64,114	
(1) Loan maturities are based on the remaining maturities under contractual terms.				
(2) Includes loans accounted for under the fair value option.				
(3) Loan maturities include non-U.S. commercial and commercial real estate loans.				

Table V Allowance for Credit Losses

(Dollars in millions)	2019	2018	2017	2016	2015
Allowance for loan and lease losses, January 1	\$ 9,601	\$ 10,393	\$ 11,237	\$ 12,234	\$ 14,419
Loans and leases charged off					
Residential mortgage	(93)	(207)	(188)	(403)	(866)
Home equity	(429)	(483)	(582)	(752)	(975)
Credit card	(3,535)	(3,345)	(2,968)	(2,691)	(2,738)
Non-U.S. credit card (1)	—	—	(103)	(238)	(275)
Direct/Indirect consumer	(518)	(495)	(491)	(392)	(383)
Other consumer	(249)	(197)	(212)	(232)	(224)
Total consumer charge-offs	(4,824)	(4,727)	(4,544)	(4,708)	(5,461)
U.S. commercial (2)	(650)	(575)	(589)	(567)	(536)
Non-U.S. commercial	(115)	(82)	(446)	(133)	(59)
Commercial real estate	(31)	(10)	(24)	(10)	(30)
Commercial lease financing	(26)	(8)	(16)	(30)	(19)
Total commercial charge-offs	(822)	(675)	(1,075)	(740)	(644)
Total loans and leases charged off	(5,646)	(5,402)	(5,619)	(5,448)	(6,105)
Recoveries of loans and leases previously charged off					
Residential mortgage	140	179	288	272	393
Home equity	787	485	369	347	339
Credit card	587	508	455	422	424
Non-U.S. credit card (1)	—	—	28	63	87
Direct/Indirect consumer	309	300	277	258	271
Other consumer	15	15	49	27	31
Total consumer recoveries	1,838	1,487	1,466	1,389	1,545
U.S. commercial (3)	122	120	142	175	172
Non-U.S. commercial	31	14	6	13	5
Commercial real estate	2	9	15	41	35
Commercial lease financing	5	9	11	9	10
Total commercial recoveries	160	152	174	238	222
Total recoveries of loans and leases previously charged off	1,998	1,639	1,640	1,627	1,767
Net charge-offs	(3,648)	(3,763)	(3,979)	(3,821)	(4,338)
Provision for loan and lease losses	3,574	3,262	3,381	3,581	3,043
Other (4)	(111)	(291)	(246)	(514)	(890)
Total allowance for loan and lease losses, December 31	9,416	9,601	10,393	11,480	12,234
Less: Allowance included in assets of business held for sale (5)	—	—	—	(243)	—
Allowance for loan and lease losses, December 31	9,416	9,601	10,393	11,237	12,234
Reserve for unfunded lending commitments, January 1	797	777	762	646	528
Provision for unfunded lending commitments	16	20	15	16	118
Other (4)	—	—	—	100	—
Reserve for unfunded lending commitments, December 31	813	797	777	762	646
Allowance for credit losses, December 31	\$ 10,229	\$ 10,398	\$ 11,170	\$ 11,999	\$ 12,880

(1) Represents amounts related to the non-U.S. credit card loan portfolio, which was sold in 2017.

(2) Includes U.S. small business commercial charge-offs of \$320 million, \$287 million, \$258 million, \$253 million and \$282 million in 2019, 2018, 2017, 2016 and 2015, respectively.

(3) Includes U.S. small business commercial recoveries of \$48 million, \$47 million, \$43 million, \$45 million and \$57 million in 2019, 2018, 2017, 2016 and 2015, respectively.

(4) Primarily represents write-offs of PCI loans, the net impact of portfolio sales, consolidations and deconsolidations, foreign currency translation adjustments, transfers to held for sale and certain other reclassifications.

(5) Represents allowance related to the non-U.S. credit card loan portfolio, which was sold in 2017.

Table V Allowance for Credit Losses (continued)

(Dollars in millions)

	2019	2018	2017	2016	2015
Loan and allowance ratios (6):					
Loans and leases outstanding at December 31 (7)	\$ 975,091	\$ 942,546	\$ 931,039	\$ 908,812	\$ 890,045
Allowance for loan and lease losses as a percentage of total loans and leases outstanding at December 31 (7)	0.97 %	1.02 %	1.12 %	1.26 %	1.37 %
Consumer allowance for loan and lease losses as a percentage of total consumer loans and leases outstanding at December 31 (8)	0.98	1.08	1.18	1.36	1.63
Commercial allowance for loan and lease losses as a percentage of total commercial loans and leases outstanding at December 31 (9)	0.96	0.97	1.05	1.16	1.11
Average loans and leases outstanding (7)	\$ 951,583	\$ 927,531	\$ 911,988	\$ 892,255	\$ 869,065
Net charge-offs as a percentage of average loans and leases outstanding (7)	0.38 %	0.41 %	0.44 %	0.43 %	0.50 %
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases at December 31	265	194	161	149	130
Ratio of the allowance for loan and lease losses at December 31 to net charge-offs	2.58	2.55	2.61	3.00	2.82
Amounts included in allowance for loan and lease losses for loans and leases that are excluded from nonperforming loans and leases at December 31 (10)	\$ 4,151	\$ 4,031	\$ 3,971	\$ 3,951	\$ 4,518
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases, excluding the allowance for loan and lease losses for loans and leases that are excluded from nonperforming loans and leases at December 31 (10)	148 %	113 %	99 %	98 %	82 %

(6) Loan and allowance ratios for 2016 include \$243 million of non-U.S. credit card allowance for loan and lease losses and \$9.2 billion of ending non-U.S. credit card loans, which were sold in 2017.

(7) Outstanding loan and lease balances and ratios do not include loans accounted for under the fair value option of \$8.3 billion, \$4.3 billion, \$5.7 billion, \$7.1 billion and \$6.9 billion at December 31, 2019, 2018, 2017, 2016 and 2015, respectively. Average loans accounted for under the fair value option were \$6.8 billion, \$5.5 billion, \$6.7 billion, \$8.2 billion and \$7.7 billion in 2019, 2018, 2017, 2016 and 2015, respectively.

(8) Excludes consumer loans accounted for under the fair value option of \$594 million, \$682 million, \$928 million, \$1.1 billion and \$1.9 billion at December 31, 2019, 2018, 2017, 2016 and 2015, respectively.

(9) Excludes commercial loans accounted for under the fair value option of \$7.7 billion, \$3.7 billion, \$4.8 billion, \$6.0 billion and \$5.1 billion at December 31, 2019, 2018, 2017, 2016 and 2015, respectively.

(10) Primarily includes amounts allocated to credit card and unsecured consumer lending portfolios in *Consumer Banking* and, in 2016 and 2015, the non-U.S. credit card portfolio in *All Other*.

Table VI Allocation of the Allowance for Credit Losses by Product Type

(Dollars in millions)	December 31									
	2019		2018		2017		2016		2015	
	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total
Allowance for loan and lease losses										
Residential mortgage	\$ 325	3.45 %	\$ 422	4.40 %	\$ 701	6.74 %	\$ 1,012	8.82 %	\$ 1,500	12.26 %
Home equity	221	2.35	506	5.27	1,019	9.80	1,738	15.14	2,414	19.73
Credit card	3,710	39.39	3,597	37.47	3,368	32.41	2,934	25.56	2,927	23.93
Non-U.S. credit card	—	—	—	—	—	—	243	2.12	274	2.24
Direct/Indirect consumer	234	2.49	248	2.58	264	2.54	244	2.13	223	1.82
Other consumer	52	0.55	29	0.30	31	0.30	51	0.44	47	0.38
Total consumer	4,542	48.23	4,802	50.02	5,383	51.79	6,222	54.21	7,385	60.36
U.S. commercial (1)	3,015	32.02	3,010	31.35	3,113	29.95	3,326	28.97	2,964	24.23
Non-U.S. commercial	658	6.99	677	7.05	803	7.73	874	7.61	754	6.17
Commercial real estate	1,042	11.07	958	9.98	935	9.00	920	8.01	967	7.90
Commercial lease financing	159	1.69	154	1.60	159	1.53	138	1.20	164	1.34
Total commercial	4,874	51.77	4,799	49.98	5,010	48.21	5,258	45.79	4,849	39.64
Total allowance for loan and lease losses	9,416	100.00 %	9,601	100.00 %	10,393	100.00 %	11,480	100.00 %	12,234	100.00 %
Less: Allowance included in assets of business held for sale (2)	—		—		—		(243)		—	
Allowance for loan and lease losses	9,416		9,601		10,393		11,237		12,234	
Reserve for unfunded lending commitments	813		797		777		762		646	
Allowance for credit losses	\$ 10,229		\$ 10,398		\$ 11,170		\$ 11,999		\$ 12,880	

(1) Includes allowance for loan and lease losses for U.S. small business commercial loans of \$523 million, \$474 million, \$439 million, \$416 million and \$507 million at December 31, 2019, 2018, 2017, 2016 and 2015, respectively.

(2) Represents allowance for loan and lease losses related to the non-U.S. credit card loan portfolio, which was sold in 2017.

Item 7A. Quantitative and Qualitative Disclosures about Market Risk

See Market Risk Management on page 71 in the MD&A and the sections referenced therein for Quantitative and Qualitative Disclosures about Market Risk.

Item 8. Financial Statements and Supplementary Data

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Report of Management on Internal Control Over Financial Reporting

The management of Bank of America Corporation is responsible for establishing and maintaining adequate internal control over financial reporting.

The Corporation's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with accounting principles generally accepted in the United States of America. The Corporation's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Corporation; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with accounting principles generally accepted in the United States of America, and that receipts and expenditures of the Corporation are being made only in accordance with authorizations of management and directors of the Corporation; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the Corporation's assets that could have a material effect on the financial statements.


Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management assessed the effectiveness of the Corporation's internal control over financial reporting as of December 31, 2019 based on the framework set forth by the Committee of Sponsoring Organizations of the Treadway Commission in *Internal Control – Integrated Framework (2013)*. Based on that assessment, management concluded that, as of December 31, 2019, the Corporation's internal control over financial reporting is effective.

The Corporation's internal control over financial reporting as of December 31, 2019 has been audited by PricewaterhouseCoopers, LLP, an independent registered public accounting firm, as stated in their accompanying report which expresses an unqualified opinion on the effectiveness of the Corporation's internal control over financial reporting as of December 31, 2019.



Brian T. Moynihan
Chairman, Chief Executive Officer and President



Paul M. Donofrio
Chief Financial Officer

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of Bank of America Corporation:

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Bank of America Corporation and its subsidiaries (the "Corporation") as of December 31, 2019 and December 31, 2018, and the related consolidated statements of income, comprehensive income, changes in shareholders' equity and cash flows for each of the three years in the period ended December 31, 2019, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Corporation's internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Corporation as of December 31, 2019 and December 31, 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Corporation maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the COSO.

Basis for Opinions

The Corporation's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Report of Management on Internal Control Over Financial Reporting. Our responsibility is to express opinions on the Corporation's consolidated financial statements and on the Corporation's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Corporation in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting,

assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the consolidated financial statements that were communicated or required to be communicated to the audit committee and that (i) relate to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Allowance for Loan and Lease Losses

As described in Notes 1 and 6 to the consolidated financial statements, the allowance for loan and lease losses represents management's estimate of probable incurred credit losses in the Corporation's loan and lease portfolio. As of December 31, 2019, the allowance for loan and lease losses was \$9.4 billion on total loans and leases of \$975.1 billion, which excludes loans accounted for under the fair value option. The allowance for loan and lease losses includes both quantitative and qualitative components. The allowance for certain consumer loan portfolios considers a variety of factors including historical loss experience, estimated defaults or foreclosures based on portfolio trends, delinquencies, bankruptcies, economic conditions, credit scores and the amount of loss in the event of default. The allowance for certain commercial loans is calculated using loss rates delineated by risk rating and product type. In addition, the qualitative

component has a higher degree of management subjectivity, and includes factors such as concentrations, economic conditions and other considerations.

The principal considerations for our determination that performing procedures relating to the allowance for loan and lease losses is a critical audit matter are (i) there was significant judgment and estimation by management in determining the allowance for loan and lease losses, which in turn led to a high degree of auditor judgment, subjectivity and effort in performing procedures and in evaluating audit evidence obtained relating to the allowance for loan and lease losses, including the qualitative component, and (ii) the audit effort involved professionals with specialized skill and knowledge to assist in evaluating certain audit evidence.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the allowance for loan and lease losses. These procedures also included, among others, testing management's process for estimating the allowance for loan and lease losses, including evaluating the appropriateness of the loss forecast models and methodology, testing the completeness and accuracy of certain data used in the allowance for loan and lease losses, and evaluating the reasonableness of significant assumptions and judgments used by management to estimate the qualitative component of the allowance for loan and lease losses including those judgments related to the impact of concentrations, economic conditions and other considerations. The procedures also included the involvement of professionals with specialized skill and knowledge to assist in evaluating the reasonableness of certain loss forecast models and methodologies, evaluating the reasonableness of risk ratings used in the allowance for commercial loans, and evaluating the reasonableness of certain judgments used by management in estimating the qualitative component of the allowance for loan and lease losses.

Valuation of Certain Level 3 Financial Instruments

As described in Notes 1 and 21 to the consolidated financial statements, the Corporation carries certain financial instruments at fair value, which includes \$10.3 billion of assets and \$5.9 billion of liabilities classified as Level 3 fair value measurements for which the determination of fair value requires significant

management judgment or estimation. The Corporation determines the fair value of certain Level 3 financial instruments using quantitative models that utilize multiple significant unobservable inputs, including long-dated volatility and forward price, as applicable. As disclosed by management, estimation risk is greater for financial instruments that are either option-based or have longer maturity dates where observable market inputs are less readily available, or are unobservable, in which case, quantitative-based extrapolations are used in determining fair values.

The principal considerations for our determination that performing procedures relating to the valuation of certain Level 3 financial instruments is a critical audit matter are the significant judgment and estimation used by management to determine the fair value of these financial instruments. This in turn led to a high degree of auditor judgment and effort in performing procedures, including the involvement of professionals with specialized skill and knowledge to assist in evaluating certain audit evidence.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the valuation of financial instruments, including controls related to valuation models, significant unobservable inputs, and data. These procedures also included, among others, the involvement of professionals with specialized skill and knowledge to assist in developing an independent estimate of fair value for a sample of these certain financial instruments and comparison of management's estimate to the independently developed estimate of fair value. Developing the independent estimate involved testing the completeness and accuracy of data provided by management and evaluating the reasonableness of management's assumptions used to develop the significant unobservable inputs.



Charlotte, North Carolina
February 19, 2020

We have served as the Corporation's auditor since 1958.

Bank of America Corporation and Subsidiaries

Consolidated Statement of Income

(In millions, except per share information)

	2019	2018	2017
Net interest income			
Interest income	\$ 71,236	\$ 66,769	\$ 57,579
Interest expense	22,345	18,607	12,340
Net interest income	48,891	48,162	45,239
Noninterest income			
Fees and commissions	33,015	33,078	33,341
Market making and similar activities	9,034	9,008	7,102
Other income	304	772	1,444
Total noninterest income	42,353	42,858	41,887
Total revenue, net of interest expense	91,244	91,020	87,126
Provision for credit losses	3,590	3,282	3,396
Noninterest expense			
Compensation and benefits	31,977	31,880	31,931
Occupancy and equipment	6,588	6,380	6,264
Information processing and communications	4,646	4,555	4,530
Product delivery and transaction related	2,762	2,857	3,041
Marketing	1,934	1,674	1,746
Professional fees	1,597	1,699	1,888
Other general operating	5,396	4,109	5,117
Total noninterest expense	54,900	53,154	54,517
Income before income taxes	32,754	34,584	29,213
Income tax expense	5,324	6,437	10,981
Net income	\$ 27,430	\$ 28,147	\$ 18,232
Preferred stock dividends	1,432	1,451	1,614
Net income applicable to common shareholders	\$ 25,998	\$ 26,696	\$ 16,618
Per common share information			
Earnings	\$ 2.77	\$ 2.64	\$ 1.63
Diluted earnings	2.75	2.61	1.56
Average common shares issued and outstanding	9,390.5	10,096.5	10,195.6
Average diluted common shares issued and outstanding	9,442.9	10,236.9	10,778.4

Consolidated Statement of Comprehensive Income

(Dollars in millions)

	2019	2018	2017
Net income	\$ 27,430	\$ 28,147	\$ 18,232
Other comprehensive income (loss), net-of-tax:			
Net change in debt securities	5,875	(3,953)	61
Net change in debit valuation adjustments	(963)	749	(293)
Net change in derivatives	616	(53)	64
Employee benefit plan adjustments	136	(405)	288
Net change in foreign currency translation adjustments	(86)	(254)	86
Other comprehensive income (loss)	5,578	(3,916)	206
Comprehensive income	\$ 33,008	\$ 24,231	\$ 18,438

See accompanying Notes to Consolidated Financial Statements.

Bank of America Corporation and Subsidiaries

Consolidated Balance Sheet

	December 31	
	2019	2018
(Dollars in millions)		
Assets		
Cash and due from banks	\$ 30,152	\$ 29,063
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks	131,408	148,341
Cash and cash equivalents	161,560	177,404
Time deposits placed and other short-term investments	7,107	7,494
Federal funds sold and securities borrowed or purchased under agreements to resell (includes \$50,364 and \$56,399 measured at fair value)	274,597	261,131
Trading account assets (includes \$90,946 and \$119,363 pledged as collateral)	229,826	214,348
Derivative assets	40,485	43,725
Debt securities:		
Carried at fair value	256,467	238,101
Held-to-maturity, at cost (fair value – \$219,821 and \$200,435)	215,730	203,652
Total debt securities	472,197	441,753
Loans and leases (includes \$8,335 and \$4,349 measured at fair value)	983,426	946,895
Allowance for loan and lease losses	(9,416)	(9,601)
Loans and leases, net of allowance	974,010	937,294
Premises and equipment, net	10,561	9,906
Goodwill	68,951	68,951
Loans held-for-sale (includes \$3,709 and \$2,942 measured at fair value)	9,158	10,367
Customer and other receivables	55,937	65,814
Other assets (includes \$15,518 and \$19,739 measured at fair value)	129,690	116,320
Total assets	\$ 2,434,079	\$ 2,354,507
Liabilities		
Deposits in U.S. offices:		
Noninterest-bearing	\$ 403,305	\$ 412,587
Interest-bearing (includes \$508 and \$492 measured at fair value)	940,731	891,636
Deposits in non-U.S. offices:		
Noninterest-bearing	13,719	14,060
Interest-bearing	77,048	63,193
Total deposits	1,434,803	1,381,476
Federal funds purchased and securities loaned or sold under agreements to repurchase (includes \$16,008 and \$28,875 measured at fair value)	165,109	186,988
Trading account liabilities	83,270	68,220
Derivative liabilities	38,229	37,891
Short-term borrowings (includes \$3,941 and \$1,648 measured at fair value)	24,204	20,189
Accrued expenses and other liabilities (includes \$15,434 and \$20,075 measured at fair value and \$813 and \$797 of reserve for unfunded lending commitments)	182,798	165,026
Long-term debt (includes \$34,975 and \$27,689 measured at fair value)	240,856	229,392
Total liabilities	2,169,269	2,089,182
Commitments and contingencies (Note 7 – Securitizations and Other Variable Interest Entities and Note 13 – Commitments and Contingencies)		
Shareholders' equity		
Preferred stock, \$0.01 par value; authorized – 100,000,000 shares; issued and outstanding – 3,887,440 and 3,843,140 shares	23,401	22,326
Common stock and additional paid-in capital, \$0.01 par value; authorized – 12,800,000,000 shares; issued and outstanding – 8,836,148,954 and 9,669,286,370 shares	91,723	118,896
Retained earnings	156,319	136,314
Accumulated other comprehensive income (loss)	(6,633)	(12,211)
Total shareholders' equity	264,810	265,325
Total liabilities and shareholders' equity	\$ 2,434,079	\$ 2,354,507
Assets of consolidated variable interest entities included in total assets above (isolated to settle the liabilities of the variable interest entities)		
Trading account assets	\$ 5,811	\$ 5,798
Loans and leases	38,837	43,850
Allowance for loan and lease losses	(807)	(912)
Loans and leases, net of allowance	38,030	42,938
All other assets	540	337
Total assets of consolidated variable interest entities	\$ 44,381	\$ 49,073
Liabilities of consolidated variable interest entities included in total liabilities above		
Short-term borrowings	\$ 2,175	\$ 742
Long-term debt (includes \$8,717 and \$10,943 of non-recourse debt)	8,718	10,944
All other liabilities (includes \$19 and \$27 of non-recourse liabilities)	22	30
Total liabilities of consolidated variable interest entities	\$ 10,915	\$ 11,716

See accompanying Notes to Consolidated Financial Statements.

Bank of America Corporation and Subsidiaries

Consolidated Statement of Changes in Shareholders' Equity

(In millions)	Preferred Stock	Common Stock and Additional Paid-in Capital		Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total Shareholders' Equity
		Shares	Amount			
Balance, December 31, 2016	\$ 25,220	10,052.6	\$ 147,038	\$ 101,225	\$ (7,288)	\$ 266,195
Net income				18,232		18,232
Net change in debt securities					61	61
Net change in debit valuation adjustments					(293)	(293)
Net change in derivatives					64	64
Employee benefit plan adjustments					288	288
Net change in foreign currency translation adjustments					86	86
Dividends declared:						
Common				(4,027)		(4,027)
Preferred				(1,578)		(1,578)
Common stock issued in connection with exercise of warrants and exchange of preferred stock	(2,897)	700.0	2,933	(36)		—
Common stock issued under employee plans, net, and other		43.3	932			932
Common stock repurchased		(508.6)	(12,814)			(12,814)
Balance, December 31, 2017	\$ 22,323	10,287.3	\$ 138,089	\$ 113,816	\$ (7,082)	\$ 267,146
Cumulative adjustment for adoption of hedge accounting standard				(32)	57	25
Adoption of accounting standard related to certain tax effects stranded in accumulated other comprehensive income (loss)				1,270	(1,270)	—
Net income				28,147		28,147
Net change in debt securities					(3,953)	(3,953)
Net change in debit valuation adjustments					749	749
Net change in derivatives					(53)	(53)
Employee benefit plan adjustments					(405)	(405)
Net change in foreign currency translation adjustments					(254)	(254)
Dividends declared:						
Common				(5,424)		(5,424)
Preferred				(1,451)		(1,451)
Issuance of preferred stock	4,515					4,515
Redemption of preferred stock	(4,512)					(4,512)
Common stock issued under employee plans, net, and other		58.2	901	(12)		889
Common stock repurchased		(676.2)	(20,094)			(20,094)
Balance, December 31, 2018	\$ 22,326	9,669.3	\$ 118,896	\$ 136,314	\$ (12,211)	\$ 265,325
Cumulative adjustment for adoption of lease accounting standard				165		165
Net income				27,430		27,430
Net change in debt securities					5,875	5,875
Net change in debit valuation adjustments					(963)	(963)
Net change in derivatives					616	616
Employee benefit plan adjustments					136	136
Net change in foreign currency translation adjustments					(86)	(86)
Dividends declared:						
Common				(6,146)		(6,146)
Preferred				(1,432)		(1,432)
Issuance of preferred stock	3,643					3,643
Redemption of preferred stock	(2,568)					(2,568)
Common stock issued under employee plans, net, and other		123.3	971	(12)		959
Common stock repurchased		(956.5)	(28,144)			(28,144)
Balance, December 31, 2019	\$ 23,401	8,836.1	\$ 91,723	\$ 156,319	\$ (6,633)	\$ 264,810

Bank of America Corporation and Subsidiaries

Consolidated Statement of Cash Flows

(Dollars in millions)	2019	2018	2017
Operating activities			
Net income	\$ 27,430	\$ 28,147	\$ 18,232
Adjustments to reconcile net income to net cash provided by operating activities:			
Provision for credit losses	3,590	3,282	3,396
Gains on sales of debt securities	(217)	(154)	(255)
Depreciation and amortization	1,729	2,063	2,103
Net amortization of premium/discount on debt securities	2,066	1,824	2,251
Deferred income taxes	2,435	3,041	8,175
Stock-based compensation	1,974	1,729	1,649
Impairment of equity method investment	2,072	—	—
Loans held-for-sale:			
Originations and purchases	(28,874)	(28,071)	(43,506)
Proceeds from sales and paydowns of loans originally classified as held for sale and instruments from related securitization activities	30,191	28,972	40,548
Net change in:			
Trading and derivative assets/liabilities	7,920	(23,673)	(14,663)
Other assets	(11,113)	11,920	(20,090)
Accrued expenses and other liabilities	16,363	13,010	4,673
Other operating activities, net	6,211	(2,570)	7,351
Net cash provided by operating activities	61,777	39,520	9,864
Investing activities			
Net change in:			
Time deposits placed and other short-term investments	387	3,659	(1,292)
Federal funds sold and securities borrowed or purchased under agreements to resell	(13,466)	(48,384)	(14,523)
Debt securities carried at fair value:			
Proceeds from sales	52,006	5,117	73,353
Proceeds from paydowns and maturities	79,114	78,513	93,874
Purchases	(152,782)	(76,640)	(166,975)
Held-to-maturity debt securities:			
Proceeds from paydowns and maturities	34,770	18,789	16,653
Purchases	(37,115)	(35,980)	(25,088)
Loans and leases:			
Proceeds from sales of loans originally classified as held for investment and instruments from related securitization activities	12,201	21,365	11,996
Purchases	(5,963)	(4,629)	(6,846)
Other changes in loans and leases, net	(46,808)	(31,292)	(41,104)
Other investing activities, net	(2,974)	(1,986)	8,411
Net cash used in investing activities	(80,630)	(71,468)	(51,541)
Financing activities			
Net change in:			
Deposits	53,327	71,931	48,611
Federal funds purchased and securities loaned or sold under agreements to repurchase	(21,879)	10,070	7,024
Short-term borrowings	4,004	(12,478)	8,538
Long-term debt:			
Proceeds from issuance	52,420	64,278	53,486
Retirement	(50,794)	(53,046)	(49,480)
Preferred stock:			
Proceeds from issuance	3,643	4,515	—
Redemption	(2,568)	(4,512)	—
Common stock repurchased	(28,144)	(20,094)	(12,814)
Cash dividends paid	(5,934)	(6,895)	(5,700)
Other financing activities, net	(698)	(651)	(397)
Net cash provided by financing activities	3,377	53,118	49,268
Effect of exchange rate changes on cash and cash equivalents	(368)	(1,200)	2,105
Net increase (decrease) in cash and cash equivalents	(15,844)	19,970	9,696
Cash and cash equivalents at January 1	177,404	157,434	147,738
Cash and cash equivalents at December 31	\$ 161,560	\$ 177,404	\$ 157,434
Supplemental cash flow disclosures			
Interest paid	\$ 22,196	\$ 19,087	\$ 12,852
Income taxes paid, net	4,359	2,470	3,235

See accompanying Notes to Consolidated Financial Statements.

Bank of America Corporation and Subsidiaries

Notes to Consolidated Financial Statements

NOTE 1 Summary of Significant Accounting Principles

Bank of America Corporation, a bank holding company and a financial holding company, provides a diverse range of financial services and products throughout the U.S. and in certain international markets. The term "the Corporation" as used herein may refer to Bank of America Corporation, individually, Bank of America Corporation and its subsidiaries, or certain of Bank of America Corporation's subsidiaries or affiliates.

Principles of Consolidation and Basis of Presentation

The Consolidated Financial Statements include the accounts of the Corporation and its majority-owned subsidiaries and those variable interest entities (VIEs) where the Corporation is the primary beneficiary. Intercompany accounts and transactions have been eliminated. Results of operations of acquired companies are included from the dates of acquisition, and for VIEs, from the dates that the Corporation became the primary beneficiary. Assets held in an agency or fiduciary capacity are not included in the Consolidated Financial Statements. The Corporation accounts for investments in companies for which it owns a voting interest and for which it has the ability to exercise significant influence over operating and financing decisions using the equity method of accounting. These investments are included in other assets. Equity method investments are subject to impairment testing, and the Corporation's proportionate share of income or loss is included in other income.

The preparation of the Consolidated Financial Statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect reported amounts and disclosures. Actual results could materially differ from those estimates and assumptions. Certain prior-period amounts have been reclassified to conform to current-period presentation.

In the Consolidated Statement of Income, amounts related to certain asset and liability management (ALM) activities have been reclassified from other income to market making and similar activities, which was previously referred to as trading account income. All prior periods presented reflect this change, which has no impact on the Corporation's total noninterest income or net income, and has no impact on business segment results. The amounts included in market making and similar activities related to this change in presentation are increases of \$930 million, \$1.1 billion and \$332 million for 2019, 2018 and 2017, respectively.

New Accounting Standards

Lease Accounting

On January 1, 2019, the Corporation adopted the new accounting standards that require lessees to recognize operating leases on the balance sheet as right-of-use assets and lease liabilities based on the value of the discounted future lease payments. Lessor accounting is largely unchanged. Expanded disclosures about the nature and terms of lease agreements are required prospectively and are included in *Note 9 – Leases*. The Corporation elected to retain prior determinations of whether an existing contract contains a lease and how the lease should be classified. The Corporation elected to recognize leases existing on January 1, 2019 through a cumulative-effect adjustment which increased retained earnings by \$165 million, with no adjustment to prior periods presented. Upon adoption, the Corporation also recognized right-of-use assets and lease liabilities of \$9.7 billion.

Adoption of the standards did not have a significant effect on the Corporation's regulatory capital measures.

Accounting for Financial Instruments -- Credit Losses

On January 1, 2020, the Corporation adopted the new accounting standard that requires the measurement of the allowance for credit losses to be based on management's best estimate of lifetime expected credit losses inherent in the Corporation's relevant financial assets. The Corporation's lifetime expected credit losses are determined using macroeconomic forecast assumptions and management judgments applicable to and through the expected life of the loan portfolios, and are net of expected recoveries on loans that were previously charged off. The standard also expands credit quality disclosures beginning in the first quarter of 2020. While the standard changes the measurement of the allowance for credit losses, it does not change the Corporation's credit risk of its lending portfolios or the ultimate losses in those portfolios. Upon adoption of the standard on January 1, 2020, the Corporation recorded a \$3.3 billion, or 32 percent, increase to the allowance for credit losses. After adjusting for deferred taxes and other adoption effects, a \$2.4 billion decrease was recorded in retained earnings through a cumulative-effect adjustment.

Significant Accounting Principles

Cash and Cash Equivalents

Cash and cash equivalents include cash on hand, cash items in the process of collection, cash segregated under federal and other brokerage regulations, and amounts due from correspondent banks, the Federal Reserve Bank and certain non-U.S. central banks. Certain cash balances are restricted as to withdrawal or usage by legally binding contractual agreements or regulatory requirements.

Securities Financing Agreements

Securities borrowed or purchased under agreements to resell and securities loaned or sold under agreements to repurchase (securities financing agreements) are treated as collateralized financing transactions except in instances where the transaction is required to be accounted for as individual sale and purchase transactions. Generally, these agreements are recorded at acquisition or sale price plus accrued interest, except for certain securities financing agreements that the Corporation accounts for under the fair value option. Changes in the fair value of securities financing agreements that are accounted for under the fair value option are recorded in market making and similar activities in the Consolidated Statement of Income.

The Corporation's policy is to monitor the market value of the principal amount loaned under resale agreements and obtain collateral from or return collateral pledged to counterparties when appropriate. Securities financing agreements do not create material credit risk due to these collateral provisions; therefore, an allowance for loan losses is not necessary.

In transactions where the Corporation acts as the lender in a securities lending agreement and receives securities that can be pledged or sold as collateral, it recognizes an asset on the Consolidated Balance Sheet at fair value, representing the securities received, and a liability, representing the obligation to return those securities.

Collateral

The Corporation accepts securities and loans as collateral that it is permitted by contract or practice to sell or repledge. At December 31, 2019 and 2018, the fair value of this collateral was \$693.0 billion and \$599.0 billion, of which \$593.8 billion and \$508.6

billion were sold or repledged. The primary source of this collateral is securities borrowed or purchased under agreements to resell.

The Corporation also pledges company-owned securities and loans as collateral in transactions that include repurchase agreements, securities loaned, public and trust deposits, U.S. Treasury tax and loan notes, and short-term borrowings. This collateral, which in some cases can be sold or repledged by the counterparties to the transactions, is parenthetically disclosed on the Consolidated Balance Sheet.

In certain cases, the Corporation has transferred assets to consolidated VIEs where those restricted assets serve as collateral for the interests issued by the VIEs. These assets are included on the Consolidated Balance Sheet in Assets of Consolidated VIEs.

In addition, the Corporation obtains collateral in connection with its derivative contracts. Required collateral levels vary depending on the credit risk rating and the type of counterparty. Generally, the Corporation accepts collateral in the form of cash, U.S. Treasury securities and other marketable securities. Based on provisions contained in master netting agreements, the Corporation nets cash collateral received against derivative assets. The Corporation also pledges collateral on its own derivative positions which can be applied against derivative liabilities.

Trading Instruments

Financial instruments utilized in trading activities are carried at fair value. Fair value is generally based on quoted market prices for the same or similar assets and liabilities. If these market prices are not available, fair values are estimated based on dealer quotes, pricing models, discounted cash flow methodologies, or similar techniques where the determination of fair value may require significant management judgment or estimation. Realized gains and losses are recorded on a trade-date basis. Realized and unrealized gains and losses are recognized in market making and similar activities.

Derivatives and Hedging Activities

Derivatives are entered into on behalf of customers, for trading or to support risk management activities. Derivatives used in risk management activities include derivatives that are both designated in qualifying accounting hedge relationships and derivatives used to hedge market risks in relationships that are not designated in qualifying accounting hedge relationships (referred to as other risk management activities). The Corporation manages interest rate and foreign currency exchange rate sensitivity predominantly through the use of derivatives. Derivatives utilized by the Corporation include swaps, futures and forward settlement contracts, and option contracts.

All derivatives are recorded on the Consolidated Balance Sheet at fair value, taking into consideration the effects of legally enforceable master netting agreements that allow the Corporation to settle positive and negative positions and offset cash collateral held with the same counterparty on a net basis. For exchange-traded contracts, fair value is based on quoted market prices in active or inactive markets or is derived from observable market-based pricing parameters, similar to those applied to over-the-counter (OTC) derivatives. For non-exchange traded contracts, fair value is based on dealer quotes, pricing models, discounted cash flow methodologies or similar techniques for which the determination of fair value may require significant management judgment or estimation.

Valuations of derivative assets and liabilities reflect the value of the instrument including counterparty credit risk. These values also take into account the Corporation's own credit standing.

Trading Derivatives and Other Risk Management Activities

Derivatives held for trading purposes are included in derivative assets or derivative liabilities on the Consolidated Balance Sheet with changes in fair value included in market making and similar activities.

Derivatives used for other risk management activities are included in derivative assets or derivative liabilities. Derivatives used in other risk management activities have not been designated in qualifying accounting hedge relationships because they did not qualify or the risk that is being mitigated pertains to an item that is reported at fair value through earnings so that the effect of measuring the derivative instrument and the asset or liability to which the risk exposure pertains will offset in the Consolidated Statement of Income to the extent effective. The changes in the fair value of derivatives that serve to mitigate certain risks associated with mortgage servicing rights (MSRs), interest rate lock commitments (IRLCs) and first-lien mortgage loans held-for-sale (LHFS) that are originated by the Corporation are recorded in other income. Changes in the fair value of derivatives that serve to mitigate interest rate risk and foreign currency risk are included in market making and similar activities. Credit derivatives are also used by the Corporation to mitigate the risk associated with various credit exposures. The changes in the fair value of these derivatives are included in market making and similar activities and other income.

Derivatives Used For Hedge Accounting Purposes (Accounting Hedges)

For accounting hedges, the Corporation formally documents at inception all relationships between hedging instruments and hedged items, as well as the risk management objectives and strategies for undertaking various accounting hedges. Additionally, the Corporation primarily uses regression analysis at the inception of a hedge and for each reporting period thereafter to assess whether the derivative used in an accounting hedge transaction is expected to be and has been highly effective in offsetting changes in the fair value or cash flows of a hedged item or forecasted transaction. The Corporation discontinues hedge accounting when it is determined that a derivative is not expected to be or has ceased to be highly effective as a hedge, and then reflects changes in fair value of the derivative in earnings after termination of the hedge relationship.

Fair value hedges are used to protect against changes in the fair value of the Corporation's assets and liabilities that are attributable to interest rate or foreign exchange volatility. Changes in the fair value of derivatives designated as fair value hedges are recorded in earnings, together and in the same income statement line item with changes in the fair value of the related hedged item. If a derivative instrument in a fair value hedge is terminated or the hedge designation removed, the previous adjustments to the carrying value of the hedged asset or liability are subsequently accounted for in the same manner as other components of the carrying value of that asset or liability. For interest-earning assets and interest-bearing liabilities, such adjustments are amortized to earnings over the remaining life of the respective asset or liability.

Cash flow hedges are used primarily to minimize the variability in cash flows of assets and liabilities or forecasted transactions caused by interest rate or foreign exchange rate fluctuations. The Corporation also uses cash flow hedges to hedge the price risk associated with deferred compensation. Changes in the fair value of derivatives used in cash flow hedges are recorded in accumulated other comprehensive income (OCI) and are reclassified into the line item in the income statement in which the hedged item is recorded in the same period the hedged item affects earnings. Components of a derivative that are excluded in

assessing hedge effectiveness are recorded in the same income statement line item as the hedged item.

Net investment hedges are used to manage the foreign exchange rate sensitivity arising from a net investment in a foreign operation. Changes in the spot prices of derivatives that are designated as net investment hedges of foreign operations are recorded as a component of accumulated OCI. The remaining components of these derivatives are excluded in assessing hedge effectiveness and are recorded in market making and similar activities.

Securities

Debt securities are reported on the Consolidated Balance Sheet at their trade date. Their classification is dependent on the purpose for which the securities were acquired. Debt securities purchased for use in the Corporation's trading activities are reported in trading account assets at fair value with unrealized gains and losses included in market making and similar activities. Substantially all other debt securities purchased are used in the Corporation's ALM activities and are reported on the Consolidated Balance Sheet as either debt securities carried at fair value or as held-to-maturity (HTM) debt securities. Debt securities carried at fair value are either available-for-sale (AFS) securities with unrealized gains and losses net-of-tax included in accumulated OCI or carried at fair value with unrealized gains and losses reported in other income. HTM debt securities, which are certain debt securities that management has the intent and ability to hold to maturity, are reported at amortized cost.

The Corporation regularly evaluates each AFS and HTM debt security where the value has declined below amortized cost to assess whether the decline in fair value is other than temporary. In determining whether an impairment is other than temporary, the Corporation considers the severity and duration of the decline in fair value, the length of time expected for recovery, the financial condition of the issuer, and other qualitative factors, as well as whether the Corporation either plans to sell the security or it is more likely than not that it will be required to sell the security before recovery of the amortized cost. For AFS debt securities the Corporation intends to hold, an analysis is performed to determine how much of the decline in fair value is related to the issuer's credit and how much is related to market factors (e.g., interest rates). If any of the decline in fair value is due to credit, an other-than-temporary impairment (OTTI) loss is recognized in the Consolidated Statement of Income for that amount. If any of the decline in fair value is related to market factors, that amount is recognized in accumulated OCI. In certain instances, the credit loss may exceed the total decline in fair value, in which case, the difference is due to market factors and is recognized as an unrealized gain in accumulated OCI. If the Corporation intends to sell or believes it is more likely than not that it will be required to sell the debt security, it is written down to fair value as an OTTI loss.

Interest on debt securities, including amortization of premiums and accretion of discounts, is included in interest income. Premiums and discounts are amortized or accreted to interest income at a constant effective yield over the contractual lives of the securities. Realized gains and losses from the sales of debt securities are determined using the specific identification method.

Equity securities with readily determinable fair values that are not held for trading purposes are carried at fair value with unrealized gains and losses included in other income. Equity securities that do not have readily determinable fair values are recorded at cost less impairment, if any, plus or minus qualifying observable price changes. These securities are reported in other assets.

Loans and Leases

Loans, with the exception of loans accounted for under the fair value option, are measured at historical cost and reported at their outstanding principal balances net of any unearned income, charge-offs, unamortized deferred fees and costs on originated loans, and for purchased loans, net of any unamortized premiums or discounts. Loan origination fees and certain direct origination costs are deferred and recognized as adjustments to interest income over the lives of the related loans. Unearned income, discounts and premiums are amortized to interest income using a level yield methodology. The Corporation elects to account for certain consumer and commercial loans under the fair value option with interest reported in interest income and changes in fair value reported in market making and similar activities or other income.

Under applicable accounting guidance, for reporting purposes, the loan and lease portfolio is categorized by portfolio segment and, within each portfolio segment, by class of financing receivables. A portfolio segment is defined as the level at which an entity develops and documents a systematic methodology to determine the allowance for credit losses, and a class of financing receivables is defined as the level of disaggregation of portfolio segments based on the initial measurement attribute, risk characteristics and methods for assessing risk. The Corporation's three portfolio segments are Consumer Real Estate, Credit Card and Other Consumer, and Commercial. The classes within the Consumer Real Estate portfolio segment are residential mortgage and home equity. The classes within the Credit Card and Other Consumer portfolio segment are credit card, direct/indirect consumer and other consumer. The classes within the Commercial portfolio segment are U.S. commercial, non-U.S. commercial, commercial real estate, commercial lease financing and U.S. small business commercial.

Leases

The Corporation provides equipment financing to its customers through a variety of lessor arrangements. Direct financing leases and sales-type leases are carried at the aggregate of lease payments receivable plus the estimated residual value of the leased property less unearned income, which is accreted to interest income over the lease terms using methods that approximate the interest method. Operating lease income is recognized on a straight-line basis. The Corporation's lease arrangements generally do not contain non-lease components.

Allowance for Credit Losses

The allowance for credit losses, which includes the allowance for loan and lease losses and the reserve for unfunded lending commitments, represents management's estimate of probable incurred credit losses in the Corporation's loan and lease portfolio excluding loans and unfunded lending commitments accounted for under the fair value option. The allowance for credit losses includes both quantitative and qualitative components. The qualitative component has a higher degree of management subjectivity, and includes factors such as concentrations, economic conditions and other considerations. The allowance for loan and lease losses represents the estimated probable credit losses on funded consumer and commercial loans and leases while the reserve for unfunded lending commitments, including standby letters of credit (SBLCs) and binding unfunded loan commitments, represents estimated probable credit losses on these unfunded credit instruments based on utilization assumptions. Lending-related credit exposures deemed to be uncollectible, excluding loans carried at fair value, are charged off against these accounts.

The Corporation performs periodic and systematic detailed reviews of its lending portfolios to identify credit risks and to assess the overall collectability of those portfolios. The allowance on certain homogeneous consumer loan portfolios, which generally consist of consumer real estate loans within the Consumer Real Estate portfolio segment and credit card loans within the Credit Card and Other Consumer portfolio segment, is based on aggregated portfolio segment evaluations generally by product type. Loss forecast models are utilized for these portfolios which consider a variety of factors including, but not limited to, historical loss experience, estimated defaults or foreclosures based on portfolio trends, delinquencies, bankruptcies, economic conditions, credit scores and the amount of loss in the event of default.

For consumer loans secured by residential real estate, using statistical modeling methodologies, the Corporation estimates the number of loans that will default based on the individual loan attributes aggregated into pools of homogeneous loans with similar attributes. The attributes that are most significant to the probability of default and are used to estimate defaults include refreshed loan-to-value (LTV) or, in the case of a subordinated lien, refreshed combined LTV (CLTV), borrower credit score, months since origination and geography, all of which are further broken down by present collection status (whether the loan is current, delinquent, in default or in bankruptcy). The severity of loss given default is estimated based on the refreshed LTV for first-lien mortgages or CLTV for subordinated liens. The estimates are based on the Corporation's historical experience with the loan portfolio, adjusted to reflect an assessment of environmental factors not yet reflected in the historical data underlying the loss estimates, such as changes in real estate values, local and national economies, underwriting standards and the regulatory environment. The probability of default models also incorporate recent experience with modification programs including re-defaults subsequent to modification, a loan's default history prior to modification and the change in borrower payments post-modification. On home equity loans where the Corporation holds only a second-lien position and foreclosure is not the best alternative, the loss severity is estimated at 100 percent.

The allowance on certain commercial loans (except business card and certain small business loans) is calculated using loss rates delineated by risk rating and product type. Factors considered when assessing loss rates include the value of the underlying collateral, if applicable, the industry of the obligor, and the obligor's liquidity and other financial indicators along with certain qualitative factors. These statistical models are updated regularly for changes in economic and business conditions. Included in the analysis of consumer and commercial loan portfolios are qualitative estimates which are maintained to cover uncertainties that affect the Corporation's estimate of probable losses including domestic and global economic uncertainty and large single-name defaults.

For individually impaired loans, which include nonperforming commercial loans as well as consumer and commercial loans and leases modified in a troubled debt restructuring (TDR), management measures impairment primarily based on the present value of payments expected to be received, discounted at the loans' original effective contractual interest rates. Credit card loans are discounted at the portfolio average contractual annual percentage rate, excluding promotionally priced loans, in effect prior to restructuring. Impaired loans and TDRs may also be measured based on observable market prices, or for loans that are solely dependent on the collateral for repayment, the estimated fair value of the collateral less costs to sell. If the recorded investment in impaired loans exceeds this amount, a specific allowance is established as part of the allowance for loan and

lease losses unless these are secured consumer loans that are solely dependent on collateral for repayment, in which case the amount that exceeds the fair value of the collateral is charged off.

Generally, the Corporation initially estimates the fair value of the collateral securing these consumer real estate-secured loans using an automated valuation model (AVM). An AVM is a tool that estimates the value of a property by reference to market data including sales of comparable properties and price trends specific to the Metropolitan Statistical Area in which the property being valued is located. In the event that an AVM value is not available, the Corporation utilizes publicized indices or if these methods provide less reliable valuations, the Corporation uses appraisals or broker price opinions to estimate the fair value of the collateral. While there is inherent imprecision in these valuations, the Corporation believes that they are representative of the portfolio in the aggregate.

In addition to the allowance for loan and lease losses, the Corporation also estimates probable losses related to unfunded lending commitments, such as letters of credit, financial guarantees and binding unfunded loan commitments. Unfunded lending commitments are subject to individual reviews and are analyzed and segregated by risk according to the Corporation's internal risk rating scale. These risk classifications, in conjunction with an analysis of historical loss experience, utilization assumptions, current economic conditions, performance trends within the portfolio and any other pertinent information, result in the estimation of the reserve for unfunded lending commitments.

The allowance for credit losses related to the loan and lease portfolio is reported separately on the Consolidated Balance Sheet whereas the reserve for unfunded lending commitments is reported on the Consolidated Balance Sheet in accrued expenses and other liabilities. The provision for credit losses related to the loan and lease portfolio and unfunded lending commitments is reported in the Consolidated Statement of Income.

Nonperforming Loans and Leases, Charge-offs and Delinquencies

Nonperforming loans and leases generally include loans and leases that have been placed on nonaccrual status. Loans accounted for under the fair value option and LHFS are not reported as nonperforming.

In accordance with the Corporation's policies, consumer real estate-secured loans, including residential mortgages and home equity loans, are generally placed on nonaccrual status and classified as nonperforming at 90 days past due unless repayment of the loan is insured by the Federal Housing Administration (FHA) or through individually insured long-term standby agreements with Fannie Mae (FNMA) or Freddie Mac (FHLMC) (the fully-insured portfolio). Residential mortgage loans in the fully-insured portfolio are not placed on nonaccrual status and, therefore, are not reported as nonperforming. Junior-lien home equity loans are placed on nonaccrual status and classified as nonperforming when the underlying first-lien mortgage loan becomes 90 days past due even if the junior-lien loan is current. The outstanding balance of real estate-secured loans that is in excess of the estimated property value less costs to sell is charged off no later than the end of the month in which the loan becomes 180 days past due unless the loan is fully insured, or for loans in bankruptcy, within 60 days of receipt of notification of filing, with the remaining balance classified as nonperforming.

Consumer loans secured by personal property, credit card loans and other unsecured consumer loans are not placed on nonaccrual status prior to charge-off and, therefore, are not reported as nonperforming loans, except for certain secured consumer loans, including those that have been modified in a TDR. Personal

property-secured loans (including auto loans) are charged off to collateral value no later than the end of the month in which the account becomes 120 days past due, or upon repossession of an auto or, for loans in bankruptcy, within 60 days of receipt of notification of filing. Credit card and other unsecured customer loans are charged off no later than the end of the month in which the account becomes 180 days past due, within 60 days after receipt of notification of death or bankruptcy, or upon confirmation of fraud.

Commercial loans and leases, excluding business card loans, that are past due 90 days or more as to principal or interest, or where reasonable doubt exists as to timely collection, including loans that are individually identified as being impaired, are generally placed on nonaccrual status and classified as nonperforming unless well-secured and in the process of collection.

Business card loans are charged off in the same manner as consumer credit card loans. Other commercial loans and leases are generally charged off when all or a portion of the principal amount is determined to be uncollectible.

The entire balance of a consumer loan or commercial loan or lease is contractually delinquent if the minimum payment is not received by the specified due date on the customer's billing statement. Interest and fees continue to accrue on past due loans and leases until the date the loan is placed on nonaccrual status, if applicable. Accrued interest receivable is reversed when loans and leases are placed on nonaccrual status. Interest collections on nonaccruing loans and leases for which the ultimate collectability of principal is uncertain are applied as principal reductions; otherwise, such collections are credited to income when received. Loans and leases may be restored to accrual status when all principal and interest is current and full repayment of the remaining contractual principal and interest is expected.

Troubled Debt Restructurings

Consumer and commercial loans and leases whose contractual terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties are classified as TDRs. Concessions could include a reduction in the interest rate to a rate that is below market on the loan, payment extensions, forgiveness of principal, forbearance or other actions designed to maximize collections. Loans that are carried at fair value and LHFS are not classified as TDRs.

Loans and leases whose contractual terms have been modified in a TDR and are current at the time of restructuring may remain on accrual status if there is demonstrated performance prior to the restructuring and payment in full under the restructured terms is expected. Otherwise, the loans are placed on nonaccrual status and reported as nonperforming, except for fully-insured consumer real estate loans, until there is sustained repayment performance for a reasonable period, generally six months. If accruing TDRs cease to perform in accordance with their modified contractual terms, they are placed on nonaccrual status and reported as nonperforming TDRs.

Secured consumer loans that have been discharged in Chapter 7 bankruptcy and have not been reaffirmed by the borrower are classified as TDRs at the time of discharge. Such loans are placed on nonaccrual status and written down to the estimated collateral value less costs to sell no later than at the time of discharge. If these loans are contractually current, interest collections are generally recorded in interest income on a cash basis. Consumer real estate-secured loans for which a binding offer to restructure has been extended are also classified as TDRs. Credit card and other unsecured consumer loans that have been renegotiated in a TDR generally remain on accrual status until the loan is either

paid in full or charged off, which occurs no later than the end of the month in which the loan becomes 180 days past due or, for loans that have been placed on a fixed payment plan, 120 days past due.

A loan that had previously been modified in a TDR and is subsequently refinanced under current underwriting standards at a market rate with no concessionary terms is accounted for as a new loan and is no longer reported as a TDR.

Loans Held-for-sale

Loans that the Corporation intends to sell in the foreseeable future, including residential mortgages, loan syndications, and to a lesser degree, commercial real estate, consumer finance and other loans, are reported as LHFS and are carried at the lower of aggregate cost or fair value. The Corporation accounts for certain LHFS, including residential mortgage LHFS, under the fair value option with interest recorded in interest income and changes in fair value recorded in other income. Loan origination costs related to LHFS that the Corporation accounts for under the fair value option are recognized in noninterest expense when incurred. Loan origination costs for LHFS carried at the lower of cost or fair value are capitalized as part of the carrying value of the loans and recognized as a reduction of noninterest income upon the sale of such loans. LHFS that are on nonaccrual status and are reported as nonperforming, as defined in the policy herein, are reported separately from nonperforming loans and leases.

Premises and Equipment

Premises and equipment are carried at cost less accumulated depreciation and amortization. Depreciation and amortization are recognized using the straight-line method over the estimated useful lives of the assets. Estimated lives range up to 40 years for buildings, up to 12 years for furniture and equipment, and the shorter of lease term or estimated useful life for leasehold improvements.

Lessee Arrangements

Substantially all of the Corporation's lessee arrangements are operating leases. Under these arrangements, the Corporation records right-of-use assets and lease liabilities at lease commencement. Right-of-use assets are reported in other assets on the Consolidated Balance Sheet, and the related lease liabilities are reported in accrued expenses and other liabilities. All leases are recorded on the Consolidated Balance Sheet except leases with an initial term less than 12 months for which the Corporation made the short-term lease election. Lease expense is recognized on a straight-line basis over the lease term and is recorded in occupancy and equipment expense in the Consolidated Statement of Income.

The Corporation made an accounting policy election not to separate lease and non-lease components of a contract that is or contains a lease for its real estate and equipment leases. As such, lease payments represent payments on both lease and non-lease components. At lease commencement, lease liabilities are recognized based on the present value of the remaining lease payments and discounted using the Corporation's incremental borrowing rate. Right-of-use assets initially equal the lease liability, adjusted for any lease payments made prior to lease commencement and for any lease incentives.

Goodwill and Intangible Assets

Goodwill is the purchase premium after adjusting for the fair value of net assets acquired. Goodwill is not amortized but is reviewed for potential impairment on an annual basis, or when events or circumstances indicate a potential impairment, at the reporting

unit level. A reporting unit is a business segment or one level below a business segment.

The Corporation assesses the fair value of each reporting unit against its carrying value, including goodwill, as measured by allocated equity. For purposes of goodwill impairment testing, the Corporation utilizes allocated equity as a proxy for the carrying value of its reporting units. Allocated equity in the reporting units is comprised of allocated capital plus capital for the portion of goodwill and intangibles specifically assigned to the reporting unit.

In performing its goodwill impairment testing, the Corporation first assesses qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying value. Qualitative factors include, among other things, macroeconomic conditions, industry and market considerations, financial performance of the respective reporting unit and other relevant entity- and reporting-unit specific considerations.

If the Corporation concludes it is more likely than not that the fair value of a reporting unit is less than its carrying value, a quantitative assessment is performed. If the fair value of the reporting unit exceeds its carrying value, goodwill of the reporting unit is considered not impaired; however, if the carrying value of the reporting unit exceeds its fair value, an additional step is performed to measure potential impairment.

This step involves calculating an implied fair value of goodwill which is the excess of the fair value of the reporting unit, as determined in the first step, over the aggregate fair values of the assets, liabilities and identifiable intangibles as if the reporting unit was being acquired in a business combination. If the implied fair value of goodwill exceeds the goodwill assigned to the reporting unit, there is no impairment. If the goodwill assigned to a reporting unit exceeds the implied fair value of goodwill, an impairment charge is recorded for the excess. An impairment loss recognized cannot exceed the amount of goodwill assigned to a reporting unit. An impairment loss establishes a new basis in the goodwill, and subsequent reversals of goodwill impairment losses are not permitted under applicable accounting guidance.

For intangible assets subject to amortization, an impairment loss is recognized if the carrying value of the intangible asset is not recoverable and exceeds fair value. The carrying value of the intangible asset is considered not recoverable if it exceeds the sum of the undiscounted cash flows expected to result from the use of the asset. Intangible assets deemed to have indefinite useful lives are not subject to amortization. An impairment loss is recognized if the carrying value of the intangible asset with an indefinite life exceeds its fair value.

Variable Interest Entities

A VIE is an entity that lacks equity investors or whose equity investors do not have a controlling financial interest in the entity through their equity investments. The Corporation consolidates a VIE if it has both the power to direct the activities of the VIE that most significantly impact the VIE's economic performance and an obligation to absorb losses or the right to receive benefits that could potentially be significant to the VIE. On a quarterly basis, the Corporation reassesses its involvement with the VIE and evaluates the impact of changes in governing documents and its financial interests in the VIE. The consolidation status of the VIEs with which the Corporation is involved may change as a result of such reassessments.

The Corporation primarily uses VIEs for its securitization activities, in which the Corporation transfers whole loans or debt securities into a trust or other vehicle. When the Corporation is the servicer of whole loans held in a securitization trust, including non-agency residential mortgages, home equity loans, credit cards, and other loans, the Corporation has the power to direct the most

significant activities of the trust. The Corporation generally does not have the power to direct the most significant activities of a residential mortgage agency trust except in certain circumstances in which the Corporation holds substantially all of the issued securities and has the unilateral right to liquidate the trust. The power to direct the most significant activities of a commercial mortgage securitization trust is typically held by the special servicer or by the party holding specific subordinate securities which embody certain controlling rights. The Corporation consolidates a whole-loan securitization trust if it has the power to direct the most significant activities and also holds securities issued by the trust or has other contractual arrangements, other than standard representations and warranties, that could potentially be significant to the trust.

The Corporation may also transfer trading account securities and AFS securities into municipal bond or resecuritization trusts. The Corporation consolidates a municipal bond or resecuritization trust if it has control over the ongoing activities of the trust such as the remarketing of the trust's liabilities or, if there are no ongoing activities, sole discretion over the design of the trust, including the identification of securities to be transferred in and the structure of securities to be issued, and also retains securities or has liquidity or other commitments that could potentially be significant to the trust. The Corporation does not consolidate a municipal bond or resecuritization trust if one or a limited number of third-party investors share responsibility for the design of the trust or have control over the significant activities of the trust through liquidation or other substantive rights.

Other VIEs used by the Corporation include collateralized debt obligations (CDOs), investment vehicles created on behalf of customers and other investment vehicles. The Corporation does not routinely serve as collateral manager for CDOs and, therefore, does not typically have the power to direct the activities that most significantly impact the economic performance of a CDO. However, following an event of default, if the Corporation is a majority holder of senior securities issued by a CDO and acquires the power to manage its assets, the Corporation consolidates the CDO.

The Corporation consolidates a customer or other investment vehicle if it has control over the initial design of the vehicle or manages the assets in the vehicle and also absorbs potentially significant gains or losses through an investment in the vehicle, derivative contracts or other arrangements. The Corporation does not consolidate an investment vehicle if a single investor controlled the initial design of the vehicle or manages the assets in the vehicles or if the Corporation does not have a variable interest that could potentially be significant to the vehicle.

Retained interests in securitized assets are initially recorded at fair value. In addition, the Corporation may invest in debt securities issued by unconsolidated VIEs. Fair values of these debt securities, which are classified as trading account assets, debt securities carried at fair value or HTM securities, are based primarily on quoted market prices in active or inactive markets. Generally, quoted market prices for retained residual interests are not available; therefore, the Corporation estimates fair values based on the present value of the associated expected future cash flows.

Fair Value

The Corporation measures the fair values of its assets and liabilities, where applicable, in accordance with accounting guidance that requires an entity to base fair value on exit price. Under this guidance, an entity is required to maximize the use of observable inputs and minimize the use of unobservable inputs in measuring fair value. Under applicable accounting standards, fair value measurements are categorized into one of three levels

based on the inputs to the valuation technique with the highest priority given to unadjusted quoted prices in active markets and the lowest priority given to unobservable inputs. The Corporation categorizes its fair value measurements of financial instruments based on this three-level hierarchy.

Level 1 Unadjusted quoted prices in active markets for identical assets or liabilities. Level 1 assets and liabilities include debt and equity securities and derivative contracts that are traded in an active exchange market, as well as certain U.S. Treasury securities that are highly liquid and are actively traded in OTC markets.

Level 2 Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities. Level 2 assets and liabilities include debt securities with quoted prices that are traded less frequently than exchange-traded instruments and derivative contracts where fair value is determined using a pricing model with inputs that are observable in the market or can be derived principally from or corroborated by observable market data. This category generally includes U.S. government and agency mortgage-backed (MBS) and asset-backed securities (ABS), corporate debt securities, derivative contracts, certain loans and LHFS.

Level 3 Unobservable inputs that are supported by little or no market activity and that are significant to the overall fair value of the assets or liabilities. Level 3 assets and liabilities include financial instruments for which the determination of fair value requires significant management judgment or estimation. The fair value for such assets and liabilities is generally determined using pricing models, discounted cash flow methodologies or similar techniques that incorporate the assumptions a market participant would use in pricing the asset or liability. This category generally includes retained residual interests in securitizations, consumer MSR, certain ABS, highly structured, complex or long-dated derivative contracts, certain loans and LHFS, IRLCs and certain CDOs where independent pricing information cannot be obtained for a significant portion of the underlying assets.

Income Taxes

There are two components of income tax expense: current and deferred. Current income tax expense reflects taxes to be paid or refunded for the current period. Deferred income tax expense results from changes in deferred tax assets and liabilities between periods. These gross deferred tax assets and liabilities represent decreases or increases in taxes expected to be paid in the future because of future reversals of temporary differences in the bases of assets and liabilities as measured by tax laws and their bases as reported in the financial statements. Deferred tax assets are also recognized for tax attributes such as net operating loss carryforwards and tax credit carryforwards. Valuation allowances are recorded to reduce deferred tax assets to the amounts management concludes are more likely than not to be realized.

Income tax benefits are recognized and measured based upon a two-step model: first, a tax position must be more likely than not to be sustained based solely on its technical merits in order to be recognized, and second, the benefit is measured as the largest dollar amount of that position that is more likely than not to be sustained upon settlement. The difference between the benefit

recognized and the tax benefit claimed on a tax return is referred to as an unrecognized tax benefit. The Corporation records income tax-related interest and penalties, if applicable, within income tax expense.

Revenue Recognition

The following summarizes the Corporation's revenue recognition accounting policies for certain noninterest income activities.

Card Income

Card income includes annual, late and over-limit fees as well as fees earned from interchange, cash advances and other miscellaneous transactions and is presented net of direct costs. Interchange fees are recognized upon settlement of the credit and debit card payment transactions and are generally determined on a percentage basis for credit cards and fixed rates for debit cards based on the corresponding payment network's rates. Substantially all card fees are recognized at the transaction date, except for certain time-based fees such as annual fees, which are recognized over 12 months. Fees charged to cardholders that are estimated to be uncollectible are reserved in the allowance for loan and lease losses. Included in direct cost are rewards and credit card partner payments. Rewards paid to cardholders are related to points earned by the cardholder that can be redeemed for a broad range of rewards including cash, travel and gift cards. The points to be redeemed are estimated based on past redemption behavior, card product type, account transaction activity and other historical card performance. The liability is reduced as the points are redeemed. The Corporation also makes payments to credit card partners. The payments are based on revenue-sharing agreements that are generally driven by cardholder transactions and partner sales volumes. As part of the revenue-sharing agreements, the credit card partner provides the Corporation exclusive rights to market to the credit card partner's members or customers on behalf of the Corporation.

Service Charges

Service charges include deposit and lending-related fees. Deposit-related fees consist of fees earned on consumer and commercial deposit activities and are generally recognized when the transactions occur or as the service is performed. Consumer fees are earned on consumer deposit accounts for account maintenance and various transaction-based services, such as ATM transactions, wire transfer activities, check and money order processing and insufficient funds/overdraft transactions. Commercial deposit-related fees are from the Corporation's Global Transaction Services business and consist of commercial deposit and treasury management services, including account maintenance and other services, such as payroll, sweep account and other cash management services. Lending-related fees generally represent transactional fees earned from certain loan commitments, financial guarantees and SBLCs.

Investment and Brokerage Services

Investment and brokerage services consist of asset management and brokerage fees. Asset management fees are earned from the management of client assets under advisory agreements or the full discretion of the Corporation's financial advisors (collectively referred to as assets under management (AUM)). Asset management fees are earned as a percentage of the client's AUM and generally range from 50 basis points (bps) to 150 bps of the AUM. In cases where a third party is used to obtain a client's investment allocation, the fee remitted to the third party is recorded net and is not reflected in the transaction price, as the Corporation is an agent for those services.

Brokerage fees include income earned from transaction-based services that are performed as part of investment management services and are based on a fixed price per unit or as a percentage of the total transaction amount. Brokerage fees also include distribution fees and sales commissions that are primarily in the *Global Wealth & Investment Management (GWIM)* segment and are earned over time. In addition, primarily in the *Global Markets* segment, brokerage fees are earned when the Corporation fills customer orders to buy or sell various financial products or when it acknowledges, affirms, settles and clears transactions and/or submits trade information to the appropriate clearing broker. Certain customers pay brokerage, clearing and/or exchange fees imposed by relevant regulatory bodies or exchanges in order to execute or clear trades. These fees are recorded net and are not reflected in the transaction price, as the Corporation is an agent for those services.

Investment Banking Income

Investment banking income includes underwriting income and financial advisory services income. Underwriting consists of fees earned for the placement of a customer's debt or equity securities. The revenue is generally earned based on a percentage of the fixed number of shares or principal placed. Once the number of shares or notes is determined and the service is completed, the underwriting fees are recognized. The Corporation incurs certain out-of-pocket expenses, such as legal costs, in performing these services. These expenses are recovered through the revenue the Corporation earns from the customer and are included in operating expenses. Syndication fees represent fees earned as the agent or lead lender responsible for structuring, arranging and administering a loan syndication.

Financial advisory services consist of fees earned for assisting clients with transactions related to mergers and acquisitions and financial restructurings. Revenue varies depending on the size of the transaction and scope of services performed and is generally contingent on successful completion of the transaction. Revenue is typically recognized once the transaction is completed and all services have been rendered. Additionally, the Corporation may earn a fixed fee in merger and acquisition transactions to provide a fairness opinion, with the fees recognized when the opinion is delivered to the client.

Other Revenue Measurement and Recognition Policies

The Corporation did not disclose the value of any open performance obligations at December 31, 2019, as its contracts with customers generally have a fixed term that is less than one year, an open term with a cancellation period that is less than one year, or provisions that allow the Corporation to recognize revenue at the amount it has the right to invoice.

Earnings Per Common Share

Earnings per common share (EPS) is computed by dividing net income allocated to common shareholders by the weighted-average common shares outstanding, excluding unvested common shares subject to repurchase or cancellation. Net income allocated to common shareholders is net income adjusted for preferred stock dividends including dividends declared, accretion of discounts on preferred stock including accelerated accretion when preferred stock is repaid early, and cumulative dividends related to the current dividend period that have not been declared as of period end, less income allocated to participating securities. Diluted EPS is computed by dividing income allocated to common shareholders plus dividends on dilutive convertible preferred stock and preferred stock that can be tendered to exercise warrants, by the weighted-average common shares outstanding plus amounts representing the dilutive effect of stock options outstanding, restricted stock, restricted stock units (RSUs), outstanding warrants and the dilution resulting from the conversion of convertible preferred stock, if applicable.

Foreign Currency Translation

Assets, liabilities and operations of foreign branches and subsidiaries are recorded based on the functional currency of each entity. When the functional currency of a foreign operation is the local currency, the assets, liabilities and operations are translated, for consolidation purposes, from the local currency to the U.S. dollar reporting currency at period-end rates for assets and liabilities and generally at average rates for results of operations. The resulting unrealized gains and losses are reported as a component of accumulated OCI, net-of-tax. When the foreign entity's functional currency is the U.S. dollar, the resulting remeasurement gains or losses on foreign currency-denominated assets or liabilities are included in earnings.

NOTE 2 Net Interest Income and Noninterest Income

The table below presents the Corporation's net interest income and noninterest income disaggregated by revenue source for 2019, 2018 and 2017. For more information, see Note 1 – Summary of Significant Accounting Principles For a disaggregation of noninterest income by business segment and All Other, see Note 24 – Business Segment Information.

(Dollars in millions)	2019	2018	2017
Net interest income			
Interest income			
Loans and leases	\$ 43,086	\$ 40,811	\$ 36,221
Debt securities	11,806	11,724	10,471
Federal funds sold and securities borrowed or purchased under agreements to resell	4,843	3,176	2,390
Trading account assets	5,196	4,811	4,474
Other interest income	6,305	6,247	4,023
Total interest income	71,236	66,769	57,579
Interest expense			
Deposits	7,188	4,495	1,931
Short-term borrowings	7,208	5,839	3,538
Trading account liabilities	1,249	1,358	1,204
Long-term debt	6,700	6,915	5,667
Total interest expense	22,345	18,607	12,340
Net interest income	\$ 48,891	\$ 48,162	\$ 45,239
Noninterest income			
Fees and commissions			
Card income			
Interchange fees (1)	\$ 3,834	\$ 3,866	\$ 3,777
Other card income	1,963	1,958	1,899
Total card income	5,797	5,824	5,676
Service charges			
Deposit-related fees	6,588	6,667	6,708
Lending-related fees	1,086	1,100	1,110
Total service charges	7,674	7,767	7,818
Investment and brokerage services			
Asset management fees	10,241	10,189	9,310
Brokerage fees	3,661	3,971	4,526
Total investment and brokerage services	13,902	14,160	13,836
Investment banking fees			
Underwriting income	2,998	2,722	2,821
Syndication fees	1,184	1,347	1,499
Financial advisory services	1,460	1,258	1,691
Total investment banking fees	5,642	5,327	6,011
Total fees and commissions	33,015	33,078	33,341
Market making and similar activities	9,034	9,008	7,102
Other income	304	772	1,444
Total noninterest income	\$ 42,353	\$ 42,858	\$ 41,887

(1) Gross interchange fees were \$10.0 billion, \$9.5 billion and \$8.8 billion for 2019, 2018 and 2017, respectively, and are presented net of \$6.2 billion, \$5.6 billion and \$5.1 billion of expenses for rewards and partner payments for the same periods.

NOTE 3 Derivatives

Derivative Balances

Derivatives are entered into on behalf of customers, for trading or to support risk management activities. Derivatives used in risk management activities include derivatives that may or may not be designated in qualifying hedge accounting relationships. Derivatives that are not designated in qualifying hedge accounting relationships are referred to as other risk management derivatives. For more information on the Corporation's derivatives and hedging

activities, see *Note 1 – Summary of Significant Accounting Principles*. The following tables present derivative instruments included on the Consolidated Balance Sheet in derivative assets and liabilities at December 31, 2019 and 2018. Balances are presented on a gross basis, prior to the application of counterparty and cash collateral netting. Total derivative assets and liabilities are adjusted on an aggregate basis to take into consideration the effects of legally enforceable master netting agreements and have been reduced by cash collateral received or paid.

	December 31, 2019							
		Gross Derivative Assets			Gross Derivative Liabilities			
	Contract/ Notional (1)	Trading and Other Risk Management Derivatives	Qualifying Accounting Hedges	Total	Trading and Other Risk Management Derivatives	Qualifying Accounting Hedges	Total	
(Dollars in billions)								
Interest rate contracts								
Swaps	\$ 15,074.4	\$ 162.0	\$ 9.7	\$ 171.7	\$ 168.5	\$ 0.4	\$ 168.9	
Futures and forwards	3,279.8	1.0	—	1.0	1.0	—	1.0	
Written options	1,767.7	—	—	—	32.5	—	32.5	
Purchased options	1,673.6	37.4	—	37.4	—	—	—	
Foreign exchange contracts								
Swaps	1,657.7	30.3	0.7	31.0	31.7	0.9	32.6	
Spot, futures and forwards	3,792.7	35.9	0.1	36.0	38.7	0.3	39.0	
Written options	274.3	—	—	—	3.8	—	3.8	
Purchased options	261.6	4.0	—	4.0	—	—	—	
Equity contracts								
Swaps	315.0	6.5	—	6.5	8.1	—	8.1	
Futures and forwards	125.1	0.3	—	0.3	1.1	—	1.1	
Written options	731.1	—	—	—	34.6	—	34.6	
Purchased options	668.6	42.4	—	42.4	—	—	—	
Commodity contracts								
Swaps	42.0	2.1	—	2.1	4.4	—	4.4	
Futures and forwards	61.3	1.7	—	1.7	0.4	—	0.4	
Written options	33.2	—	—	—	1.4	—	1.4	
Purchased options	37.9	1.4	—	1.4	—	—	—	
Credit derivatives (2)								
Purchased credit derivatives:								
Credit default swaps	321.6	2.7	—	2.7	5.6	—	5.6	
Total return swaps/options	86.6	0.4	—	0.4	1.3	—	1.3	
Written credit derivatives:								
Credit default swaps	300.2	5.4	—	5.4	2.0	—	2.0	
Total return swaps/options	86.2	0.8	—	0.8	0.4	—	0.4	
Gross derivative assets/liabilities		\$ 334.3	\$ 10.5	\$ 344.8	\$ 335.5	\$ 1.6	\$ 337.1	
Less: Legally enforceable master netting agreements				(270.4)			(270.4)	
Less: Cash collateral received/paid				(33.9)			(28.5)	
Total derivative assets/liabilities				\$ 40.5			\$ 38.2	

(1) Represents the total contract/notional amount of derivative assets and liabilities outstanding.

(2) The net derivative asset (liability) and notional amount of written credit derivatives for which the Corporation held purchased credit derivatives with identical underlying referenced names were \$2.8 billion and \$309.7 billion at December 31, 2019.

December 31, 2018									
(Dollars in billions)	Contract/ Notional (1)	Gross Derivative Assets				Gross Derivative Liabilities			
		Trading and Other Risk Management Derivatives	Qualifying Accounting Hedges	Total	Trading and Other Risk Management Derivatives	Qualifying Accounting Hedges	Total		
Interest rate contracts									
Swaps	\$ 15,977.9	\$ 141.0	\$ 3.2	\$ 144.2	\$ 138.9	\$ 2.0	\$ 140.9		
Futures and forwards	3,656.6	4.7	—	4.7	5.0	—	5.0		
Written options	1,584.9	—	—	—	28.6	—	28.6		
Purchased options	1,614.0	30.8	—	30.8	—	—	—		
Foreign exchange contracts									
Swaps	1,704.8	38.8	1.4	40.2	42.2	2.3	44.5		
Spot, futures and forwards	4,276.0	39.8	0.4	40.2	39.3	0.3	39.6		
Written options	256.7	—	—	—	5.0	—	5.0		
Purchased options	240.4	4.6	—	4.6	—	—	—		
Equity contracts									
Swaps	253.6	7.7	—	7.7	8.4	—	8.4		
Futures and forwards	100.0	2.1	—	2.1	0.3	—	0.3		
Written options	597.1	—	—	—	27.5	—	27.5		
Purchased options	549.4	36.0	—	36.0	—	—	—		
Commodity contracts									
Swaps	43.1	2.7	—	2.7	4.5	—	4.5		
Futures and forwards	51.7	3.2	—	3.2	0.5	—	0.5		
Written options	27.5	—	—	—	2.2	—	2.2		
Purchased options	23.4	1.7	—	1.7	—	—	—		
Credit derivatives (2)									
Purchased credit derivatives:									
Credit default swaps	408.1	5.3	—	5.3	4.9	—	4.9		
Total return swaps/options	84.5	0.4	—	0.4	1.0	—	1.0		
Written credit derivatives:									
Credit default swaps	371.9	4.4	—	4.4	4.3	—	4.3		
Total return swaps/options	87.3	0.6	—	0.6	0.6	—	0.6		
Gross derivative assets/liabilities		\$ 323.8	\$ 5.0	\$ 328.8	\$ 313.2	\$ 4.6	\$ 317.8		
Less: Legally enforceable master netting agreements				(252.7)			(252.7)		
Less: Cash collateral received/paid				(32.4)			(27.2)		
Total derivative assets/liabilities				\$ 43.7			\$ 37.9		

(1) Represents the total contract/notional amount of derivative assets and liabilities outstanding.

(2) The net derivative asset (liability) and notional amount of written credit derivatives for which the Corporation held purchased credit derivatives with identical underlying referenced names were \$185 million and \$342.8 billion at December 31, 2018.

Offsetting of Derivatives

The Corporation enters into International Swaps and Derivatives Association, Inc. (ISDA) master netting agreements or similar agreements with substantially all of the Corporation's derivative counterparties. Where legally enforceable, these master netting agreements give the Corporation, in the event of default by the counterparty, the right to liquidate securities held as collateral and to offset receivables and payables with the same counterparty. For purposes of the Consolidated Balance Sheet, the Corporation offsets derivative assets and liabilities and cash collateral held with the same counterparty where it has such a legally enforceable master netting agreement.

The following table presents derivative instruments included in derivative assets and liabilities on the Consolidated Balance

Sheet at December 31, 2019 and 2018 by primary risk (e.g., interest rate risk) and the platform, where applicable, on which these derivatives are transacted. Balances are presented on a gross basis, prior to the application of counterparty and cash collateral netting. Total gross derivative assets and liabilities are adjusted on an aggregate basis to take into consideration the effects of legally enforceable master netting agreements which include reducing the balance for counterparty netting and cash collateral received or paid.

For more information on offsetting of securities financing agreements, see *Note 11 – Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash*.

Offsetting of Derivatives (1)

	Derivative Assets		Derivative Liabilities		Derivative Assets		Derivative Liabilities	
(Dollars in billions)	December 31, 2019				December 31, 2018			
Interest rate contracts								
Over-the-counter	\$	203.1	\$	196.6	\$	174.2	\$	169.4
Exchange-traded		0.1		0.1		—		—
Over-the-counter cleared		6.0		5.3		4.8		4.0
Foreign exchange contracts								
Over-the-counter		69.2		73.1		82.5		86.3
Over-the-counter cleared		0.5		0.5		0.9		0.9
Equity contracts								
Over-the-counter		21.3		17.8		24.6		14.6
Exchange-traded		26.4		22.8		16.1		15.1
Commodity contracts								
Over-the-counter		2.8		4.2		3.5		4.5
Exchange-traded		0.8		0.8		1.0		0.9
Over-the-counter cleared		—		0.1		—		—
Credit derivatives								
Over-the-counter		6.4		6.6		7.7		8.2
Over-the-counter cleared		2.5		2.2		2.5		2.3
Total gross derivative assets/liabilities, before netting								
Over-the-counter		302.8		298.3		292.5		283.0
Exchange-traded		27.3		23.7		17.1		16.0
Over-the-counter cleared		9.0		8.1		8.2		7.2
Less: Legally enforceable master netting agreements and cash collateral received/paid								
Over-the-counter		(274.7)		(269.3)		(264.4)		(259.2)
Exchange-traded		(21.5)		(21.5)		(13.5)		(13.5)
Over-the-counter cleared		(8.1)		(8.1)		(7.2)		(7.2)
Derivative assets/liabilities, after netting		34.8		31.2		32.7		26.3
Other gross derivative assets/liabilities (2)		5.7		7.0		11.0		11.6
Total derivative assets/liabilities		40.5		38.2		43.7		37.9
Less: Financial instruments collateral (3)		(14.6)		(16.1)		(16.3)		(8.6)
Total net derivative assets/liabilities	\$	25.9	\$	22.1	\$	27.4	\$	29.3

(1) OTC derivatives include bilateral transactions between the Corporation and a particular counterparty. OTC-cleared derivatives include bilateral transactions between the Corporation and a counterparty where the transaction is cleared through a clearinghouse. Exchange-traded derivatives include listed options transacted on an exchange.

(2) Consists of derivatives entered into under master netting agreements where the enforceability of these agreements is uncertain under bankruptcy laws in some countries or industries.

(3) Amounts are limited to the derivative asset/liability balance and, accordingly, do not include excess collateral received/pledged. Financial instruments collateral includes securities collateral received or pledged and cash securities held and posted at third-party custodians that are not offset on the Consolidated Balance Sheet but shown as a reduction to derive net derivative assets and liabilities.

ALM and Risk Management Derivatives

The Corporation's ALM and risk management activities include the use of derivatives to mitigate risk to the Corporation including derivatives designated in qualifying hedge accounting relationships and derivatives used in other risk management activities. Interest rate, foreign exchange, equity, commodity and credit contracts are utilized in the Corporation's ALM and risk management activities.

The Corporation maintains an overall interest rate risk management strategy that incorporates the use of interest rate contracts, which are generally non-leveraged generic interest rate and basis swaps, options, futures and forwards, to minimize significant fluctuations in earnings caused by interest rate volatility. The Corporation's goal is to manage interest rate sensitivity and volatility so that movements in interest rates do not significantly adversely affect earnings or capital. As a result of interest rate fluctuations, hedged fixed-rate assets and liabilities appreciate or depreciate in fair value. Gains or losses on the derivative instruments that are linked to the hedged fixed-rate assets and liabilities are expected to substantially offset this unrealized appreciation or depreciation.

Market risk, including interest rate risk, can be substantial in the mortgage business. Market risk in the mortgage business is the risk that values of mortgage assets or revenues will be adversely affected by changes in market conditions such as interest rate movements. To mitigate the interest rate risk in mortgage banking production income, the Corporation utilizes forward loan sale commitments and other derivative instruments, including purchased options, and certain debt securities. The

Corporation also utilizes derivatives such as interest rate options, interest rate swaps, forward settlement contracts and eurodollar futures to hedge certain market risks of MSRs.

The Corporation uses foreign exchange contracts to manage the foreign exchange risk associated with certain foreign currency-denominated assets and liabilities, as well as the Corporation's investments in non-U.S. subsidiaries. Exposure to loss on these contracts will increase or decrease over their respective lives as currency exchange and interest rates fluctuate.

The Corporation purchases credit derivatives to manage credit risk related to certain funded and unfunded credit exposures. Credit derivatives include credit default swaps (CDS), total return swaps and swaptions. These derivatives are recorded on the Consolidated Balance Sheet at fair value with changes in fair value recorded in other income.

Derivatives Designated as Accounting Hedges

The Corporation uses various types of interest rate and foreign exchange derivative contracts to protect against changes in the fair value of its assets and liabilities due to fluctuations in interest rates and exchange rates (fair value hedges). The Corporation also uses these types of contracts to protect against changes in the cash flows of its assets and liabilities, and other forecasted transactions (cash flow hedges). The Corporation hedges its net investment in consolidated non-U.S. operations determined to have functional currencies other than the U.S. dollar using forward exchange contracts and cross-currency basis swaps, and by issuing foreign currency-denominated debt (net investment hedges).

Fair Value Hedges

The table below summarizes information related to fair value hedges for 2019, 2018 and 2017.

Gains and Losses on Derivatives Designated as Fair Value Hedges

(Dollars in millions)	Derivative			Hedged Item		
	2019	2018	2017	2019	2018	2017
Interest rate risk on long-term debt ⁽¹⁾	\$ 6,113	\$ (1,538)	\$ (1,537)	\$ (6,110)	\$ 1,429	\$ 1,045
Interest rate and foreign currency risk on long-term debt ⁽²⁾	119	(1,187)	1,811	(101)	1,079	(1,767)
Interest rate risk on available-for-sale securities ⁽³⁾	(102)	(52)	(67)	98	50	35
Total	\$ 6,130	\$ (2,777)	\$ 207	\$ (6,113)	\$ 2,558	\$ (687)

(1) Amounts are recorded in interest expense in the Consolidated Statement of Income.

(2) In 2019, 2018 and 2017, the derivative amount includes gains (losses) of \$73 million, \$(116) million and \$(365) million in interest expense, \$28 million, \$(992) million and \$2.2 billion in market making and similar activities, and \$18 million and \$(79) million in accumulated OCI, respectively. Line item totals are in the Consolidated Statement of Income and in the Consolidated Balance Sheet.

(3) Amounts are recorded in interest income in the Consolidated Statement of Income.

The table below summarizes the carrying value of hedged assets and liabilities that are designated and qualifying in fair value hedging relationships along with the cumulative amount of fair value hedging adjustments included in the carrying value that have been recorded in the current hedging relationships. These fair value hedging adjustments are open basis adjustments that are not subject to amortization as long as the hedging relationship remains designated.

Designated Fair Value Hedged Assets (Liabilities)

(Dollars in millions)	Carrying Value	Cumulative Fair Value Adjustments ⁽¹⁾	Carrying Value	Cumulative Fair Value Adjustments ⁽¹⁾
	December 31, 2019		December 31, 2018	
Long-term debt ⁽²⁾	\$ (162,389)	\$ (8,685)	\$ (138,682)	\$ (2,117)
Available-for-sale debt securities ⁽²⁾	1,654	64	981	(29)

(1) For assets, increase (decrease) to carrying value and for liabilities, (increase) decrease to carrying value.

(2) At December 31, 2019 and 2018, the cumulative fair value adjustments remaining on long-term debt and AFS debt securities from discontinued hedging relationships resulted in a decrease in the related liability of \$1.3 billion and \$1.6 billion and an increase (decrease) in the related asset of \$8 million and \$(29) million, which are being amortized over the remaining contractual life of the de-designated hedged items.

Cash Flow and Net Investment Hedges

The following table summarizes certain information related to cash flow hedges and net investment hedges for 2019, 2018 and 2017. Of the \$400 million after-tax net loss (\$526 million pretax) on derivatives in accumulated OCI at December 31, 2019, \$68 million after-tax (\$90 million pretax) is expected to be reclassified into

earnings in the next 12 months. These net losses reclassified into earnings are expected to primarily reduce net interest income related to the respective hedged items. For terminated cash flow hedges, the time period over which the majority of the forecasted transactions are hedged is approximately 3 years, with a maximum length of time for certain forecasted transactions of 16 years.

Gains and Losses on Derivatives Designated as Cash Flow and Net Investment Hedges

(Dollars in millions, amounts pretax)	Gains (Losses) in Accumulated OCI on Derivatives			Gains (Losses) in Income Reclassified from Accumulated OCI		
	2019	2018	2017	2019	2018	2017
Cash flow hedges						
Interest rate risk on variable-rate assets ⁽¹⁾	\$ 671	\$ (159)	\$ (109)	\$ (104)	\$ (165)	\$ (327)
Price risk on certain compensation plans ⁽²⁾	34	4	59	(2)	27	148
Total	\$ 705	\$ (155)	\$ (50)	\$ (106)	\$ (138)	\$ (179)
Net investment hedges						
Foreign exchange risk ⁽³⁾	\$ 22	\$ 989	\$ (1,588)	\$ 366	\$ 411	\$ 1,782

(1) Amounts reclassified from accumulated OCI are recorded in interest income in the Consolidated Statement of Income.

(2) Amounts reclassified from accumulated OCI are recorded in compensation and benefits expense in the Consolidated Statement of Income.

(3) Amounts reclassified from accumulated OCI are recorded in other income in the Consolidated Statement of Income. Amounts excluded from effectiveness testing and recognized in market making and similar activities were gains of \$154 million, \$47 million and \$120 million in 2019, 2018 and 2017, respectively.

Other Risk Management Derivatives

Other risk management derivatives are used by the Corporation to reduce certain risk exposures by economically hedging various assets and liabilities. The following table presents gains (losses) on these derivatives for 2019, 2018 and 2017. These gains (losses) are largely offset by the income or expense recorded on the hedged item.

Gains and Losses on Other Risk Management Derivatives

(Dollars in millions)	2019	2018	2017
Interest rate risk on mortgage activities (1, 2)	\$ 315	\$ (107)	\$ 8
Credit risk on loans (2)	(58)	9	(6)
Interest rate and foreign currency risk on ALM activities (3)	1,112	3,278	(1,318)
Price risk on certain compensation plans (4)	943	(495)	704

(1) Primarily related to hedges of interest rate risk on MSRs and IRLCs to originate mortgage loans that will be held for sale. The net gains on IRLCs, which are not included in the table but are considered derivative instruments, were \$73 million, \$47 million and \$220 million in 2019, 2018 and 2017, respectively.

(2) Gains (losses) on these derivatives are recorded in other income.

(3) Gains (losses) on these derivatives are recorded in market making and similar activities. Prior-period amounts have been updated to conform to the current-period presentation.

(4) Gains (losses) on these derivatives are recorded in compensation and benefits expense.

Transfers of Financial Assets with Risk Retained through Derivatives

The Corporation enters into certain transactions involving the transfer of financial assets that are accounted for as sales where substantially all of the economic exposure to the transferred financial assets is retained through derivatives (e.g., interest rate and/or credit), but the Corporation does not retain control over the assets transferred. As of December 31, 2019 and 2018, the Corporation had transferred \$5.2 billion and \$5.8 billion of non-U.S. government-guaranteed MBS to a third-party trust and retained economic exposure to the transferred assets through derivative contracts. In connection with these transfers, the Corporation received gross cash proceeds of \$5.2 billion and \$5.8 billion at the transfer dates. At December 31, 2019 and 2018, the fair value of the transferred securities was \$5.3 billion and \$5.5 billion.

Sales and Trading Revenue

The Corporation enters into trading derivatives to facilitate client transactions and to manage risk exposures arising from trading account assets and liabilities. It is the Corporation's policy to include these derivative instruments in its trading activities which include derivatives and non-derivative cash instruments. The resulting risk from these derivatives is managed on a portfolio basis as part of the Corporation's *Global Markets* business segment. The related sales and trading revenue generated within *Global Markets* is recorded in various income statement line items including market making and similar activities and net interest income as well as other revenue categories.

Sales and trading revenue includes changes in the fair value and realized gains and losses on the sales of trading and other assets, net interest income, and fees primarily from commissions on equity securities. Revenue is generated by the difference in the client price for an instrument and the price at which the trading desk can execute the trade in the dealer market. For equity securities, commissions related to purchases and sales are recorded in the "Other" column in the Sales and Trading Revenue table. Changes in the fair value of these securities are included in market making and similar activities. For debt securities, revenue, with the exception of interest associated with the debt securities, is typically included in market making and similar activities. Unlike commissions for equity securities, the initial revenue related to broker-dealer services for debt securities is typically included in the pricing of the instrument rather than being charged through separate fee arrangements. Therefore, this revenue is recorded in market making and similar activities as part of the initial mark to fair value. For derivatives, the majority of revenue is included in market making and similar activities. In

transactions where the Corporation acts as agent, which include exchange-traded futures and options, fees are recorded in other income.

The following table, which includes both derivatives and non-derivative cash instruments, identifies the amounts in the respective income statement line items attributable to the Corporation's sales and trading revenue in *Global Markets*, categorized by primary risk, for 2019, 2018 and 2017. This table includes debit valuation adjustment (DVA) and funding valuation adjustment (FVA) gains (losses). *Global Markets* results in *Note 24 – Business Segment Information* are presented on a fully taxable-equivalent (FTE) basis. The table below is not presented on an FTE basis.

Sales and Trading Revenue

	Market making and similar activities	Net Interest Income	Other (1)	Total
(Dollars in millions)	2019			
Interest rate risk	\$ 916	\$ 1,831	\$ 121	\$ 2,868
Foreign exchange risk	1,300	54	43	1,397
Equity risk	3,565	(638)	1,574	4,501
Credit risk	1,158	1,800	511	3,469
Other risk	123	75	57	255
Total sales and trading revenue	\$ 7,062	\$ 3,122	\$ 2,306	\$ 12,490

	2018			
Interest rate risk	\$ 784	\$ 1,696	\$ 259	\$ 2,739
Foreign exchange risk	1,486	11	14	1,511
Equity risk	3,874	(662)	1,644	4,856
Credit risk	1,063	1,861	588	3,512
Other risk	50	202	53	305
Total sales and trading revenue	\$ 7,257	\$ 3,108	\$ 2,558	\$ 12,923

	2017			
Interest rate risk	\$ 429	\$ 1,846	\$ 248	\$ 2,523
Foreign exchange risk	1,409	12	9	1,430
Equity risk	2,598	(427)	1,904	4,075
Credit risk	1,685	1,945	578	4,208
Other risk	79	170	75	324
Total sales and trading revenue	\$ 6,200	\$ 3,546	\$ 2,814	\$ 12,560

(1) Represents amounts in investment and brokerage services and other income that are recorded in *Global Markets* and included in the definition of sales and trading revenue. Includes investment and brokerage services revenue of \$1.7 billion, \$1.7 billion and \$2.0 billion in 2019, 2018 and 2017, respectively.

Credit Derivatives

The Corporation enters into credit derivatives primarily to facilitate client transactions and to manage credit risk exposures. Credit derivatives derive value based on an underlying third-party referenced obligation or a portfolio of referenced obligations and generally require the Corporation, as the seller of credit protection, to make payments to a buyer upon the occurrence of a predefined credit event. Such credit events generally include bankruptcy of the referenced credit entity and failure to pay under the obligation, as well as acceleration of indebtedness and payment repudiation or moratorium. For credit derivatives based on a portfolio of referenced credits or credit indices, the Corporation may not be required to make payment until a specified amount of loss has occurred and/or may only be required to make payment up to a specified amount.

Credit derivatives are classified as investment and non-investment grade based on the credit quality of the underlying referenced obligation. The Corporation considers ratings of BBB- or higher as investment grade. Non-investment grade includes non-

rated credit derivative instruments. The Corporation discloses internal categorizations of investment grade and non-investment grade consistent with how risk is managed for these instruments.

Credit derivative instruments where the Corporation is the seller of credit protection and their expiration at December 31, 2019 and 2018 are summarized in the following table.

Credit Derivative Instruments

	Less than One Year	One to Three Years	Three to Five Years	Over Five Years	Total
	December 31, 2019				
	Carrying Value				
(Dollars in millions)					
Credit default swaps:					
Investment grade	\$ —	\$ 5	\$ 60	\$ 164	\$ 229
Non-investment grade	70	292	561	808	1,731
Total	70	297	621	972	1,960
Total return swaps/options:					
Investment grade	35	—	—	—	35
Non-investment grade	344	—	—	—	344
Total	379	—	—	—	379
Total credit derivatives	\$ 449	\$ 297	\$ 621	\$ 972	\$ 2,339
Credit-related notes:					
Investment grade	\$ —	\$ 3	\$ 1	\$ 639	\$ 643
Non-investment grade	6	2	1	1,125	1,134
Total credit-related notes	\$ 6	\$ 5	\$ 2	\$ 1,764	\$ 1,777
	Maximum Payout/Notional				
Credit default swaps:					
Investment grade	\$ 55,827	\$ 67,838	\$ 71,320	\$ 17,708	\$ 212,693
Non-investment grade	19,049	26,521	29,618	12,337	87,525
Total	74,876	94,359	100,938	30,045	300,218
Total return swaps/options:					
Investment grade	56,488	—	62	76	56,626
Non-investment grade	28,707	657	104	60	29,528
Total	85,195	657	166	136	86,154
Total credit derivatives	\$ 160,071	\$ 95,016	\$ 101,104	\$ 30,181	\$ 386,372
	December 31, 2018				
	Carrying Value				
Credit default swaps:					
Investment grade	\$ 2	\$ 44	\$ 436	\$ 488	\$ 970
Non-investment grade	132	636	914	1,691	3,373
Total	134	680	1,350	2,179	4,343
Total return swaps/options:					
Investment grade	105	—	—	—	105
Non-investment grade	472	21	—	—	493
Total	577	21	—	—	598
Total credit derivatives	\$ 711	\$ 701	\$ 1,350	\$ 2,179	\$ 4,941
Credit-related notes:					
Investment grade	\$ —	\$ —	\$ 4	\$ 532	\$ 536
Non-investment grade	1	1	1	1,500	1,503
Total credit-related notes	\$ 1	\$ 1	\$ 5	\$ 2,032	\$ 2,039
	Maximum Payout/Notional				
Credit default swaps:					
Investment grade	\$ 53,758	\$ 95,699	\$ 95,274	\$ 20,054	\$ 264,785
Non-investment grade	24,297	33,881	34,530	14,426	107,134
Total	78,055	129,580	129,804	34,480	371,919
Total return swaps/options:					
Investment grade	60,042	822	59	72	60,995
Non-investment grade	24,524	1,649	39	70	26,282
Total	84,566	2,471	98	142	87,277
Total credit derivatives	\$ 162,621	\$ 132,051	\$ 129,902	\$ 34,622	\$ 459,196

The notional amount represents the maximum amount payable by the Corporation for most credit derivatives. However, the Corporation does not monitor its exposure to credit derivatives based solely on the notional amount because this measure does not take into consideration the probability of occurrence. As such, the notional amount is not a reliable indicator of the Corporation's exposure to these contracts. Instead, a risk framework is used to define risk tolerances and establish limits so that certain credit risk-related losses occur within acceptable, predefined limits.

Credit-related notes in the table above include investments in securities issued by CDO, collateralized loan obligation (CLO) and credit-linked note vehicles. These instruments are primarily classified as trading securities. The carrying value of these

instruments equals the Corporation's maximum exposure to loss. The Corporation is not obligated to make any payments to the entities under the terms of the securities owned.

Credit-related Contingent Features and Collateral

The Corporation executes the majority of its derivative contracts in the OTC market with large, international financial institutions, including broker-dealers and, to a lesser degree, with a variety of non-financial companies. A significant majority of the derivative transactions are executed on a daily margin basis. Therefore, events such as a credit rating downgrade (depending on the ultimate rating level) or a breach of credit covenants would typically require an increase in the amount of collateral required of the counterparty, where applicable, and/or allow the Corporation to

take additional protective measures such as early termination of all trades. Further, as previously discussed on page 103, the Corporation enters into legally enforceable master netting agreements which reduce risk by permitting closeout and netting of transactions with the same counterparty upon the occurrence of certain events.

Certain of the Corporation's derivative contracts contain credit risk-related contingent features, primarily in the form of ISDA master netting agreements and credit support documentation that enhance the creditworthiness of these instruments compared to other obligations of the respective counterparty with whom the Corporation has transacted. These contingent features may be for the benefit of the Corporation as well as its counterparties with respect to changes in the Corporation's creditworthiness and the mark-to-market exposure under the derivative transactions. At December 31, 2019 and 2018, the Corporation held cash and securities collateral of \$84.3 billion and \$81.6 billion and posted cash and securities collateral of \$69.1 billion and \$56.5 billion in the normal course of business under derivative agreements, excluding cross-product margining agreements where clients are permitted to margin on a net basis for both derivative and secured financing arrangements.

In connection with certain OTC derivative contracts and other trading agreements, the Corporation can be required to provide additional collateral or to terminate transactions with certain counterparties in the event of a downgrade of the senior debt ratings of the Corporation or certain subsidiaries. The amount of additional collateral required depends on the contract and is usually a fixed incremental amount and/or the market value of the exposure.

At December 31, 2019, the amount of collateral, calculated based on the terms of the contracts, that the Corporation and certain subsidiaries could be required to post to counterparties but had not yet posted to counterparties was \$2.3 billion, including \$913 million for Bank of America, National Association (BANA).

Some counterparties are currently able to unilaterally terminate certain contracts, or the Corporation or certain subsidiaries may be required to take other action such as find a suitable replacement or obtain a guarantee. At December 31, 2019 and 2018, the liability recorded for these derivative contracts was not significant.

The following table presents the amount of additional collateral that would have been contractually required by derivative contracts and other trading agreements at December 31, 2019 if the rating agencies had downgraded their long-term senior debt ratings for the Corporation or certain subsidiaries by one incremental notch and by an additional second incremental notch.

Additional Collateral Required to be Posted Upon Downgrade at December 31, 2019

(Dollars in millions)	One incremental notch	Second incremental notch
Bank of America Corporation	\$ 480	\$ 491
Bank of America, N.A. and subsidiaries ⁽¹⁾	222	353

⁽¹⁾ Included in Bank of America Corporation collateral requirements in this table.

The following table presents the derivative liabilities that would be subject to unilateral termination by counterparties and the amounts of collateral that would have been contractually required at December 31, 2019 if the long-term senior debt ratings for the Corporation or certain subsidiaries had been lower by one incremental notch and by an additional second incremental notch.

Derivative Liabilities Subject to Unilateral Termination Upon Downgrade at December 31, 2019

(Dollars in millions)	One incremental notch	Second incremental notch
Derivative liabilities	\$ 57	\$ 783
Collateral posted	42	411

Valuation Adjustments on Derivatives

The Corporation records credit risk valuation adjustments on derivatives in order to properly reflect the credit quality of the counterparties and its own credit quality. The Corporation calculates valuation adjustments on derivatives based on a modeled expected exposure that incorporates current market risk factors. The exposure also takes into consideration credit mitigants such as enforceable master netting agreements and collateral. CDS spread data is used to estimate the default probabilities and severities that are applied to the exposures. Where no observable credit default data is available for counterparties, the Corporation uses proxies and other market data to estimate default probabilities and severity.

Valuation adjustments on derivatives are affected by changes in market spreads, non-credit related market factors such as interest rates and foreign exchange rates that affect the expected exposure, and other factors like changes in collateral arrangements and partial payments. Credit spreads and non-credit factors can move independently. For example, for an interest rate swap, changes in interest rates may increase the expected exposure, which would increase the counterparty credit valuation adjustment (CVA). Independently, counterparty credit spreads may tighten, which would result in an offsetting decrease to CVA.

The Corporation enters into risk management activities to offset market driven exposures. The Corporation often hedges the counterparty spread risk in CVA with CDS. The Corporation hedges other market risks in both CVA and DVA primarily with foreign exchange and interest rate swaps. In certain instances, the net-of-hedge amounts in the table below move in the same direction as the gross amount or may move in the opposite direction. This movement is a consequence of the complex interaction of the risks being hedged, resulting in limitations in the ability to perfectly hedge all of the market exposures at all times.

The table below presents CVA, DVA and FVA gains (losses) on derivatives, which are recorded in market making and similar activities, on a gross and net of hedge basis for 2019, 2018 and 2017. CVA gains reduce the cumulative CVA thereby increasing the derivative assets balance. DVA gains increase the cumulative DVA thereby decreasing the derivative liabilities balance. CVA and DVA losses have the opposite impact. FVA gains related to derivative assets reduce the cumulative FVA thereby increasing the derivative assets balance. FVA gains related to derivative liabilities increase the cumulative FVA thereby decreasing the derivative liabilities balance. FVA losses have the opposite impact.

Valuation Adjustments Gains (Losses) on Derivatives ⁽¹⁾

	Gross	Net	Gross	Net	Gross	Net
	2019		2018		2017	
Derivative assets (CVA)	\$ 72	\$ 45	\$ 77	\$ 187	\$ 330	\$ 98
Derivative assets/liabilities (FVA)	(2)	46	(15)	14	160	178
Derivative liabilities (DVA)	(147)	(135)	(19)	(55)	(324)	(281)

⁽¹⁾ At December 31, 2019, 2018 and 2017, cumulative CVA reduced the derivative assets balance by \$528 million, \$600 million and \$677 million, cumulative FVA reduced the net derivatives balance by \$153 million, \$151 million and \$136 million, and cumulative DVA reduced the derivative liabilities balance by \$285 million, \$432 million and \$450 million, respectively.

NOTE 4 Securities

The table below presents the amortized cost, gross unrealized gains and losses, and fair value of AFS debt securities, other debt securities carried at fair value and HTM debt securities at December 31, 2019 and 2018.

Debt Securities

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
December 31, 2019				
(Dollars in millions)				
Available-for-sale debt securities				
Mortgage-backed securities:				
Agency	\$ 121,698	\$ 1,013	\$ (183)	\$ 122,528
Agency-collateralized mortgage obligations	4,587	78	(24)	4,641
Commercial	14,797	249	(25)	15,021
Non-agency residential (1)	948	138	(9)	1,077
Total mortgage-backed securities	142,030	1,478	(241)	143,267
U.S. Treasury and agency securities	67,700	1,023	(195)	68,528
Non-U.S. securities	11,987	6	(2)	11,991
Other taxable securities, substantially all asset-backed securities	3,874	67	—	3,941
Total taxable securities	225,591	2,574	(438)	227,727
Tax-exempt securities	17,716	202	(6)	17,912
Total available-for-sale debt securities	243,307	2,776	(444)	245,639
Other debt securities carried at fair value (2)	10,596	255	(23)	10,828
Total debt securities carried at fair value	253,903	3,031	(467)	256,467
Held-to-maturity debt securities, substantially all U.S. agency mortgage-backed securities	215,730	4,433	(342)	219,821
Total debt securities (3, 4)	\$ 469,633	\$ 7,464	\$ (809)	\$ 476,288
December 31, 2018				
Available-for-sale debt securities				
Mortgage-backed securities:				
Agency	\$ 125,116	\$ 138	\$ (3,428)	\$ 121,826
Agency-collateralized mortgage obligations	5,621	19	(110)	5,530
Commercial	14,469	11	(402)	14,078
Non-agency residential (1)	1,792	136	(11)	1,917
Total mortgage-backed securities	146,998	304	(3,951)	143,351
U.S. Treasury and agency securities	56,239	62	(1,378)	54,923
Non-U.S. securities	9,307	5	(6)	9,306
Other taxable securities, substantially all asset-backed securities	4,387	29	(6)	4,410
Total taxable securities	216,931	400	(5,341)	211,990
Tax-exempt securities	17,349	99	(72)	17,376
Total available-for-sale debt securities	234,280	499	(5,413)	229,366
Other debt securities carried at fair value (2)	8,595	172	(32)	8,735
Total debt securities carried at fair value	242,875	671	(5,445)	238,101
Held-to-maturity debt securities, substantially all U.S. agency mortgage-backed securities	203,652	747	(3,964)	200,435
Total debt securities (3, 4)	\$ 446,527	\$ 1,418	\$ (9,409)	\$ 438,536

(1) At December 31, 2019 and 2018, the underlying collateral type included approximately 49 percent and 68 percent prime, six percent and four percent Alt-A and 45 percent and 28 percent subprime.

(2) Primarily includes non-U.S. securities used to satisfy certain international regulatory requirements. Any changes in value are reported in other income. For detail on the components, see Note 21 – Fair Value Measurements.

(3) Includes securities pledged as collateral of \$67.0 billion and \$40.6 billion at December 31, 2019 and 2018.

(4) The Corporation held debt securities from FNMA and FHLMC that each exceeded 10 percent of shareholders' equity, with an amortized cost of \$157.2 billion and \$54.1 billion, and a fair value of \$160.6 billion and \$55.1 billion at December 31, 2019, and an amortized cost of \$161.2 billion and \$52.2 billion, and a fair value of \$158.5 billion and \$51.4 billion at December 31, 2018.

At December 31, 2019, the accumulated net unrealized gain on AFS debt securities, excluding the amount related to debt securities previously transferred to held to maturity, included in accumulated OCI was \$1.8 billion, net of the related income tax expense of \$569 million. The Corporation had nonperforming AFS debt securities of \$9 million and \$11 million at December 31, 2019 and 2018.

At December 31, 2019, the Corporation held equity securities at an aggregate fair value of \$891 million and other equity securities, as valued under the measurement alternative, at cost of \$183 million, both of which are included in other assets. At December 31, 2019, the Corporation also held equity securities at fair value of \$1.0 billion included in time deposits placed and other short-term investments.

The gross realized gains and losses on sales of AFS debt securities for 2019, 2018 and 2017 are presented in the table below.

Gains and Losses on Sales of AFS Debt Securities

(Dollars in millions)	2019	2018	2017
Gross gains	\$ 336	\$ 169	\$ 352
Gross losses	(119)	(15)	(97)
Net gains on sales of AFS debt securities	\$ 217	\$ 154	\$ 255
Income tax expense attributable to realized net gains on sales of AFS debt securities	\$ 54	\$ 37	\$ 97

The table below presents the fair value and the associated gross unrealized losses on AFS debt securities and whether these securities have had gross unrealized losses for less than 12 months or for 12 months or longer at December 31, 2019 and 2018.

Temporarily Impaired and Other-than-temporarily Impaired AFS Debt Securities

	Less than Twelve Months		Twelve Months or Longer		Total	
	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
December 31, 2019						
(Dollars in millions)						
Temporarily impaired AFS debt securities						
Mortgage-backed securities:						
Agency	\$ 17,641	\$ (41)	\$ 17,238	\$ (142)	\$ 34,879	\$ (183)
Agency-collateralized mortgage obligations	255	(1)	925	(23)	1,180	(24)
Commercial	2,180	(22)	442	(3)	2,622	(25)
Non-agency residential	19	(1)	1	—	20	(1)
Total mortgage-backed securities	20,095	(65)	18,606	(168)	38,701	(233)
U.S. Treasury and agency securities	12,836	(71)	18,866	(124)	31,702	(195)
Non-U.S. securities	851	—	837	(2)	1,688	(2)
Other taxable securities, substantially all asset-backed securities	938	—	222	—	1,160	—
Total taxable securities	34,720	(136)	38,531	(294)	73,251	(430)
Tax-exempt securities	4,286	(5)	190	(1)	4,476	(6)
Total temporarily impaired AFS debt securities	39,006	(141)	38,721	(295)	77,727	(436)
Other-than-temporarily impaired AFS debt securities (1)						
Non-agency residential mortgage-backed securities	103	(5)	21	(3)	124	(8)
Total temporarily impaired and other-than-temporarily impaired AFS debt securities	\$ 39,109	\$ (146)	\$ 38,742	\$ (298)	\$ 77,851	\$ (444)
December 31, 2018						
Temporarily impaired AFS debt securities						
Mortgage-backed securities:						
Agency	\$ 14,771	\$ (49)	\$ 99,211	\$ (3,379)	\$ 113,982	\$ (3,428)
Agency-collateralized mortgage obligations	3	—	4,452	(110)	4,455	(110)
Commercial	1,344	(8)	11,991	(394)	13,335	(402)
Non-agency residential	106	(8)	49	(3)	155	(11)
Total mortgage-backed securities	16,224	(65)	115,703	(3,886)	131,927	(3,951)
U.S. Treasury and agency securities	288	(1)	51,374	(1,377)	51,662	(1,378)
Non-U.S. securities	773	(5)	21	(1)	794	(6)
Other taxable securities, substantially all asset-backed securities	183	(1)	185	(5)	368	(6)
Total taxable securities	17,468	(72)	167,283	(5,269)	184,751	(5,341)
Tax-exempt securities	232	(2)	2,148	(70)	2,380	(72)
Total temporarily impaired AFS debt securities	17,700	(74)	169,431	(5,339)	187,131	(5,413)
Other-than-temporarily impaired AFS debt securities (1)						
Non-agency residential mortgage-backed securities	131	—	3	—	134	—
Total temporarily impaired and other-than-temporarily impaired AFS debt securities	\$ 17,831	\$ (74)	\$ 169,434	\$ (5,339)	\$ 187,265	\$ (5,413)

(1) Includes other-than-temporarily impaired AFS debt securities on which an OTTI loss, primarily related to changes in interest rates, remains in accumulated OCI.

In 2019, 2018 and 2017, the Corporation had \$24 million, \$33 million and \$41 million, respectively, of credit-related OTTI losses on AFS debt securities which were recognized in other income. The amount of non-credit related OTTI losses for these AFS debt securities, which is recognized in OCI, was not significant for all periods presented.

The cumulative OTTI credit losses recognized in income on AFS debt securities that the Corporation does not intend to sell were \$85 million, \$120 million and \$274 million at December 31, 2019, 2018 and 2017, respectively.

The Corporation estimates the portion of a loss on a security that is attributable to credit using a discounted cash flow model and estimates the expected cash flows of the underlying collateral using internal credit, interest rate and prepayment risk models that incorporate management's best estimate of current key

assumptions such as default rates, loss severity and prepayment rates. Assumptions used for the underlying loans that support the MBS can vary widely from loan to loan and are influenced by such factors as loan interest rate, geographic location of the borrower, borrower characteristics and collateral type. Based on these assumptions, the Corporation then determines how the underlying collateral cash flows will be distributed to each MBS issued from the applicable special purpose entity. Expected principal and interest cash flows on an impaired AFS debt security are discounted using the effective yield of each individual impaired AFS debt security.

Significant assumptions used in estimating the expected cash flows for measuring credit losses on non-agency residential mortgage-backed securities (RMBS) were as follows at December 31, 2019.

Significant Assumptions

	Weighted average	Range (1)	
		10th Percentile (2)	90th Percentile (2)
Prepayment speed	16.6 %	5.5 %	27.8 %
Loss severity	14.7	8.0	30.7
Life default rate	11.9	1.0	36.5

(1) Represents the range of inputs/assumptions based upon the underlying collateral.

(2) The value of a variable below which the indicated percentile of observations will fall.

Annual constant prepayment speed and loss severity rates are projected considering collateral characteristics such as LTV, creditworthiness of borrowers as measured using Fair Isaac Corporation (FICO) scores, and geographic concentrations. The weighted-average severity by collateral type was 12.9 percent for prime, 11.1 percent for Alt-A and 18.8 percent for subprime at December 31, 2019. Default rates are projected by considering collateral characteristics including, but not limited to, LTV, FICO and geographic concentration. Weighted-average life default rates

by collateral type were 7.8 percent for prime, 11.6 percent for Alt-A and 13.6 percent for subprime at December 31, 2019.

The remaining contractual maturity distribution and yields of the Corporation's debt securities carried at fair value and HTM debt securities at December 31, 2019 are summarized in the table below. Actual duration and yields may differ as prepayments on the loans underlying the mortgages or other ABS are passed through to the Corporation.

Maturities of Debt Securities Carried at Fair Value and Held-to-maturity Debt Securities

(Dollars in millions)	Due in One Year or Less		Due after One Year through Five Years		Due after Five Years through Ten Years		Due after Ten Years		Total	
	Amount	Yield (1)	Amount	Yield (1)	Amount	Yield (1)	Amount	Yield (1)	Amount	Yield (1)
Amortized cost of debt securities carried at fair value										
Mortgage-backed securities:										
Agency	\$ —	—%	\$ 11	5.25 %	\$ 66	4.56 %	\$ 124,618	3.24 %	\$ 124,695	3.24 %
Agency-collateralized mortgage obligations	—	—	—	—	27	2.48	4,560	3.16	4,587	3.16
Commercial	—	—	3,806	2.37	10,136	2.57	868	2.99	14,810	2.54
Non-agency residential	—	—	—	—	12	—	2,157	9.26	2,169	9.22
Total mortgage-backed securities	—	—	3,817	2.38	10,241	2.58	132,203	3.33	146,261	3.25
U.S. Treasury and agency securities	1,350	0.92	35,544	1.67	30,789	2.25	20	2.45	67,703	1.92
Non-U.S. securities	15,648	1.17	2,598	1.03	7	4.17	96	6.74	18,349	1.18
Other taxable securities, substantially all asset-backed securities	1,189	2.80	1,650	3.02	440	3.32	595	2.91	3,874	2.97
Total taxable securities	18,187	1.26	43,609	1.74	41,477	2.34	132,914	3.34	236,187	2.70
Tax-exempt securities	2,189	1.72	7,472	2.10	4,849	2.06	3,206	2.44	17,716	2.10
Total amortized cost of debt securities carried at fair value	\$ 20,376	1.31	\$ 51,081	1.79	\$ 46,326	2.31	\$ 136,120	3.32	\$ 253,903	2.67
Amortized cost of HTM debt securities(2)	\$ 1,025	2.83	\$ 48	3.57	\$ 1,102	2.57	\$ 213,555	3.19	\$ 215,730	3.19
Debt securities carried at fair value										
Mortgage-backed securities:										
Agency	\$ —		\$ 11		\$ 71		\$ 125,449		\$ 125,531	
Agency-collateralized mortgage obligations	—		—		26		4,615		4,641	
Commercial	—		3,854		10,287		893		15,034	
Non-agency residential	—		—		25		2,386		2,411	
Total mortgage-backed securities	—		3,865		10,409		133,343		147,617	
U.S. Treasury and agency securities	1,347		35,686		31,478		20		68,531	
Non-U.S. securities	15,751		2,606		8		98		18,463	
Other taxable securities, substantially all asset-backed securities	1,196		1,687		465		596		3,944	
Total taxable securities	18,294		43,844		42,360		134,057		238,555	
Tax-exempt securities	2,192		7,509		4,976		3,235		17,912	
Total debt securities carried at fair value	\$ 20,486		\$ 51,353		\$ 47,336		\$ 137,292		\$ 256,467	
Fair value of HTM debt securities(2)	\$ 1,025		\$ 48		\$ 1,113		\$ 217,635		\$ 219,821	

(1) The weighted-average yield is computed based on a constant effective interest rate over the contractual life of each security. The average yield considers the contractual coupon and the amortization of premiums and accretion of discounts, excluding the effect of related hedging derivatives.

(2) Substantially all U.S. agency MBS.

NOTE 5 Outstanding Loans and Leases

The following tables present total outstanding loans and leases and an aging analysis for the Consumer Real Estate, Credit Card and Other Consumer, and Commercial portfolio segments, by class of financing receivables, at December 31, 2019 and 2018.

	30-59 Days Past Due (1)	60-89 Days Past Due (1)	90 Days or More Past Due (2)	Total Past Due 30 Days or More	Total Current or Less Than 30 Days Past Due (3)	Loans Accounted for Under the Fair Value Option	Total Outstandings
(Dollars in millions)							
December 31, 2019							
Consumer real estate							
Core portfolio							
Residential mortgage	\$ 1,378	\$ 261	\$ 565	\$ 2,204	\$ 223,566		\$ 225,770
Home equity	135	70	198	403	34,823		35,226
Non-core portfolio							
Residential mortgage	458	209	1,263	1,930	8,469		10,399
Home equity	34	16	72	122	4,860		4,982
Credit card and other consumer							
Credit card	564	429	1,042	2,035	95,573		97,608
Direct/Indirect consumer (4)	297	85	35	417	90,581		90,998
Other consumer	—	—	—	—	192		192
Total consumer	2,866	1,070	3,175	7,111	458,064		465,175
Consumer loans accounted for under the fair value option (5)						\$ 594	594
Total consumer loans and leases	2,866	1,070	3,175	7,111	458,064	594	465,769
Commercial							
U.S. commercial	788	279	371	1,438	305,610		307,048
Non-U.S. commercial	35	23	8	66	104,900		104,966
Commercial real estate (6)	144	19	119	282	62,407		62,689
Commercial lease financing	100	56	39	195	19,685		19,880
U.S. small business commercial	119	56	107	282	15,051		15,333
Total commercial	1,186	433	644	2,263	507,653		509,916
Commercial loans accounted for under the fair value option (5)						7,741	7,741
Total commercial loans and leases	1,186	433	644	2,263	507,653	7,741	517,657
Total loans and leases (7)	\$ 4,052	\$ 1,503	\$ 3,819	\$ 9,374	\$ 965,717	\$ 8,335	\$ 983,426
Percentage of outstandings	0.41 %	0.15 %	0.39 %	0.95 %	98.20 %	0.85 %	100.00 %

(1) Consumer real estate loans 30-59 days past due includes fully-insured loans of \$17 million and nonperforming loans of \$139 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of \$206 million and nonperforming loans of \$114 million.

(2) Consumer real estate includes fully-insured loans of \$1.1 billion.

(3) Consumer real estate includes \$856 million and direct/indirect consumer includes \$45 million of nonperforming loans.

(4) Total outstandings primarily includes auto and specialty lending loans and leases of \$50.4 billion, U.S. securities-based lending loans of \$36.7 billion and non-U.S. consumer loans of \$2.8 billion.

(5) Consumer loans accounted for under the fair value option includes residential mortgage loans of \$257 million and home equity loans of \$337 million. Commercial loans accounted for under the fair value option includes U.S. commercial loans of \$4.7 billion and non-U.S. commercial loans of \$3.1 billion. For more information, see Note 21 – Fair Value Measurements and Note 22 – Fair Value Option.

(6) Total outstandings includes U.S. commercial real estate loans of \$59.0 billion and non-U.S. commercial real estate loans of \$3.7 billion.

(7) Total outstandings includes loans and leases pledged as collateral of \$25.9 billion. The Corporation also pledged \$168.2 billion of loans with no related outstanding borrowings to secure potential borrowing capacity with the Federal Reserve Bank and Federal Home Loan Bank.

	30-59 Days Past Due (1)	60-89 Days Past Due (1)	90 Days or More Past Due (2)	Total Past Due 30 Days or More	Total Current or Less Than 30 Days Past Due (3)	Loans Accounted for Under the Fair Value Option	Total Outstandings
(Dollars in millions)	December 31, 2018						
Consumer real estate							
Core portfolio							
Residential mortgage	\$ 1,188	\$ 249	\$ 793	\$ 2,230	\$ 191,465		\$ 193,695
Home equity	200	85	387	672	39,338		40,010
Non-core portfolio							
Residential mortgage	757	309	2,201	3,267	11,595		14,862
Home equity	139	69	339	547	7,729		8,276
Credit card and other consumer							
Credit card	577	418	994	1,989	96,349		98,338
Direct/Indirect consumer (4)	317	90	40	447	90,719		91,166
Other consumer (5)	—	—	—	—	202		202
Total consumer	3,178	1,220	4,754	9,152	437,397		446,549
Consumer loans accounted for under the fair value option (6)						\$ 682	682
Total consumer loans and leases	3,178	1,220	4,754	9,152	437,397	682	447,231
Commercial							
U.S. commercial	594	232	573	1,399	297,878		299,277
Non-U.S. commercial	1	49	—	50	98,726		98,776
Commercial real estate (7)	29	16	14	59	60,786		60,845
Commercial lease financing	124	114	37	275	22,259		22,534
U.S. small business commercial	83	54	96	233	14,332		14,565
Total commercial	831	465	720	2,016	493,981		495,997
Commercial loans accounted for under the fair value option (6)						3,667	3,667
Total commercial loans and leases	831	465	720	2,016	493,981	3,667	499,664
Total loans and leases (8)	\$ 4,009	\$ 1,685	\$ 5,474	\$ 11,168	\$ 931,378	\$ 4,349	\$ 946,895
Percentage of outstandings	0.42 %	0.18 %	0.58 %	1.18 %	98.36 %	0.46 %	100.00 %

(1) Consumer real estate loans 30-59 days past due includes fully-insured loans of \$637 million and nonperforming loans of \$217 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of \$269 million and nonperforming loans of \$146 million.

(2) Consumer real estate includes fully-insured loans of \$1.9 billion.

(3) Consumer real estate includes \$1.8 billion and direct/indirect consumer includes \$53 million of nonperforming loans.

(4) Total outstandings primarily includes auto and specialty lending loans and leases of \$50.1 billion, U.S. securities-based lending loans of \$37.0 billion and non-U.S. consumer loans of \$2.9 billion.

(5) Substantially all of other consumer is consumer overdrafts.

(6) Consumer loans accounted for under the fair value option includes residential mortgage loans of \$336 million and home equity loans of \$346 million. Commercial loans accounted for under the fair value option includes U.S. commercial loans of \$2.5 billion and non-U.S. commercial loans of \$1.1 billion. For more information, see *Note 21 – Fair Value Measurements* and *Note 22 – Fair Value Option*.

(7) Total outstandings includes U.S. commercial real estate loans of \$56.6 billion and non-U.S. commercial real estate loans of \$4.2 billion.

(8) Total outstandings includes loans and leases pledged as collateral of \$36.7 billion. The Corporation also pledged \$166.1 billion of loans with no related outstanding borrowings to secure potential borrowing capacity with the Federal Reserve Bank and Federal Home Loan Bank.

The Corporation categorizes consumer real estate loans as core and non-core based on loan and customer characteristics such as origination date, product type, LTV, FICO score and delinquency status consistent with its current consumer and mortgage servicing strategy. Generally, loans that were originated after January 1, 2010, qualified under government-sponsored enterprise (GSE) underwriting guidelines, or otherwise met the Corporation's underwriting guidelines in place in 2015 are characterized as core loans. All other loans are generally characterized as non-core loans and represent runoff portfolios.

The Corporation has entered into long-term credit protection agreements with FNMA and FHLMC on loans totaling \$7.5 billion and \$6.1 billion at December 31, 2019 and 2018, providing full credit protection on residential mortgage loans that become

severely delinquent. All of these loans are individually insured and therefore the Corporation does not record an allowance for credit losses related to these loans.

During 2019, the Corporation sold \$4.7 billion of consumer real estate compared to \$11.6 billion in 2018.

Nonperforming Loans and Leases

The Corporation classifies consumer real estate loans that have been discharged in Chapter 7 bankruptcy and not reaffirmed by the borrower as TDRs, irrespective of payment history or delinquency status, even if the repayment terms for the loans have not been otherwise modified. The Corporation continues to have a lien on the underlying collateral.

The table below presents the Corporation's nonperforming loans and leases including nonperforming TDRs, and loans accruing past due 90 days or more at December 31, 2019 and 2018. Nonperforming LHFS are excluded from nonperforming loans and leases as they are recorded at either fair value or the lower of cost or fair value. For more information on the criteria for classification as nonperforming, see *Note 1 – Summary of Significant Accounting Principles*

Credit Quality

	Nonperforming Loans and Leases		Accruing Past Due 90 Days or More	
	December 31			
(Dollars in millions)	2019	2018	2019	2018
Consumer real estate				
Core portfolio				
Residential mortgage (1)	\$ 883	\$ 1,010	\$ 176	\$ 274
Home equity	363	955	—	—
Non-core portfolio				
Residential mortgage (1)	587	883	912	1,610
Home equity	173	938	—	—
Credit card and other consumer				
Credit card	n/a	n/a	1,042	994
Direct/Indirect consumer	47	56	33	38
Total consumer	2,053	3,842	2,163	2,916
Commercial				
U.S. commercial	1,094	794	106	197
Non-U.S. commercial	43	80	8	—
Commercial real estate	280	156	19	4
Commercial lease financing	32	18	20	29
U.S. small business commercial	50	54	97	84
Total commercial	1,499	1,102	250	314
Total loans and leases	\$ 3,552	\$ 4,944	\$ 2,413	\$ 3,230

(1) Residential mortgage loans in the core and non-core portfolios accruing past due 90 days or more are fully-insured loans. At December 31, 2019 and 2018, residential mortgage includes \$740 million and \$1.4 billion of loans on which interest has been curtailed by the FHA and therefore are no longer accruing interest, although principal is still insured, and \$348 million and \$498 million of loans on which interest is still accruing.

n/a = not applicable

Credit Quality Indicators

The Corporation monitors credit quality within its Consumer Real Estate, Credit Card and Other Consumer, and Commercial portfolio segments based on primary credit quality indicators. For more information on the portfolio segments, see *Note 1 – Summary of Significant Accounting Principles*. Within the Consumer Real Estate portfolio segment, the primary credit quality indicators are refreshed LTV and refreshed FICO score. Refreshed LTV measures the carrying value of the loan as a percentage of the value of the property securing the loan, refreshed quarterly. Home equity loans are evaluated using CLTV which measures the carrying value of the Corporation's loan and available line of credit combined with any outstanding senior liens against the property as a percentage of the value of the property securing the loan, refreshed quarterly. FICO score measures the creditworthiness of the borrower based on the financial obligations of the borrower and the borrower's credit history. FICO scores are typically refreshed quarterly or more frequently. Certain borrowers (e.g., borrowers that have had debts discharged in a bankruptcy proceeding) may not have their FICO

scores updated. FICO scores are also a primary credit quality indicator for the Credit Card and Other Consumer portfolio segment and the business card portfolio within U.S. small business commercial. Within the Commercial portfolio segment, loans are evaluated using the internal classifications of pass rated or reservable criticized as the primary credit quality indicators. The term reservable criticized refers to those commercial loans that are internally classified or listed by the Corporation as Special Mention, Substandard or Doubtful, which are asset quality categories defined by regulatory authorities. These assets have an elevated level of risk and may have a high probability of default or total loss. Pass rated refers to all loans not considered reservable criticized. In addition to these primary credit quality indicators, the Corporation uses other credit quality indicators for certain types of loans.

The following tables present certain credit quality indicators for the Corporation's Consumer Real Estate, Credit Card and Other Consumer, and Commercial portfolio segments, by class of financing receivables, at December 31, 2019 and 2018.

Consumer Real Estate – Credit Quality Indicators ⁽¹⁾

	Core Residential Mortgage	Non-core Residential Mortgage	Core Home Equity	Non-core Home Equity	Core Residential Mortgage	Non-core Residential Mortgage	Core Home Equity	Non-core Home Equity	
(Dollars in millions)	December 31, 2019				December 31, 2018				
Refreshed LTV									
Less than or equal to 90 percent	\$ 205,357	\$ 7,433	\$ 34,733	\$ 4,127	\$ 173,911	\$ 10,272	\$ 39,246	\$ 6,478	
Greater than 90 percent but less than or equal to 100 percent	3,100	273	226	348	2,349	533	354	715	
Greater than 100 percent	1,049	267	267	507	817	545	410	1,083	
Fully-insured loans (2)	16,264	2,426			16,618	3,512			
Total consumer real estate	\$ 225,770	\$ 10,399	\$ 35,226	\$ 4,982	\$ 193,695	\$ 14,862	\$ 40,010	\$ 8,276	
Refreshed FICO score									
Less than 620	\$ 2,127	\$ 1,230	\$ 751	\$ 541	\$ 2,125	\$ 1,974	\$ 1,064	\$ 1,503	
Greater than or equal to 620 and less than 680	4,821	1,053	1,550	800	4,538	1,719	2,008	1,720	
Greater than or equal to 680 and less than 740	26,905	1,981	6,025	1,412	23,841	3,042	7,008	2,188	
Greater than or equal to 740	175,653	3,709	26,900	2,229	146,573	4,615	29,930	2,865	
Fully-insured loans (2)	16,264	2,426			16,618	3,512			
Total consumer real estate	\$ 225,770	\$ 10,399	\$ 35,226	\$ 4,982	\$ 193,695	\$ 14,862	\$ 40,010	\$ 8,276	

(1) Excludes \$594 million and \$682 million of loans accounted for under the fair value option at December 31, 2019 and 2018.

(2) Credit quality indicators are not reported for fully-insured loans as principal repayment is insured.

Credit Card and Other Consumer – Credit Quality Indicators

	Credit Card	Direct/Indirect Consumer	Other Consumer	Credit Card	Direct/Indirect Consumer	Other Consumer
(Dollars in millions)	December 31, 2019			December 31, 2018		
Refreshed FICO score						
Less than 620	\$ 5,179	\$ 1,720		\$ 5,016	\$ 1,719	
Greater than or equal to 620 and less than 680	12,277	2,734		12,415	3,124	
Greater than or equal to 680 and less than 740	35,301	8,460		35,781	8,921	
Greater than or equal to 740	44,851	37,825		45,126	36,709	
Other internal credit metrics (1, 2)		40,259	\$ 192		40,693	\$ 202
Total credit card and other consumer	\$ 97,608	\$ 90,998	\$ 192	\$ 98,338	\$ 91,166	\$ 202

(1) Other internal credit metrics may include delinquency status, geography or other factors.

(2) Direct/indirect consumer includes \$39.6 billion and \$39.9 billion of securities-based lending which is overcollateralized and therefore has minimal credit risk at December 31, 2019 and 2018.

Commercial – Credit Quality Indicators ⁽¹⁾

	U.S. Commercial	Non-U.S. Commercial	Commercial Real Estate	Commercial Lease Financing	U.S. Small Business Commercial (2)
(Dollars in millions)	December 31, 2019				
Risk ratings					
Pass rated	\$ 299,380	\$ 104,051	\$ 61,598	\$ 19,551	\$ 231
Reservable criticized	7,668	915	1,091	329	18
Refreshed FICO score					
Less than 620					308
Greater than or equal to 620 and less than 680					756
Greater than or equal to 680 and less than 740					2,267
Greater than or equal to 740					4,607
Other internal credit metrics (3)					7,146
Total commercial	\$ 307,048	\$ 104,966	\$ 62,689	\$ 19,880	\$ 15,333
	December 31, 2018				
Risk ratings					
Pass rated	\$ 291,918	\$ 97,916	\$ 59,910	\$ 22,168	\$ 389
Reservable criticized	7,359	860	935	366	29
Refreshed FICO score					
Less than 620					264
Greater than or equal to 620 and less than 680					684
Greater than or equal to 680 and less than 740					2,072
Greater than or equal to 740					4,254
Other internal credit metrics (3)					6,873
Total commercial	\$ 299,277	\$ 98,776	\$ 60,845	\$ 22,534	\$ 14,565

(1) Excludes \$7.7 billion and \$3.7 billion of loans accounted for under the fair value option at December 31, 2019 and 2018.

(2) At December 31, 2019 and 2018, U.S. small business commercial includes \$715 million and \$731 million of criticized business card and small business loans which are evaluated using refreshed FICO scores or internal credit metrics, including delinquency status, rather than risk ratings. Refreshed FICO score and other internal credit metrics are applicable only to the U.S. small business commercial portfolio.

(3) Other internal credit metrics may include delinquency status, application scores, geography or other factors. At both December 31, 2019 and 2018, 99 percent of the balances where internal credit metrics are used were current or less than 30 days past due.

Impaired Loans and Troubled Debt Restructurings

A loan is considered impaired when, based on current information, it is probable that the Corporation will be unable to collect all amounts due from the borrower in accordance with the contractual terms of the loan. For more information, see *Note 1 – Summary of Significant Accounting Principles*.

Consumer Real Estate

Impaired consumer real estate loans within the Consumer Real Estate portfolio segment consist entirely of TDRs. Most modifications of consumer real estate loans meet the definition of TDRs when a binding offer is extended to a borrower. Modifications of consumer real estate loans are done in accordance with government programs or the Corporation's proprietary programs. These modifications are considered to be TDRs if concessions have been granted to borrowers experiencing financial difficulties. Concessions may include reductions in interest rates, capitalization of past due amounts, principal and/or interest forbearance, payment extensions, principal and/or interest forgiveness, or combinations thereof.

Prior to permanently modifying a loan, the Corporation may enter into trial modifications with certain borrowers under both government and proprietary programs. Trial modifications generally represent a three- to four-month period during which the borrower makes monthly payments under the anticipated modified payment terms. Upon successful completion of the trial period, the Corporation and the borrower enter into a permanent modification. Binding trial modifications are classified as TDRs when the trial offer is made and continue to be classified as TDRs regardless of whether the borrower enters into a permanent modification.

Consumer real estate loans of \$632 million that have been discharged in Chapter 7 bankruptcy with no change in repayment terms and not reaffirmed by the borrower were included in TDRs at December 31, 2019, of which \$101 million were classified as nonperforming and \$275 million were loans fully insured by the FHA. For more information on loans discharged in Chapter 7 bankruptcy, see *Nonperforming Loans and Leases* in this Note.

Consumer real estate TDRs are measured primarily based on the net present value of the estimated cash flows discounted at the loan's original effective interest rate. If the carrying value of a TDR exceeds this amount, a specific allowance is recorded as a component of the allowance for loan and lease losses.

Alternatively, consumer real estate TDRs that are considered to be dependent solely on the collateral for repayment (e.g., due to the lack of income verification) are measured based on the estimated fair value of the collateral and a charge-off is recorded if the carrying value exceeds the fair value of the collateral. Consumer real estate loans that reached 180 days past due prior to modification had been charged off to their net realizable value, less costs to sell, before they were modified as TDRs in accordance with established policy. Therefore, modifications of consumer real estate loans that are 180 or more days past due as TDRs do not have an impact on the allowance for loan and lease losses nor are additional charge-offs required at the time of modification. Subsequent declines in the fair value of the collateral after a loan has reached 180 days past due are recorded as charge-offs. Fully-insured loans are protected against principal loss, and therefore, the Corporation does not record an allowance for loan and lease losses on the outstanding principal balance, even after they have been modified in a TDR.

At December 31, 2019 and 2018, remaining commitments to lend additional funds to debtors whose terms have been modified in a consumer real estate TDR were not significant. Consumer real estate foreclosed properties totaled \$229 million and \$244 million at December 31, 2019 and 2018. The carrying value of consumer real estate loans, including fully-insured loans, for which formal foreclosure proceedings were in process at December 31, 2019 was \$1.6 billion. During 2019 and 2018, the Corporation reclassified \$611 million and \$670 million of consumer real estate loans to foreclosed properties or, for properties acquired upon foreclosure of certain government-guaranteed loans (principally FHA-insured loans), to other assets. The reclassifications represent non-cash investing activities and, accordingly, are not reflected in the Consolidated Statement of Cash Flows.

The following table provides the unpaid principal balance, carrying value and related allowance at December 31, 2019 and 2018 and the average carrying value and interest income recognized in 2019, 2018 and 2017 for impaired loans in the Corporation's Consumer Real Estate portfolio segment. Certain impaired consumer real estate loans do not have a related allowance as the current valuation of these impaired loans exceeded the carrying value, which is net of previously recorded charge-offs.

Impaired Loans – Consumer Real Estate

	Unpaid Principal Balance	Carrying Value	Related Allowance	Unpaid Principal Balance	Carrying Value	Related Allowance
(Dollars in millions)	December 31, 2019			December 31, 2018		
With no recorded allowance						
Residential mortgage	\$ 4,224	\$ 3,354	\$ —	\$ 5,396	\$ 4,268	\$ —
Home equity	1,176	706	—	2,948	1,599	—
With an allowance recorded						
Residential mortgage	\$ 1,426	\$ 1,399	\$ 70	\$ 1,977	\$ 1,929	\$ 114
Home equity	543	523	69	812	760	144
Total						
Residential mortgage	\$ 5,650	\$ 4,753	\$ 70	\$ 7,373	\$ 6,197	\$ 114
Home equity	1,719	1,229	69	3,760	2,359	144
	Average Carrying Value	Interest Income Recognized (1)	Average Carrying Value	Interest Income Recognized (1)	Average Carrying Value	Interest Income Recognized (1)
	2019		2018		2017	
With no recorded allowance						
Residential mortgage	\$ 3,831	\$ 155	\$ 5,424	\$ 207	\$ 7,737	\$ 311
Home equity	1,221	76	1,894	105	1,997	109
With an allowance recorded						
Residential mortgage	\$ 1,635	\$ 62	\$ 2,409	\$ 91	\$ 3,414	\$ 123
Home equity	637	22	861	25	858	24
Total						
Residential mortgage	\$ 5,466	\$ 217	\$ 7,833	\$ 298	\$ 11,151	\$ 434
Home equity	1,858	98	2,755	130	2,855	133

(1) Interest income recognized includes interest accrued and collected on the outstanding balances of accruing impaired loans as well as interest cash collections on nonaccruing impaired loans for which the principal is considered collectible.

The table below presents the December 31, 2019, 2018 and 2017 unpaid principal balance, carrying value, and average pre- and post-modification interest rates of consumer real estate loans that were modified in TDRs during 2019, 2018 and 2017. The following Consumer Real Estate portfolio segment tables include loans that were initially classified as TDRs during the period and also loans that had previously been classified as TDRs and were modified again during the period.

Consumer Real Estate – TDRs Entered into During 2019, 2018 and 2017

	Unpaid Principal Balance	Carrying Value	Pre-Modification Interest Rate	Post-Modification Interest Rate (1)
(Dollars in millions)				
	December 31, 2019			
Residential mortgage	\$ 464	\$ 377	4.19 %	4.13 %
Home equity	141	101	5.04	4.31
Total	\$ 605	\$ 478	4.39	4.17
	December 31, 2018			
Residential mortgage	\$ 774	\$ 641	4.33 %	4.21 %
Home equity	489	358	4.46	3.74
Total	\$ 1,263	\$ 999	4.38	4.03
	December 31, 2017			
Residential mortgage	\$ 824	\$ 712	4.43 %	4.16 %
Home equity	764	590	4.22	3.49
Total	\$ 1,588	\$ 1,302	4.33	3.83

(1) The post-modification interest rate reflects the interest rate applicable only to permanently completed modifications, which exclude loans that are in a trial modification period.

The table below presents the December 31, 2019, 2018 and 2017 carrying value for consumer real estate loans that were modified in a TDR during 2019, 2018 and 2017, by type of modification.

Consumer Real Estate – Modification Programs

(Dollars in millions)	TDRs Entered into During		
	2019	2018	2017
Modifications under government programs (1)	\$ 35	\$ 61	\$ 85
Modifications under proprietary programs (1)	174	523	437
Loans discharged in Chapter 7 bankruptcy (2)	68	130	211
Trial modifications	201	285	569
Total modifications	\$ 478	\$ 999	\$ 1,302

(1) Includes other modifications such as term or payment extensions and repayment plans. During 2018, this included \$198 million of modifications that met the definition of a TDR related to the 2017 hurricanes; there were no such modifications in 2019 or 2017. These modifications were written down to their net realizable value less costs to sell or were fully insured as of December 31, 2018.

(2) Includes loans discharged in Chapter 7 bankruptcy with no change in repayment terms that are classified as TDRs.

The table below presents the carrying value of consumer real estate loans that entered into payment default during 2019, 2018 and 2017 that were modified in a TDR during the 12 months preceding payment default. A payment default for consumer real estate TDRs is recognized when a borrower has missed three monthly payments (not necessarily consecutively) since modification.

Consumer Real Estate – TDRs Entering Payment Default that were Modified During the Preceding 12 Months

(Dollars in millions)	2019	2018	2017
Modifications under government programs	\$ 26	\$ 39	\$ 81
Modifications under proprietary programs	88	158	138
Loans discharged in Chapter 7 bankruptcy (1)	30	64	116
Trial modifications (2)	57	107	391
Total modifications	\$ 201	\$ 368	\$ 726

(1) Includes loans discharged in Chapter 7 bankruptcy with no change in repayment terms that are classified as TDRs.

(2) Includes trial modification offers to which the customer did not respond.

Credit Card and Other Consumer

Impaired loans within the Credit Card and Other Consumer portfolio segment consist entirely of loans that have been modified in TDRs. The Corporation seeks to assist customers that are experiencing financial difficulty by modifying loans while ensuring compliance with federal and local laws and guidelines. Credit card and other consumer loan modifications generally involve reducing the interest rate on the account, placing the customer on a fixed payment plan not exceeding 60 months and canceling the customer's available line of credit, all of which are considered TDRs. The Corporation makes loan modifications directly with borrowers for debt held only by the Corporation (internal programs). Additionally, the Corporation makes loan modifications for borrowers working with third-party renegotiation agencies that

provide solutions to customers' entire unsecured debt structures (external programs). The Corporation classifies other secured consumer loans that have been discharged in Chapter 7 bankruptcy as TDRs which are written down to collateral value and placed on nonaccrual status no later than the time of discharge. For more information on the regulatory guidance on loans discharged in Chapter 7 bankruptcy, see Nonperforming Loans and Leases in this Note.

The following table provides the unpaid principal balance, carrying value and related allowance at December 31, 2019 and 2018 and the average carrying value for 2019, 2018 and 2017 on TDRs within the Credit Card and Other Consumer portfolio segment.

Impaired Loans – Credit Card and Other Consumer

(Dollars in millions)	December 31, 2019			December 31, 2018			Average Carrying Value (2)		
	Unpaid Principal Balance	Carrying Value (1)	Related Allowance	Unpaid Principal Balance	Carrying Value (1)	Related Allowance	2019	2018	2017
With no recorded allowance									
Direct/Indirect consumer	\$ 73	\$ 32	\$ —	\$ 72	\$ 33	\$ —	\$ 33	\$ 30	\$ 21
With an allowance recorded									
Credit card (3)	\$ 633	\$ 647	\$ 188	\$ 522	\$ 533	\$ 154	\$ 594	\$ 491	\$ 511

(1) Includes accrued interest and fees.

(2) The related interest income recognized, which includes interest accrued and collected on the outstanding balances of accruing impaired loans as well as interest cash collections on nonaccruing impaired loans for which the principal was considered collectible, was not significant in 2019, 2018 and 2017.

(3) The average carrying value in 2017 includes \$47 million related to the non-U.S. credit card portfolio, which was sold in the second quarter of 2017.

The table below provides information on the Corporation's primary modification programs for the Credit Card and Other Consumer TDR portfolio as of December 31, 2019 and 2018.

Credit Card and Other Consumer – TDRs by Program Type at December 31

(Dollars in millions)	Credit Card		Direct/Indirect Consumer		Total TDRs by Program Type	
	2019	2018	2019	2018	2019	2018
Internal programs	\$ 339	\$ 259	\$ —	\$ —	\$ 339	\$ 259
External programs	308	273	—	—	308	273
Other	—	1	32	33	32	34
Total	\$ 647	\$ 533	\$ 32	\$ 33	\$ 679	\$ 566
Percent of balances current or less than 30 days past due	85%	85%	78%	81%	84%	85%

The table below provides information on the Corporation's Credit Card and Other Consumer TDR portfolio including the December 31, 2019, 2018 and 2017 unpaid principal balance, carrying value, and average pre- and post-modification interest rates of loans that were modified in TDRs during 2019, 2018 and 2017.

Credit Card and Other Consumer – TDRs Entered into During 2019, 2018 and 2017

(Dollars in millions)	Unpaid Principal Balance	Carrying Value (1)	Pre-Modification Interest Rate	Post-Modification Interest Rate
	December 31, 2019			
Credit card	\$ 340	\$ 355	19.18 %	5.35 %
Direct/Indirect consumer	40	21	5.23	5.21
Total	\$ 380	\$ 376	18.42	5.34
	December 31, 2018			
Credit card	\$ 278	\$ 292	19.49 %	5.24 %
Direct/Indirect consumer	42	23	5.10	4.95
Total	\$ 320	\$ 315	18.45	5.22
	December 31, 2017			
Credit card	\$ 203	\$ 213	18.47 %	5.32 %
Non-U.S. credit card	37	22	4.81	4.30
Total	\$ 240	\$ 235	17.17	5.22

(1) Includes accrued interest and fees.

Credit card and other consumer loans are deemed to be in payment default during the quarter in which a borrower misses the second of two consecutive payments. Payment defaults are one of the factors considered when projecting future cash flows in the calculation of the allowance for loan and lease losses for impaired credit card and other consumer loans. Based on historical experience, the Corporation estimates that 14 percent of new credit card TDRs and 20 percent of new direct/indirect consumer TDRs may be in payment default within 12 months after modification.

Commercial Loans

Impaired commercial loans include nonperforming loans and TDRs (both performing and nonperforming). Modifications of loans to commercial borrowers that are experiencing financial difficulty are designed to reduce the Corporation's loss exposure while providing the borrower with an opportunity to work through financial difficulties, often to avoid foreclosure or bankruptcy. Each modification is unique and reflects the individual circumstances of the borrower. Modifications that result in a TDR may include extensions of maturity at a concessionary (below market) rate of interest, payment forbearances or other actions designed to benefit the customer while mitigating the Corporation's risk exposure. Reductions in interest rates are rare. Instead, the interest rates are typically increased, although the increased rate may not represent a market rate of interest. Infrequently, concessions may also include principal forgiveness in connection

with foreclosure, short sale or other settlement agreements leading to termination or sale of the loan.

At the time of restructuring, the loans are remeasured to reflect the impact, if any, on projected cash flows resulting from the modified terms. If there was no forgiveness of principal and the interest rate was not decreased, the modification may have little or no impact on the allowance established for the loan. If a portion of the loan is deemed to be uncollectible, a charge-off may be recorded at the time of restructuring. Alternatively, a charge-off may have already been recorded in a previous period such that no charge-off is required at the time of modification. For more information on modifications for the U.S. small business commercial portfolio, see Credit Card and Other Consumer in this Note.

At December 31, 2019 and 2018, remaining commitments to lend additional funds to debtors whose terms have been modified in a commercial loan TDR were \$445 million and \$297 million. The balance of commercial TDRs in payment default was not significant at December 31, 2019 and 2018.

The table below provides information on impaired loans in the Commercial loan portfolio segment including the unpaid principal balance, carrying value and related allowance at December 31, 2019 and 2018, and the average carrying value for 2019, 2018 and 2017. Certain impaired commercial loans do not have a related allowance because the valuation of these impaired loans exceeded the carrying value, which is net of previously recorded charge-offs.

Impaired Loans – Commercial

	Unpaid Principal Balance			Carrying Value	Related Allowance	Unpaid Principal Balance			Carrying Value	Related Allowance	Average Carrying Value (1)							
(Dollars in millions)	December 31, 2019					December 31, 2018					2019	2018	2017					
With no recorded allowance																		
U.S. commercial	\$	534	\$	520	\$	—	\$	638	\$	616	\$	—	\$	635	\$	655	\$	772
Non-U.S. commercial		123		123		—		93		93		—		79		43		46
Commercial real estate		67		58		—		—		—		—		96		44		69
Commercial lease financing		12		12		—		—		—		—		5		3		—
With an allowance recorded																		
U.S. commercial	\$	1,776	\$	1,574	\$	216	\$	1,437	\$	1,270	\$	121	\$	1,316	\$	1,162	\$	1,260
Non-U.S. commercial		113		113		9		155		149		30		218		327		463
Commercial real estate		322		236		64		247		162		16		149		46		73
Commercial lease financing		57		51		1		71		71		—		73		42		8
U.S. small business commercial (2)		91		77		30		83		72		29		75		73		73
Total																		
U.S. commercial	\$	2,310	\$	2,094	\$	216	\$	2,075	\$	1,886	\$	121	\$	1,951	\$	1,817	\$	2,032
Non-U.S. commercial		236		236		9		248		242		30		297		370		509
Commercial real estate		389		294		64		247		162		16		245		90		142
Commercial lease financing		69		63		1		71		71		—		78		45		8
U.S. small business commercial (2)		91		77		30		83		72		29		75		73		73

(1) The related interest income recognized, which includes interest accrued and collected on the outstanding balances of accruing impaired loans as well as interest cash collections on nonaccruing impaired loans for which the principal was considered collectible, was not significant in 2019, 2018 and 2017.

(2) Includes U.S. small business commercial renegotiated TDR loans and related allowance.

Loans Held-for-sale

The Corporation had LHFS of \$9.2 billion and \$10.4 billion at December 31, 2019 and 2018. Cash and non-cash proceeds from sales and paydowns of loans originally classified as LHFS were \$30.6 billion, \$29.2 billion and \$41.3 billion for 2019, 2018 and 2017, respectively. Cash used for originations and purchases of LHFS totaled \$28.9 billion, \$28.1 billion and \$43.5 billion for 2019, 2018 and 2017, respectively.

NOTE 6 Allowance for Credit Losses

The table below summarizes the changes in the allowance for credit losses by portfolio segment for 2019, 2018 and 2017.

	Consumer Real Estate	Credit Card and Other Consumer	Commercial	Total
(Dollars in millions)	2019			
Allowance for loan and lease losses, January 1	\$ 928	\$ 3,874	\$ 4,799	\$ 9,601
Loans and leases charged off	(522)	(4,302)	(822)	(5,646)
Recoveries of loans and leases previously charged off	927	911	160	1,998
Net charge-offs	405	(3,391)	(662)	(3,648)
Provision for loan and lease losses	(680)	3,512	742	3,574
Other (1)	(107)	1	(5)	(111)
Allowance for loan and lease losses, December 31	546	3,996	4,874	9,416
Reserve for unfunded lending commitments, January 1	—	—	797	797
Provision for unfunded lending commitments	—	—	16	16
Reserve for unfunded lending commitments, December 31	—	—	813	813
Allowance for credit losses, December 31	\$ 546	\$ 3,996	\$ 5,687	\$ 10,229
	2018			
Allowance for loan and lease losses, January 1	\$ 1,720	\$ 3,663	\$ 5,010	\$ 10,393
Loans and leases charged off	(690)	(4,037)	(675)	(5,402)
Recoveries of loans and leases previously charged off	664	823	152	1,639
Net charge-offs	(26)	(3,214)	(523)	(3,763)
Provision for loan and lease losses	(492)	3,441	313	3,262
Other (1)	(274)	(16)	(1)	(291)
Allowance for loan and lease losses, December 31	928	3,874	4,799	9,601
Reserve for unfunded lending commitments, January 1	—	—	777	777
Provision for unfunded lending commitments	—	—	20	20
Reserve for unfunded lending commitments, December 31	—	—	797	797
Allowance for credit losses, December 31	\$ 928	\$ 3,874	\$ 5,596	\$ 10,398
	2017			
Allowance for loan and lease losses, January 1	\$ 2,750	\$ 3,229	\$ 5,258	\$ 11,237
Loans and leases charged off	(770)	(3,774)	(1,075)	(5,619)
Recoveries of loans and leases previously charged off	657	809	174	1,640
Net charge-offs	(113)	(2,965)	(901)	(3,979)

Provision for loan and lease losses	(710)	3,437	654	3,381
Other (1)	(207)	(38)	(1)	(246)
Allowance for loan and lease losses, December 31	1,720	3,663	5,010	10,393
Reserve for unfunded lending commitments, January 1	—	—	762	762
Provision for unfunded lending commitments	—	—	15	15
Reserve for unfunded lending commitments, December 31	—	—	777	777
Allowance for credit losses, December 31	\$ 1,720	\$ 3,663	\$ 5,787	\$ 11,170

(1) Primarily represents write-offs of purchased credit-impaired loans, the net impact of portfolio sales, and transfers to LHFS.

The table below presents the allowance and the carrying value of outstanding loans and leases by portfolio segment at December 31, 2019 and 2018.

	Consumer Real Estate	Credit Card and Other Consumer	Commercial	Total
(Dollars in millions)				
December 31, 2019				
Impaired loans and troubled debt restructurings (1)				
Allowance for loan and lease losses	\$ 139	\$ 188	\$ 320	\$ 647
Carrying value (2)	5,982	679	2,764	9,425
Allowance as a percentage of carrying value	2.32 %	27.69 %	11.58 %	6.86 %
Loans collectively evaluated for impairment				
Allowance for loan and lease losses	\$ 407	\$ 3,808	\$ 4,554	\$ 8,769
Carrying value (2, 3)	270,395	188,119	507,152	965,666
Allowance as a percentage of carrying value (3)	0.15 %	2.02 %	0.90 %	0.91 %
Total				
Allowance for loan and lease losses	\$ 546	\$ 3,996	\$ 4,874	\$ 9,416
Carrying value (2, 3)	276,377	188,798	509,916	975,091
Allowance as a percentage of carrying value (3)	0.20 %	2.12 %	0.96 %	0.97 %
December 31, 2018				
Impaired loans and troubled debt restructurings (1)				
Allowance for loan and lease losses	\$ 258	\$ 154	\$ 196	\$ 608
Carrying value (2)	8,556	566	2,433	11,555
Allowance as a percentage of carrying value	3.02 %	27.21 %	8.06 %	5.26 %
Loans collectively evaluated for impairment				
Allowance for loan and lease losses	\$ 670	\$ 3,720	\$ 4,603	\$ 8,993
Carrying value (2, 3)	248,287	189,140	493,564	930,991
Allowance as a percentage of carrying value (3)	0.27 %	1.97 %	0.93 %	0.97 %
Total				
Allowance for loan and lease losses	\$ 928	\$ 3,874	\$ 4,799	\$ 9,601
Carrying value (2, 3)	256,843	189,706	495,997	942,546
Allowance as a percentage of carrying value (3)	0.36 %	2.04 %	0.97 %	1.02 %

(1) Impaired loans include nonperforming commercial loans and leases, as well as all TDRs, including both commercial and consumer TDRs. Impaired loans exclude nonperforming consumer loans unless they are TDRs, and all consumer and commercial loans accounted for under the fair value option.

(2) Amounts are presented gross of the allowance for loan and lease losses.

(3) Outstanding loan and lease balances and ratios do not include loans accounted for under the fair value option of \$8.3 billion and \$4.3 billion at December 31, 2019 and 2018.

NOTE 7 Securitizations and Other Variable Interest Entities

The Corporation utilizes VIEs in the ordinary course of business to support its own and its customers' financing and investing needs. The Corporation routinely securitizes loans and debt securities using VIEs as a source of funding for the Corporation and as a means of transferring the economic risk of the loans or debt securities to third parties. The assets are transferred into a trust or other securitization vehicle such that the assets are legally isolated from the creditors of the Corporation and are not available to satisfy its obligations. These assets can only be used to settle obligations of the trust or other securitization vehicle. The Corporation also administers, structures or invests in other VIEs including CDOs, investment vehicles and other entities. For more information on the Corporation's use of VIEs, see *Note 1 – Summary of Significant Accounting Principles*.

The tables in this Note present the assets and liabilities of consolidated and unconsolidated VIEs at December 31, 2019 and 2018 in situations where the Corporation has continuing involvement with transferred assets or if the Corporation otherwise has a variable interest in the VIE. The tables also present the Corporation's maximum loss exposure at December 31, 2019 and 2018 resulting from its involvement with consolidated VIEs and unconsolidated VIEs in which the Corporation holds a variable interest. The Corporation's maximum loss exposure is based on the unlikely event that all of the assets in the VIEs become worthless and incorporates not only potential losses associated with assets recorded on the Consolidated Balance Sheet but also potential losses associated with off-balance sheet commitments, such as unfunded liquidity commitments and other contractual

arrangements. The Corporation's maximum loss exposure does not include losses previously recognized through write-downs of assets.

The Corporation invests in ABS issued by third-party VIEs with which it has no other form of involvement and enters into certain commercial lending arrangements that may also incorporate the use of VIEs, for example to hold collateral. These securities and loans are included in *Note 4 – Securities* or *Note 5 – Outstanding Loans and Leases*. In addition, the Corporation has used VIEs in connection with its funding activities.

The Corporation did not provide financial support to consolidated or unconsolidated VIEs during 2019, 2018 and 2017 that it was not previously contractually required to provide, nor does it intend to do so.

The Corporation had liquidity commitments, including written put options and collateral value guarantees, with certain unconsolidated VIEs of \$1.1 billion and \$218 million at December 31, 2019 and 2018.

First-lien Mortgage Securitizations

As part of its mortgage banking activities, the Corporation securitizes a portion of the first-lien residential mortgage loans it originates or purchases from third parties, generally in the form of RMBS guaranteed by GSEs, FNMA and FHLMC (collectively the GSEs), or the Government National Mortgage Association (GNMA) primarily in the case of FHA-insured and U.S. Department of Veterans Affairs (VA)-guaranteed mortgage loans. Securitization usually occurs in conjunction with or shortly after origination or purchase, and the Corporation may also securitize loans held in its residential mortgage portfolio. In addition, the Corporation may, from time to time, securitize commercial mortgages it originates

or purchases from other entities. The Corporation typically services the loans it securitizes. Further, the Corporation may retain beneficial interests in the securitization trusts including senior and subordinate securities and equity tranches issued by the trusts. Except as described in *Note 13 – Commitments and Contingencies*,

the Corporation does not provide guarantees or recourse to the securitization trusts other than standard representations and warranties.

The table below summarizes select information related to first-lien mortgage securitizations for 2019, 2018 and 2017.

First-lien Mortgage Securitizations

	Residential Mortgage - Agency			Commercial Mortgage		
	2019	2018	2017	2019	2018	2017
(Dollars in millions)						
Proceeds from loan sales ⁽¹⁾	\$ 6,858	\$ 5,801	\$ 16,161	\$ 8,661	\$ 6,991	\$ 5,887
Gains on securitizations ⁽²⁾	27	62	158	103	101	91
Repurchases from securitization trusts ⁽³⁾	881	1,485	2,713	—	—	—

(1) The Corporation transfers residential mortgage loans to securitizations sponsored primarily by the GSEs or GNMA in the normal course of business and primarily receives RMBS in exchange. Substantially all of these securities are classified as Level 2 within the fair value hierarchy and are sold shortly after receipt.

(2) A majority of the first-lien residential mortgage loans securitized are initially classified as LHFS and accounted for under the fair value option. Gains recognized on these LHFS prior to securitization, which totaled \$4 million, \$71 million and \$243 million, net of hedges, during 2019, 2018 and 2017, respectively, are not included in the table above.

(3) The Corporation may have the option to repurchase delinquent loans out of securitization trusts, which reduces the amount of servicing advances it is required to make. The Corporation may also repurchase loans from securitization trusts to perform modifications. Repurchased loans include FHA-insured mortgages collateralizing GNMA securities.

The Corporation recognizes consumer MSRMs from the sale or securitization of consumer real estate loans. The unpaid principal balance of loans serviced for investors, including residential mortgage and home equity loans, totaled \$192.1 billion and \$226.6 billion at December 31, 2019 and 2018. Servicing fee and ancillary fee income on serviced loans was \$585 million, \$710 million and \$893 million during 2019, 2018 and 2017. Servicing advances on serviced loans, including loans serviced for others and loans held for investment, were \$2.4 billion and \$3.3 billion

at December 31, 2019 and 2018. For more information on MSRMs, see *Note 21 – Fair Value Measurements*.

During 2019, the Corporation deconsolidated agency residential mortgage securitization trusts with total assets of \$1.2 billion. There were no significant deconsolidations in 2018 or 2017.

The following table summarizes select information related to first-lien mortgage securitization trusts in which the Corporation held a variable interest at December 31, 2019 and 2018.

First-lien Mortgage VIEs

	Residential Mortgage													
			Non-agency											
	Agency		Prime		Subprime		Alt-A		Commercial Mortgage					
	December 31													
(Dollars in millions)	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018		
Unconsolidated VIEs														
Maximum loss exposure (1)	\$ 12,554	\$ 16,011	\$ 340	\$ 448	\$ 1,622	\$ 1,897	\$ 98	\$ 217	\$ 1,036	\$ 767				
On-balance sheet assets														
Senior securities:														
Trading account assets	\$ 627	\$ 460	\$ 5	\$ 30	\$ 54	\$ 36	\$ 24	\$ 90	\$ 65	\$ 97				
Debt securities carried at fair value	6,392	9,381	193	246	1,178	1,470	72	125	—	—				
Held-to-maturity securities	5,535	6,170	—	—	—	—	—	—	809	528				
All other assets	—	—	2	3	49	37	2	2	38	40				
Total retained positions	\$ 12,554	\$ 16,011	\$ 200	\$ 279	\$ 1,281	\$ 1,543	\$ 98	\$ 217	\$ 912	\$ 665				
Principal balance outstanding (2)	\$ 160,226	\$ 187,512	\$ 7,268	\$ 8,954	\$ 8,594	\$ 8,719	\$ 19,878	\$ 23,467	\$ 60,129	\$ 43,593				
Consolidated VIEs														
Maximum loss exposure (1)	\$ 10,857	\$ 13,296	\$ 5	\$ 7	\$ 44	\$ —	\$ —	\$ —	\$ —	\$ 76				
On-balance sheet assets														
Trading account assets	\$ 780	\$ 1,318	\$ 116	\$ 150	\$ 149	\$ —	\$ —	\$ —	\$ —	\$ 76				
Loans and leases, net	9,917	11,858	—	—	—	—	—	—	—	—				
All other assets	161	143	—	—	—	—	—	—	—	—				
Total assets	\$ 10,858	\$ 13,319	\$ 116	\$ 150	\$ 149	\$ —	\$ —	\$ —	\$ —	\$ 76				
Total liabilities	\$ 4	\$ 26	\$ 111	\$ 143	\$ 105	\$ —	\$ —	\$ —	\$ —	\$ —				

(1) Maximum loss exposure includes obligations under loss-sharing reinsurance and other arrangements for non-agency residential mortgage and commercial mortgage securitizations, but excludes the reserve for representations and warranties obligations and corporate guarantees and also excludes servicing advances and other servicing rights and obligations. For more information, see *Note 13 – Commitments and Contingencies* and *Note 21 – Fair Value Measurements*.

(2) Principal balance outstanding includes loans where the Corporation was the transferor to securitization VIEs with which it has continuing involvement, which may include servicing the loans.

Other Asset-backed Securitizations

The following table summarizes select information related to home equity, credit card and other asset-backed VIEs in which the Corporation held a variable interest at December 31, 2019 and 2018.

Home Equity Loan, Credit Card and Other Asset-backed VIEs

	Home Equity (1)		Credit Card (2, 3)		Resecuritization Trusts		Municipal Bond Trusts	
	December 31							
(Dollars in millions)	2019	2018	2019	2018	2019	2018	2019	2018
Unconsolidated VIEs								
Maximum loss exposure	\$ 412	\$ 908	\$ —	\$ —	\$ 7,526	\$ 7,647	\$ 3,701	\$ 2,150
On-balance sheet assets								
Senior securities (4):								
Trading account assets	\$ —	\$ —	\$ —	\$ —	\$ 2,188	\$ 1,419	\$ —	\$ 26
Debt securities carried at fair value	11	27	—	—	1,126	1,337	—	—
Held-to-maturity securities	—	—	—	—	4,212	4,891	—	—
Total retained positions	\$ 11	\$ 27	\$ —	\$ —	\$ 7,526	\$ 7,647	\$ —	\$ 26
Total assets of VIEs (5)	\$ 1,023	\$ 1,813	\$ —	\$ —	\$ 21,234	\$ 16,949	\$ 4,395	\$ 2,829
Consolidated VIEs								
Maximum loss exposure	\$ 64	\$ 85	\$ 17,915	\$ 18,800	\$ 54	\$ 128	\$ 2,656	\$ 1,540
On-balance sheet assets								
Trading account assets	\$ —	\$ —	\$ —	\$ —	\$ 73	\$ 366	\$ 2,480	\$ 1,553
Loans and leases	122	133	26,985	29,906	—	—	—	—
Allowance for loan and lease losses	(2)	(5)	(800)	(901)	—	—	—	—
All other assets	3	4	119	136	—	—	176	1
Total assets	\$ 123	\$ 132	\$ 26,304	\$ 29,141	\$ 73	\$ 366	\$ 2,656	\$ 1,554
On-balance sheet liabilities								
Short-term borrowings	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 2,175	\$ 742
Long-term debt	64	55	8,372	10,321	19	238	—	12
All other liabilities	—	—	17	20	—	—	—	—
Total liabilities	\$ 64	\$ 55	\$ 8,389	\$ 10,341	\$ 19	\$ 238	\$ 2,175	\$ 754

(1) For unconsolidated home equity loan VIEs, the maximum loss exposure includes outstanding trust certificates issued by trusts in rapid amortization, net of recorded reserves. For both consolidated and unconsolidated home equity loan VIEs, the maximum loss exposure excludes the reserve for representations and warranties obligations and corporate guarantees. For more information, see Note 13 – Commitments and Contingencies.

(2) At December 31, 2019 and 2018, loans and leases in the consolidated credit card trust included \$10.5 billion and \$11.0 billion of seller's interest.

(3) At December 31, 2019 and 2018, all other assets in the consolidated credit card trust included unbilled accrued interest and fees.

(4) The retained senior securities were valued using quoted market prices or observable market inputs (Level 2 of the fair value hierarchy).

(5) Total assets of VIEs includes loans the Corporation transferred with which it has continuing involvement, which may include servicing the loan.

Home Equity Loans

The Corporation retains interests, primarily senior securities, in home equity securitization trusts to which it transferred home equity loans. In addition, the Corporation may be obligated to provide subordinate funding to the trusts during a rapid amortization event. This obligation is included in the maximum loss exposure in the table above. The charges that will ultimately be recorded as a result of the rapid amortization events depend on the undrawn portion of the home equity lines of credit (HELOCs), performance of the loans, the amount of subsequent draws and the timing of related cash flows.

Credit Card Securitizations

The Corporation securitizes originated and purchased credit card loans. The Corporation's continuing involvement with the securitization trust includes servicing the receivables, retaining an undivided interest (seller's interest) in the receivables, and holding certain retained interests including subordinate interests in accrued interest and fees on the securitized receivables.

During 2019, 2018 and 2017, new senior debt securities issued to third-party investors from the credit card securitization trust were \$1.3 billion, \$4.0 billion and \$3.1 billion, respectively.

At December 31, 2019 and 2018, the Corporation held subordinate securities issued by the credit card securitization trust with a notional principal amount of \$7.4 billion and \$7.7 billion. These securities serve as a form of credit enhancement to the senior debt securities and have a stated interest rate of zero percent. During 2019, 2018 and 2017, the credit card securitization trust issued \$202 million, \$650 million and \$500 million, respectively, of these subordinate securities.

Resecuritization Trusts

The Corporation transfers securities, typically MBS, into resecuritization VIEs at the request of customers seeking securities with specific characteristics. Generally, there are no significant ongoing activities performed in a resecuritization trust, and no single investor has the unilateral ability to liquidate the trust.

The Corporation resecuritized \$24.4 billion, \$22.8 billion and \$25.1 billion of securities during 2019, 2018 and 2017, respectively. Securities transferred into resecuritization VIEs were measured at fair value with changes in fair value recorded in market making and similar activities prior to the resecuritization and, accordingly, no gain or loss on sale was recorded. During 2019, 2018 and 2017, resecuritization proceeds included securities with an initial fair value of \$5.2 billion, \$4.1 billion and \$3.3 billion, respectively. Substantially all of the other securities received as resecuritization proceeds were classified as trading securities and were categorized as Level 2 within the fair value hierarchy.

Municipal Bond Trusts

The Corporation administers municipal bond trusts that hold highly-rated, long-term, fixed-rate municipal bonds. The trusts obtain financing by issuing floating-rate trust certificates that reprice on a weekly or other short-term basis to third-party investors.

The Corporation's liquidity commitments to unconsolidated municipal bond trusts, including those for which the Corporation was transferor, totaled \$3.7 billion and \$2.1 billion at December 31, 2019 and 2018. The weighted-average remaining life of bonds held in the trusts at December 31, 2019 was 10.0 years. There were no significant write-downs or downgrades of assets or issuers during 2019, 2018 and 2017.

Other Variable Interest Entities

The table below summarizes select information related to other VIEs in which the Corporation held a variable interest at December 31, 2019 and 2018.

Other VIEs

	Consolidated	Unconsolidated	Total	Consolidated	Unconsolidated	Total
	December 31					
	2019			2018		
(Dollars in millions)						
Maximum loss exposure	\$ 4,055	\$ 26,326	\$ 30,381	\$ 4,177	\$ 24,498	\$ 28,675
On-balance sheet assets						
Trading account assets	\$ 2,213	\$ 549	\$ 2,762	\$ 2,335	\$ 860	\$ 3,195
Debt securities carried at fair value	—	74	74	—	84	84
Loans and leases	1,810	3,214	5,024	1,949	3,940	5,889
Allowance for loan and lease losses	(2)	(38)	(40)	(2)	(30)	(32)
All other assets	81	20,547	20,628	53	18,885	18,938
Total	\$ 4,102	\$ 24,346	\$ 28,448	\$ 4,335	\$ 23,739	\$ 28,074
On-balance sheet liabilities						
Long-term debt	\$ 46	\$ —	\$ 46	\$ 152	\$ —	\$ 152
All other liabilities	2	5,087	5,089	7	4,231	4,238
Total	\$ 48	\$ 5,087	\$ 5,135	\$ 159	\$ 4,231	\$ 4,390
Total assets of VIEs	\$ 4,102	\$ 98,491	\$ 102,593	\$ 4,335	\$ 94,746	\$ 99,081

Customer VIEs

Customer VIEs include credit-linked, equity-linked and commodity-linked note VIEs, repackaging VIEs and asset acquisition VIEs, which are typically created on behalf of customers who wish to obtain market or credit exposure to a specific company, index, commodity or financial instrument.

The Corporation's maximum loss exposure to consolidated and unconsolidated customer VIEs totaled \$2.2 billion and \$2.1 billion at December 31, 2019 and 2018, including the notional amount of derivatives to which the Corporation is a counterparty, net of losses previously recorded, and the Corporation's investment, if any, in securities issued by the VIEs.

Collateralized Debt Obligation VIEs

The Corporation receives fees for structuring CDO VIEs, which hold diversified pools of fixed-income securities, typically corporate debt or ABS, which the CDO VIEs fund by issuing multiple tranches of debt and equity securities. CDOs are generally managed by third-party portfolio managers. The Corporation typically transfers assets to these CDOs, holds securities issued by the CDOs and may be a derivative counterparty to the CDOs. The Corporation's maximum loss exposure to consolidated and unconsolidated CDOs totaled \$304 million and \$421 million at December 31, 2019 and 2018.

Investment VIEs

The Corporation sponsors, invests in or provides financing, which may be in connection with the sale of assets, to a variety of investment VIEs that hold loans, real estate, debt securities or other financial instruments and are designed to provide the desired investment profile to investors or the Corporation. At December 31, 2019 and 2018, the Corporation's consolidated investment VIEs had total assets of \$104 million and \$270 million. The Corporation also held investments in unconsolidated VIEs with total assets of \$32.4 billion and \$37.7 billion at December 31, 2019 and 2018. The Corporation's maximum loss exposure associated with both consolidated and unconsolidated investment VIEs totaled \$6.4 billion and \$7.2 billion at December 31, 2019 and 2018 comprised primarily of on-balance sheet assets less non-recourse liabilities.

Leveraged Lease Trusts

The Corporation's net investment in consolidated leveraged lease trusts totaled \$1.7 billion and \$1.8 billion at December 31, 2019 and 2018. The trusts hold long-lived equipment such as rail cars, power generation and distribution equipment, and commercial aircraft. The Corporation structures the trusts and holds a significant residual interest. The net investment represents the Corporation's maximum loss exposure to the trusts in the unlikely event that the leveraged lease investments become worthless. Debt issued by the leveraged lease trusts is non-recourse to the Corporation.

Tax Credit VIEs

The Corporation holds investments in unconsolidated limited partnerships and similar entities that construct, own and operate affordable housing, wind and solar projects. An unrelated third party is typically the general partner or managing member and has control over the significant activities of the VIE. The Corporation earns a return primarily through the receipt of tax credits allocated to the projects. The maximum loss exposure included in the Other VIEs table was \$18.9 billion and \$17.0 billion at December 31, 2019 and 2018. The Corporation's risk of loss is generally mitigated by policies requiring that the project qualify for the expected tax credits prior to making its investment.

The Corporation's investments in affordable housing partnerships, which are reported in other assets on the Consolidated Balance Sheet, totaled \$10.0 billion and \$8.9 billion, including unfunded commitments to provide capital contributions of \$4.3 billion and \$3.8 billion at December 31, 2019 and 2018. The unfunded commitments are expected to be paid over the next five years. During 2019, 2018 and 2017, the Corporation recognized tax credits and other tax benefits from investments in affordable housing partnerships of \$1.0 billion, \$981 million and \$1.0 billion and reported pretax losses in other income of \$882 million, \$798 million and \$766 million, respectively. Tax credits are recognized as part of the Corporation's annual effective tax rate used to determine tax expense in a given quarter. Accordingly, the portion of a year's expected tax benefits recognized in any given quarter may differ from 25 percent. The Corporation may from time to time be asked to invest additional amounts to support a troubled affordable housing project. Such additional investments have not been and are not expected to be significant.

NOTE 8 Goodwill and Intangible Assets

Goodwill

The table below presents goodwill balances by business segment and *All Other* at December 31, 2019 and 2018. The reporting units utilized for goodwill impairment testing are the operating segments or one level below.

Goodwill

(Dollars in millions)	December 31	
	2019	2018
Consumer Banking	\$ 30,123	\$ 30,123
Global Wealth & Investment Management	9,677	9,677
Global Banking	23,923	23,923
Global Markets	5,182	5,182
All Other	46	46
Total goodwill	\$ 68,951	\$ 68,951

During 2019, the Corporation completed its annual goodwill impairment test as of June 30, 2019 using qualitative assessments for all applicable reporting units. Based on the results of the annual goodwill impairment test, the Corporation determined there was no impairment. For more information on the use of qualitative assessments, see *Note 1 – Summary of Significant Accounting Principles*.

Intangible Assets

At December 31, 2019 and 2018, the net carrying value of intangible assets was \$1.7 billion and \$1.8 billion. At December 31, 2019 and 2018, intangible assets included \$1.6 billion of intangible assets associated with trade names, substantially all of which had an indefinite life and, accordingly, are not being amortized. Amortization of intangibles expense was \$112 million, \$538 million and \$621 million for 2019, 2018 and 2017, respectively.

NOTE 9 Leases

The Corporation enters into both lessor and lessee arrangements. For more information on lease accounting, see *Note 1 – Summary of Significant Accounting Principles*, and on lease financing receivables, see *Note 5 – Outstanding Loans and Leases*.

Lessor Arrangements

The Corporation's lessor arrangements primarily consist of operating, sales-type and direct financing leases for equipment. Lease agreements may include options to renew and for the lessee to purchase the leased equipment at the end of the lease term.

At December 31, 2019, the total net investment in sales-type and direct financing leases was \$21.9 billion, comprised of \$19.3 billion in lease receivables and \$2.6 billion in unguaranteed residuals. In certain cases, the Corporation obtains third-party residual value insurance to reduce its residual asset risk. The carrying value of residual assets with third-party residual value insurance for at least a portion of the asset value was \$5.8 billion.

For 2019, total lease income was \$1.7 billion, consisting of \$797 million from sales-type and direct financing leases and \$891 million from operating leases.

Lessee Arrangements

The Corporation's lessee arrangements predominantly consist of operating leases for premises and equipment; the Corporation's

financing leases are not significant. Right-of-use assets were \$9.7 billion and lease liabilities were \$10.1 billion at December 31, 2019. The weighted-average discount rate used to calculate the present value of future minimum lease payments was four percent.

Lease terms may contain renewal and extension options and early termination features. Generally, these options do not impact the lease term because the Corporation is not reasonably certain that it will exercise the options. The weighted-average lease term was 8.2 years at December 31, 2019.

The table below provides the components of lease cost and supplemental information for 2019.

Lease Cost and Supplemental Information for 2019

(Dollars in millions)		
Operating lease cost	\$	2,085
Variable lease cost (1)		498
Total lease cost (2)	\$	2,583

Right-of-use assets obtained in exchange for new operating lease liabilities (3)	\$	931
Operating cash flows from operating leases (4)		2,009

(1) Primarily consists of payments for common area maintenance and property taxes.

(2) Amounts are recorded in occupancy and equipment expense in the Consolidated Statement of Income.

(3) Represents non-cash activity and, accordingly, is not reflected in the Consolidated Statement of Cash Flows.

(4) Represents cash paid for amounts included in the measurement of lease liabilities.

Maturity Analysis

The maturities of lessor and lessee arrangements outstanding at December 31, 2019 are presented in the table below based on undiscounted cash flows.

Maturities of Lessor and Lessee Arrangements

(Dollars in millions)	Lessor		Lessee (1)	
	Operating Leases	Sales-type and Direct Financing Leases (2)	Operating Leases	
	December 31, 2019			
2020	\$ 843	\$ 4,657	\$	1,966
2021	746	4,887		1,763
2022	651	4,259		1,502
2023	530	3,416		1,240
2024	397	1,939		1,098
Thereafter	1,057	1,910		4,225
Total undiscounted cash flows	\$ 4,224	21,068		11,794
Less: Net present value adjustment		1,756		1,701
Total (3)		\$ 19,312	\$	10,093

(1) Excludes \$1.5 billion in commitments under lessee arrangements that have not yet commenced with lease terms that will begin in 2020.

(2) Includes \$15.1 billion in commercial lease financing receivables and \$4.2 billion in direct/indirect consumer lease financing receivables.

(3) Represents lease receivables for lessor arrangements and lease liabilities for lessee arrangements.

At December 31, 2018, operating lease commitments under lessee arrangements were \$2.4 billion, \$2.2 billion, \$2.0 billion, \$1.7 billion and \$1.3 billion for 2019 through 2023, respectively, and \$6.2 billion in the aggregate for all years thereafter. These amounts include variable lease payments and commitments under leases that have not yet commenced, both of which are excluded from the lessee maturity analysis presented in the table above.

NOTE 10 Deposits

The table below presents information about the Corporation's time deposits of \$100 thousand or more at December 31, 2019 and 2018. The Corporation also had aggregate time deposits of \$15.8 billion and \$16.4 billion in denominations that met or exceeded the Federal Deposit Insurance Corporation (FDIC) insurance limit at December 31, 2019 and 2018.

Time Deposits of \$100 Thousand or More

	December 31, 2019				December 31 2018
	Three Months or Less	Over Three Months to Twelve Months	Thereafter	Total	Total
(Dollars in millions)					
U.S. certificates of deposit and other time deposits	\$ 16,115	\$ 21,351	\$ 2,273	\$ 39,739	\$ 29,505
Non-U.S. certificates of deposit and other time deposits	7,108	4,821	1,105	13,034	10,792

The scheduled contractual maturities for total time deposits at December 31, 2019 are presented in the table below.

Contractual Maturities of Total Time Deposits

(Dollars in millions)	U.S.	Non-U.S.	Total
Due in 2020	\$ 56,351	\$ 12,000	\$ 68,351
Due in 2021	3,503	101	3,604
Due in 2022	990	18	1,008
Due in 2023	280	15	295
Due in 2024	187	981	1,168
Thereafter	212	35	247
Total time deposits	\$ 61,523	\$ 13,150	\$ 74,673

NOTE 11 Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash

The table below presents federal funds sold or purchased, securities financing agreements (which include securities borrowed or purchased under agreements to resell and securities loaned or sold under agreements to repurchase) and short-term borrowings. The Corporation elects to account for certain securities financing agreements and short-term borrowings under the fair value option. For more information on the fair value option, see Note 22 – Fair Value Option.

	Amount		Rate	Amount		Rate
(Dollars in millions)	2019			2018		
Federal funds sold and securities borrowed or purchased under agreements to resell						
Average during year	\$	279,610	1.73 %	\$	251,328	1.26 %
Maximum month-end balance during year		281,684	n/a		279,350	n/a
Federal funds purchased and securities loaned or sold under agreements to repurchase						
Average during year	\$	201,797	2.31 %	\$	193,681	1.80 %
Maximum month-end balance during year		203,063	n/a		201,089	n/a
Short-term borrowings						
Average during year		24,301	2.42		36,021	2.69
Maximum month-end balance during year		36,538	n/a		52,480	n/a

n/a = not applicable

Bank of America, N.A. maintains a global program to offer up to a maximum of \$75 billion outstanding at any one time, of bank notes with fixed or floating rates and maturities of at least seven days from the date of issue. Short-term bank notes outstanding under this program totaled \$11.7 billion and \$12.1 billion at December 31, 2019 and 2018. These short-term bank notes, along with Federal Home Loan Bank advances, U.S. Treasury tax and loan notes, and term federal funds purchased, are included in short-term borrowings on the Consolidated Balance Sheet.

Offsetting of Securities Financing Agreements

The Corporation enters into securities financing agreements to accommodate customers (also referred to as "matched-book transactions"), obtain securities to cover short positions and finance inventory positions. Substantially all of the Corporation's securities financing activities are transacted under legally enforceable master repurchase agreements or legally enforceable master securities lending agreements that give the Corporation,

in the event of default by the counterparty, the right to liquidate securities held and to offset receivables and payables with the same counterparty. The Corporation offsets securities financing transactions with the same counterparty on the Consolidated Balance Sheet where it has such a legally enforceable master netting agreement and the transactions have the same maturity date.

The Securities Financing Agreements table presents securities financing agreements included on the Consolidated Balance Sheet in federal funds sold and securities borrowed or purchased under agreements to resell, and in federal funds purchased and securities loaned or sold under agreements to repurchase at December 31, 2019 and 2018. Balances are presented on a gross basis, prior to the application of counterparty netting. Gross assets and liabilities are adjusted on an aggregate basis to take into consideration the effects of legally enforceable master netting agreements. For more information on the offsetting of derivatives, see Note 3 – Derivatives.

Securities Financing Agreements

	Gross Assets/Liabilities (1)	Amounts Offset	Net Balance Sheet Amount	Financial Instruments (2)	Net Assets/Liabilities
(Dollars in millions)					
	December 31, 2019				
Securities borrowed or purchased under agreements to resell (3)	\$ 434,257	\$ (159,660)	\$ 274,597	\$ (244,486)	\$ 30,111
Securities loaned or sold under agreements to repurchase	\$ 324,769	\$ (159,660)	\$ 165,109	\$ (141,482)	\$ 23,627
Other (4)	15,346	—	15,346	(15,346)	—
Total	\$ 340,115	\$ (159,660)	\$ 180,455	\$ (156,828)	\$ 23,627
	December 31, 2018				
Securities borrowed or purchased under agreements to resell (3)	\$ 366,274	\$ (106,865)	\$ 259,409	\$ (240,790)	\$ 18,619
Securities loaned or sold under agreements to repurchase	\$ 293,853	\$ (106,865)	\$ 186,988	\$ (176,740)	\$ 10,248
Other (4)	19,906	—	19,906	(19,906)	—
Total	\$ 313,759	\$ (106,865)	\$ 206,894	\$ (196,646)	\$ 10,248

(1) Includes activity where uncertainty exists as to the enforceability of certain master netting agreements under bankruptcy laws in some countries or industries.

(2) Includes securities collateral received or pledged under repurchase or securities lending agreements where there is a legally enforceable master netting agreement. These amounts are not offset on the Consolidated Balance Sheet, but are shown as a reduction to derive a net asset or liability. Securities collateral received or pledged where the legal enforceability of the master netting agreements is uncertain is excluded from the table.

(3) Excludes repurchase activity of \$12.9 billion and \$11.5 billion reported in loans and leases on the Consolidated Balance Sheet at December 31, 2019 and 2018.

(4) Balance is reported in accrued expenses and other liabilities on the Consolidated Balance Sheet and relates to transactions where the Corporation acts as the lender in a securities lending agreement and receives securities that can be pledged as collateral or sold. In these transactions, the Corporation recognizes an asset at fair value, representing the securities received, and a liability, representing the obligation to return those securities.

Repurchase Agreements and Securities Loaned Transactions Accounted for as Secured Borrowings

The following tables present securities sold under agreements to repurchase and securities loaned by remaining contractual term to maturity and class of collateral pledged. Included in "Other" are transactions where the Corporation acts as the lender in a

securities lending agreement and receives securities that can be pledged as collateral or sold. Certain agreements contain a right to substitute collateral and/or terminate the agreement prior to maturity at the option of the Corporation or the counterparty. Such agreements are included in the table below based on the remaining contractual term to maturity.

Remaining Contractual Maturity

	Overnight and Continuous	30 Days or Less	After 30 Days Through 90 Days	Greater than 90 Days (1)	Total
(Dollars in millions)					
	December 31, 2019				
Securities sold under agreements to repurchase	\$ 129,455	\$ 122,685	\$ 25,322	\$ 21,922	\$ 299,384
Securities loaned	18,766	3,329	1,241	2,049	25,385
Other	15,346	—	—	—	15,346
Total	\$ 163,567	\$ 126,014	\$ 26,563	\$ 23,971	\$ 340,115
	December 31, 2018				
Securities sold under agreements to repurchase	\$ 139,017	\$ 81,917	\$ 34,204	\$ 21,476	\$ 276,614
Securities loaned	7,753	4,197	1,783	3,506	17,239
Other	19,906	—	—	—	19,906
Total	\$ 166,676	\$ 86,114	\$ 35,987	\$ 24,982	\$ 313,759

(1) No agreements have maturities greater than three years.

Class of Collateral Pledged

	Securities Sold Under Agreements to Repurchase	Securities Loaned	Other	Total
(Dollars in millions)				
	December 31, 2019			
U.S. government and agency securities	\$ 173,533	\$ 1	\$ —	\$ 173,534
Corporate securities, trading loans and other	10,467	2,014	258	12,739
Equity securities	14,933	20,026	15,024	49,983
Non-U.S. sovereign debt	96,576	3,344	64	99,984
Mortgage trading loans and ABS	3,875	—	—	3,875
Total	\$ 299,384	\$ 25,385	\$ 15,346	\$ 340,115
	December 31, 2018			
U.S. government and agency securities	\$ 164,664	\$ —	\$ —	\$ 164,664
Corporate securities, trading loans and other	11,400	2,163	287	13,850
Equity securities	14,090	10,869	19,572	44,531
Non-U.S. sovereign debt	81,329	4,207	47	85,583
Mortgage trading loans and ABS	5,131	—	—	5,131
Total	\$ 276,614	\$ 17,239	\$ 19,906	\$ 313,759

Under repurchase agreements, the Corporation is required to post collateral with a market value equal to or in excess of the principal amount borrowed. For securities loaned transactions, the Corporation receives collateral in the form of cash, letters of credit or other securities. To determine whether the market value of the underlying collateral remains sufficient, collateral is generally valued daily, and the Corporation may be required to deposit additional collateral or may receive or return collateral pledged when appropriate. Repurchase agreements and securities loaned transactions are generally either overnight, continuous (i.e., no stated term) or short-term. The Corporation manages liquidity risks related to these agreements by sourcing funding from a diverse

group of counterparties, providing a range of securities collateral and pursuing longer durations, when appropriate.

Restricted Cash

At December 31, 2019 and 2018, the Corporation held restricted cash included within cash and cash equivalents on the Consolidated Balance Sheet of \$24.4 billion and \$22.6 billion, predominantly related to cash held on deposit with the Federal Reserve Bank and non-U.S. central banks to meet reserve requirements and cash segregated in compliance with securities regulations.

NOTE 12 Long-term Debt

Long-term debt consists of borrowings having an original maturity of one year or more. The table below presents the balance of long-term debt at December 31, 2019 and 2018, and the related contractual rates and maturity dates as of December 31, 2019.

(Dollars in millions)	Weighted-average Rate	Interest Rates	Maturity Dates	December 31	
				2019	2018
Notes issued by Bank of America Corporation (1)					
Senior notes:					
Fixed	3.30 %	0.25 - 8.05 %	2020 - 2050	\$ 140,265	\$ 120,548
Floating	1.81	0.25 - 6.68	2020 - 2044	19,552	25,574
Senior structured notes				16,941	13,815
Subordinated notes:					
Fixed	4.89	2.94 - 8.57	2021 - 2045	21,632	20,843
Floating	2.74	2.56 - 2.89	2022 - 2026	782	1,742
Junior subordinated notes:					
Fixed	6.71	6.45 - 8.05	2027 - 2066	736	732
Floating (2)	2.71	2.71	2056	1	1
Total notes issued by Bank of America Corporation				199,909	183,255
Notes issued by Bank of America, N.A.					
Senior notes:					
Fixed	3.34	3.34	2023	508	—
Floating	2.18	1.99 - 2.51	2020 - 2041	6,519	1,770
Subordinated notes	6.00	6.00	2036	1,744	1,617
Advances from Federal Home Loan Banks:					
Fixed	4.98	0.01 - 7.72	2020 - 2034	112	130
Floating	1.79	1.77 - 1.84	2020	2,500	14,751
Securitizations and other BANA VIEs (3)				8,373	10,326
Other				402	442
Total notes issued by Bank of America, N.A.				20,158	29,036
Other debt					
Structured liabilities				20,442	16,483
Nonbank VIEs (3)				347	618
Total other debt				20,789	17,101
Total long-term debt				\$ 240,856	\$ 229,399

(1) Includes total loss-absorbing capacity compliant debt.

(2) Includes amounts related to trust preferred securities. For more information, see Trust Preferred Securities in this Note.

(3) Represents liabilities of consolidated VIEs included in total long-term debt on the Consolidated Balance Sheet.

During 2019, the Corporation issued \$52.5 billion of long-term debt consisting of \$29.3 billion of notes issued by Bank of America Corporation, \$10.9 billion of notes issued by Bank of America, N.A. and \$12.3 billion of other debt, substantially all of which was structured liabilities. During 2018, the Corporation issued \$64.4 billion of long-term debt consisting of \$30.7 billion of notes issued by Bank of America Corporation, \$18.7 billion of notes issued by Bank of America, N.A. and \$15.0 billion of other debt, substantially all of which was structured liabilities.

During 2019, the Corporation had total long-term debt maturities and redemptions in the aggregate of \$50.6 billion consisting of \$21.1 billion for Bank of America Corporation, \$19.9 billion for Bank of America, N.A. and \$9.6 billion of other debt. During 2018, the Corporation had total long-term debt maturities and redemptions in the aggregate of \$53.3 billion consisting of \$29.8 billion for Bank of America Corporation, \$11.2 billion for Bank of America, N.A. and \$12.3 billion of other debt.

Bank of America Corporation and Bank of America, N.A. maintain various U.S. and non-U.S. debt programs to offer both senior and subordinated notes. The notes may be denominated in U.S. dollars or foreign currencies. At December 31, 2019 and 2018, the amount of foreign currency-denominated debt translated into U.S. dollars included in total long-term debt was \$49.6 billion and \$48.6 billion. Foreign currency contracts may be used to convert certain foreign currency-denominated debt into U.S. dollars.

At December 31, 2019, long-term debt of consolidated VIEs in the table above included debt from credit card, residential mortgage, home equity, other VIEs and ABS of \$8.4 billion, \$217 million, \$64 million, \$46 million and \$19 million, respectively. Long-term debt of VIEs is collateralized by the assets of the VIEs. For more information, see Note 7 – Securitizations and Other Variable Interest Entities

The weighted-average effective interest rates for total long-term debt (excluding senior structured notes), total fixed-rate debt and total floating-rate debt were 3.26 percent, 3.55 percent and 1.92 percent, respectively, at December 31, 2019, and 3.29 percent, 3.66 percent and 2.26 percent, respectively, at December 31, 2018. The Corporation's ALM activities maintain an overall interest rate risk management strategy that incorporates the use of interest rate contracts to manage fluctuations in earnings that are caused by interest rate volatility. The Corporation's goal is to manage interest rate sensitivity so that movements in interest rates do not significantly adversely affect earnings and capital. The weighted-average rates are the contractual interest rates on the debt and do not reflect the impacts of derivative transactions.

Debt outstanding of \$5.7 billion at December 31, 2019 was issued by BofA Finance LLC, a 100 percent owned finance

subsidiary of Bank of America Corporation, the parent company, and is fully and unconditionally guaranteed by the parent company.

The table below shows the carrying value for aggregate annual contractual maturities of long-term debt as of December 31, 2019. Included in the table are certain structured notes issued by the Corporation that contain provisions whereby the borrowings are redeemable at the option of the holder (put options) at specified dates prior to maturity. Other structured notes have coupon or repayment terms linked to the performance of debt or equity securities, indices, currencies or commodities, and the maturity may be accelerated based on the value of a referenced index or security. In both cases, the Corporation or a subsidiary may be required to settle the obligation for cash or other securities prior to the contractual maturity date. These borrowings are reflected in the table as maturing at their contractual maturity date.

Long-term Debt by Maturity

(Dollars in millions)	2020	2021	2022	2023	2024	Thereafter	Total
Bank of America Corporation							
Senior notes	\$ 9,312	\$ 15,978	\$ 14,875	\$ 23,045	\$ 17,236	\$ 79,371	\$ 159,817
Senior structured notes	822	453	2,232	288	547	12,599	16,941
Subordinated notes	—	360	386	—	3,213	18,455	22,414
Junior subordinated notes (1)	—	—	—	—	—	737	737
Total Bank of America Corporation	10,134	16,791	17,493	23,333	20,996	111,162	199,909
Bank of America, N.A.							
Senior notes	3,000	3,499	—	509	—	19	7,027
Subordinated notes	—	—	—	—	—	1,744	1,744
Advances from Federal Home Loan Banks	2,509	2	3	1	—	97	2,612
Securitizations and other Bank VIEs (2)	3,099	4,080	1,185	9	—	—	8,373
Other	134	55	—	130	—	83	402
Total Bank of America, N.A.	8,742	7,636	1,188	649	—	1,943	20,158
Other debt							
Structured liabilities	5,275	1,884	1,057	1,372	745	10,109	20,442
Nonbank VIEs (2)	—	—	—	1	—	346	347
Total other debt	5,275	1,884	1,057	1,373	745	10,455	20,789
Total long-term debt	\$ 24,151	\$ 26,311	\$ 19,738	\$ 25,355	\$ 21,741	\$ 123,560	\$ 240,856

(1) Includes amounts related to trust preferred securities. For more information, see Trust Preferred Securities in this Note.

(2) Represents liabilities of consolidated VIEs included in total long-term debt on the Consolidated Balance Sheet.

Trust Preferred Securities

At December 31, 2019, trust preferred securities (Trust Securities) with a carrying value of \$1 million, issued by BAC Capital Trust XV (the Trust), a 100 percent owned, non-consolidated finance subsidiary of the Corporation, were issued and outstanding. The Trust Securities are mandatorily redeemable preferred security obligations of the Trust. The sole asset of the Trust is a junior subordinated deferrable interest note of the Corporation (the Note).

Periodic cash payments and payments upon liquidation or redemption with respect to Trust Securities are guaranteed by the Corporation to the extent of funds held by the Trust (the Preferred Securities Guarantee). The Preferred Securities Guarantee, when taken together with the Corporation's other obligations including its obligations under the Note, generally will constitute a full and unconditional guarantee, on a subordinated basis, by the Corporation of payments due on the Trust Securities.

NOTE 13 Commitments and Contingencies

In the normal course of business, the Corporation enters into a number of off-balance sheet commitments. These commitments expose the Corporation to varying degrees of credit and market risk and are subject to the same credit and market risk limitation

reviews as those instruments recorded on the Consolidated Balance Sheet.

Credit Extension Commitments

The Corporation enters into commitments to extend credit such as loan commitments, SBLCs and commercial letters of credit to meet the financing needs of its customers. The following table includes the notional amount of unfunded legally binding lending commitments net of amounts distributed (i.e., syndicated or participated) to other financial institutions. The distributed amounts were \$10.6 billion and \$10.7 billion at December 31, 2019 and 2018. At December 31, 2019, the carrying value of these commitments, excluding commitments accounted for under the fair value option, was \$829 million, including deferred revenue of \$16 million and a reserve for unfunded lending commitments of \$813 million. At December 31, 2018, the comparable amounts were \$813 million, \$16 million and \$797 million, respectively. The carrying value of these commitments is classified in accrued expenses and other liabilities on the Consolidated Balance Sheet.

Legally binding commitments to extend credit generally have specified rates and maturities. Certain of these commitments have adverse change clauses that help to protect the Corporation against deterioration in the borrower's ability to pay.

The table below includes the notional amount of commitments of \$4.4 billion and \$3.1 billion at December 31, 2019 and 2018 that are accounted for under the fair value option. However, the table excludes cumulative net fair value of \$90 million and \$169 million at December 31, 2019 and 2018 on these commitments,

which is classified in accrued expenses and other liabilities. For more information regarding the Corporation's loan commitments accounted for under the fair value option, see *Note 22 – Fair Value Option*.

Credit Extension Commitments

	Expire in One Year or Less		Expire After One Year Through Three Years		Expire After Three Years Through Five Years		Expire After Five Years		Total
(Dollars in millions)	December 31, 2019								
Notional amount of credit extension commitments									
Loan commitments (1)	\$	97,454	\$	148,000	\$	173,699	\$	24,487	\$ 443,640
Home equity lines of credit		1,137		1,948		6,351		34,134	43,570
Standby letters of credit and financial guarantees (2)		21,311		11,512		3,712		408	36,943
Letters of credit (3)		1,156		254		65		25	1,500
Legally binding commitments		121,058		161,714		183,827		59,054	525,653
Credit card lines (4)		376,067		—		—		—	376,067
Total credit extension commitments	\$	497,125	\$	161,714	\$	183,827	\$	59,054	\$ 901,720
December 31, 2018									
Notional amount of credit extension commitments									
Loan commitments (1)	\$	84,910	\$	142,271	\$	155,298	\$	22,683	\$ 405,162
Home equity lines of credit		2,578		2,249		3,530		34,702	43,059
Standby letters of credit and financial guarantees (2)		22,571		9,702		2,457		1,074	35,804
Letters of credit (3)		1,168		84		69		57	1,378
Legally binding commitments		111,227		154,306		161,354		58,516	485,403
Credit card lines (4)		371,658		—		—		—	371,658
Total credit extension commitments	\$	482,885	\$	154,306	\$	161,354	\$	58,516	\$ 857,061

(1) At December 31, 2019 and 2018, \$5.1 billion and \$4.3 billion of these loan commitments are held in the form of a security.

(2) The notional amounts of SBLs and financial guarantees classified as investment grade and non-investment grade based on the credit quality of the underlying reference name within the instrument were \$27.9 billion and \$8.6 billion at December 31, 2019, and \$28.3 billion and \$7.1 billion at December 31, 2018. Amounts in the table include consumer SBLs of \$413 million and \$372 million at December 31, 2019 and 2018.

(3) At December 31, 2019 and 2018, included are letters of credit of \$1.4 billion and \$422 million related to certain liquidity commitments of VIEs. For more information, see *Note 7 – Securitizations and Other Variable Interest Entities*.

(4) Includes business card unused lines of credit.

Other Commitments

At December 31, 2019 and 2018, the Corporation had commitments to purchase loans (e.g., residential mortgage and commercial real estate) of \$86 million and \$329 million, which upon settlement will be included in loans or LHFS, and commitments to purchase commercial loans of \$1.1 billion and \$463 million, which upon settlement will be included in trading account assets.

At December 31, 2019 and 2018, the Corporation had commitments to purchase commodities, primarily liquefied natural gas, of \$830 million and \$1.3 billion, which upon settlement will be included in trading account assets.

At December 31, 2019 and 2018, the Corporation had commitments to enter into resale and forward-dated resale and securities borrowing agreements of \$97.2 billion and \$59.7 billion, and commitments to enter into forward-dated repurchase and securities lending agreements of \$24.9 billion and \$21.2 billion. These commitments expire primarily within the next 12 months.

At December 31, 2019 and 2018, the Corporation had a commitment to originate or purchase up to \$3.3 billion and \$3.0 billion on a rolling 12-month basis, of auto loans and leases from a strategic partner. This commitment extends through November 2022 and can be terminated with 12 months prior notice.

Other Guarantees

Bank-owned Life Insurance Book Value Protection

The Corporation sells products that offer book value protection to insurance carriers who offer group life insurance policies to corporations, primarily banks. At December 31, 2019 and 2018, the notional amount of these guarantees totaled \$7.3 billion and

\$9.8 billion. At December 31, 2019 and 2018, the Corporation's maximum exposure related to these guarantees totaled \$1.1 billion and \$1.5 billion, with estimated maturity dates between 2033 and 2039.

Indemnifications

In the ordinary course of business, the Corporation enters into various agreements that contain indemnifications, such as tax indemnifications, whereupon payment may become due if certain external events occur, such as a change in tax law. The indemnification clauses are often standard contractual terms and were entered into in the normal course of business based on an assessment that the risk of loss would be remote. These agreements typically contain an early termination clause that permits the Corporation to exit the agreement upon these events. The maximum potential future payment under indemnification agreements is difficult to assess for several reasons, including the occurrence of an external event, the inability to predict future changes in tax and other laws, the difficulty in determining how such laws would apply to parties in contracts, the absence of exposure limits contained in standard contract language and the timing of any early termination clauses. Historically, any payments made under these guarantees have been de minimis. The Corporation has assessed the probability of making such payments in the future as remote.

Merchant Services

In accordance with credit and debit card association rules, the Corporation sponsors merchant processing servicers that process credit and debit card transactions on behalf of various merchants. If a merchant processor fails to meet its obligation regarding

disputed transactions, then the Corporation could be held liable. In 2019 and 2018, the sponsored entities processed \$916.6 billion and \$874.3 billion of transactions and recorded losses of \$24 million and \$31 million.

At December 31, 2019 and 2018, the maximum potential exposure for sponsored transactions totaled \$384.2 billion and \$348.1 billion. However, the Corporation believes that the maximum potential exposure is not representative of the actual potential loss exposure and does not expect to make material payments in connection with these guarantees.

A significant portion of the Corporation's merchant processing activity is performed by a joint venture, formed in 2009, in which the Corporation holds a 49 percent ownership interest. The carrying value of the Corporation's investment was \$640 million and \$2.8 billion at December 31, 2019 and 2018. The joint venture is accounted for as an equity method investment and reported in *All Other*. On July 29, 2019, the Corporation gave notice to the joint venture partner of the termination of the joint venture upon the conclusion of its current term in June 2020. As a result, the Corporation incurred a non-cash, pretax impairment charge in 2019 of \$2.1 billion, included in other general operating expense.

Exchange and Clearing House Member Guarantees

The Corporation is a member of various securities and derivative exchanges and clearinghouses, both in the U.S. and other countries. As a member, the Corporation may be required to pay a pro-rata share of the losses incurred by some of these organizations as a result of another member default and under other loss scenarios. The Corporation's potential obligations may be limited to its membership interests in such exchanges and clearinghouses, to the amount (or multiple) of the Corporation's contribution to the guarantee fund or, in limited instances, to the full pro-rata share of the residual losses after applying the guarantee fund. The Corporation's maximum potential exposure under these membership agreements is difficult to estimate; however, the Corporation has assessed the probability of making any such payments as remote.

Prime Brokerage and Securities Clearing Services

In connection with its prime brokerage and clearing businesses, the Corporation performs securities clearance and settlement services with other brokerage firms and clearinghouses on behalf of its clients. Under these arrangements, the Corporation stands ready to meet the obligations of its clients with respect to securities transactions. The Corporation's obligations in this respect are secured by the assets in the clients' accounts and the accounts of their customers as well as by any proceeds received from the transactions cleared and settled by the Corporation on behalf of clients or their customers. The Corporation's maximum potential exposure under these arrangements is difficult to estimate; however, the potential for the Corporation to incur material losses pursuant to these arrangements is remote.

Other Guarantees

The Corporation has entered into additional guarantee agreements and commitments, including sold risk participation swaps, liquidity facilities, lease-end obligation agreements, partial credit guarantees on certain leases, real estate joint venture guarantees, divested business commitments and sold put options that require gross settlement. The maximum potential future payments under these agreements are approximately \$8.7 billion and \$5.9 billion at December 31, 2019 and 2018. The estimated maturity dates of these obligations extend up to 2049. The Corporation has made

no material payments under these guarantees. For more information on maximum potential future payments under VIE-related liquidity commitments, see *Note 7 – Securitizations and Other Variable Interest Entities*.

During 2019, the Corporation recognized a loss of \$210 million in other income under its indemnity obligation in connection with the 2017 sale of its non-U.S. consumer credit card business (payment protection insurance).

In the normal course of business, the Corporation periodically guarantees the obligations of its affiliates in a variety of transactions including ISDA-related transactions and non-ISDA related transactions such as commodities trading, repurchase agreements, prime brokerage agreements and other transactions.

Guarantees of Certain Long-term Debt

The Corporation, as the parent company, fully and unconditionally guarantees the securities issued by BofA Finance LLC, a 100 percent owned finance subsidiary of the Corporation, and effectively provides for the full and unconditional guarantee of trust securities issued by certain statutory trust companies that are 100 percent owned finance subsidiaries of the Corporation.

Representations and Warranties Obligations and Corporate Guarantees

The Corporation securitizes first-lien residential mortgage loans generally in the form of RMBS guaranteed by the GSEs or by GNMA in the case of FHA-insured, VA-guaranteed and Rural Housing Service-guaranteed mortgage loans, and sells pools of first-lien residential mortgage loans in the form of whole loans. In addition, in prior years, legacy companies and certain subsidiaries sold pools of first-lien residential mortgage loans and home equity loans as private-label securitizations or in the form of whole loans. In connection with these transactions, the Corporation or certain of its subsidiaries or legacy companies make and have made various representations and warranties. Breaches of these representations and warranties have resulted in and may continue to result in the requirement to repurchase mortgage loans or to otherwise make whole or provide indemnification or other remedies to sponsors, investors, securitization trusts, guarantors, insurers or other parties (collectively, repurchases).

Unresolved Repurchase Claims

Unresolved representations and warranties repurchase claims represent the notional amount of repurchase claims made by counterparties, typically the outstanding principal balance or the unpaid principal balance at the time of default. In the case of first-lien mortgages, the claim amount is often significantly greater than the expected loss amount due to the benefit of collateral and, in some cases, mortgage insurance or mortgage guarantee payments.

The notional amount of unresolved repurchase claims at December 31, 2019 and 2018 was \$10.7 billion and \$14.4 billion. These balances included \$3.7 billion and \$6.2 billion at December 31, 2019 and 2018 of claims related to loans in specific private-label securitization groups or tranches where the Corporation owns substantially all of the outstanding securities or will otherwise realize the benefit of any repurchase claims paid. The balance for 2019 also includes \$1.6 billion of repurchase claims related to a single monoline insurer and is the subject of litigation.

During 2019, the Corporation received \$461 million in new repurchase claims that were not time-barred. During 2019, \$4.2 billion in claims were resolved, including \$2.1 billion of claims that were deemed time-barred.

Reserve and Related Provision

The reserve for representations and warranties obligations and corporate guarantees was \$1.8 billion and \$2.0 billion at December 31, 2019 and 2018 and is included in accrued expenses and other liabilities on the Consolidated Balance Sheet and the related provision is included in other income in the Consolidated Statement of Income. The representations and warranties reserve represents the Corporation's best estimate of probable incurred losses, is based on our experience in previous negotiations, and is subject to judgment, a variety of assumptions, and known or unknown uncertainties. Future representations and warranties losses may occur in excess of the amounts recorded for these exposures; however, the Corporation does not expect such amounts to be material to the Corporation's financial condition and liquidity. See Litigation and Regulatory Matters in this Note below for the Corporation's combined range of possible loss in excess of the reserve for representations and warranties, and the accrued liability for litigation.

Litigation and Regulatory Matters

In the ordinary course of business, the Corporation and its subsidiaries are routinely defendants in or parties to many pending and threatened legal, regulatory and governmental actions and proceedings. In view of the inherent difficulty of predicting the outcome of such matters, particularly where the claimants seek very large or indeterminate damages or where the matters present novel legal theories or involve a large number of parties, the Corporation generally cannot predict the eventual outcome of the pending matters, timing of the ultimate resolution of these matters, or eventual loss, fines or penalties related to each pending matter.

In accordance with applicable accounting guidance, the Corporation establishes an accrued liability when those matters present loss contingencies that are both probable and estimable. In such cases, there may be an exposure to loss in excess of any amounts accrued. As a matter develops, the Corporation, in conjunction with any outside counsel handling the matter, evaluates on an ongoing basis whether such matter presents a loss contingency that is probable and estimable. Once the loss contingency is deemed to be both probable and estimable, the Corporation will establish an accrued liability and record a corresponding amount of litigation-related expense. The Corporation continues to monitor the matter for further developments that could affect the amount of the accrued liability that has been previously established. Excluding expenses of internal and external legal service providers, litigation-related expense of \$681 million and \$469 million was recognized in 2019 and 2018.

For a limited number of the matters disclosed in this Note for which a loss, whether in excess of a related accrued liability or where there is no accrued liability, is reasonably possible in future periods, the Corporation is able to estimate a range of possible loss. In determining whether it is possible to estimate a range of possible loss, the Corporation reviews and evaluates its matters on an ongoing basis, in conjunction with any outside counsel handling the matter, in light of potentially relevant factual and legal developments. With respect to the matters disclosed in this Note, in cases in which the Corporation possesses sufficient appropriate information to estimate a range of possible loss, that estimate is aggregated and disclosed below. There may be other disclosed matters for which a loss is probable or reasonably possible but such an estimate of the range of possible loss may not be possible. For such matters disclosed in this Note, where an estimate of the

range of possible loss is possible, as well as for representations and warranties exposures, management currently estimates the aggregate range of reasonably possible loss for these exposures is \$0 to \$1.6 billion in excess of the accrued liability, if any.

The estimated range of possible loss, as well as the Corporation's accrued liability, is based upon currently available information and is subject to significant judgment, a variety of assumptions and known and unknown uncertainties. The matters underlying the estimated range of possible loss and liability accrual are unpredictable and will change from time to time, and actual losses may vary significantly from the current estimate and accrual. The estimated range of possible loss does not represent the Corporation's maximum loss exposure.

Information is provided below regarding the nature of the litigation and associated claimed damages. Based on current knowledge, and taking into account accrued liabilities, management does not believe that loss contingencies arising from pending matters, including the matters described herein, will have a material adverse effect on the consolidated financial condition or liquidity of the Corporation. However, in light of the significant judgment, variety of assumptions and uncertainties involved in these matters, some of which are beyond the Corporation's control, and the very large or indeterminate damages sought in some of these matters, an adverse outcome in one or more of these matters could be material to the Corporation's business or results of operations for any particular reporting period, or cause significant reputational harm.

Ambac Bond Insurance Litigation

Ambac Assurance Corporation and the Segregated Account of Ambac Assurance Corporation (together, Ambac) have filed four separate lawsuits against the Corporation and its subsidiaries relating to bond insurance policies Ambac provided on certain securitized pools of HELOCs, first-lien subprime home equity loans, fixed-rate second-lien mortgage loans and negative amortization pay option adjustable-rate mortgage loans. Ambac alleges that they have paid or will pay claims as a result of defaults in the underlying loans and asserts that the defendants misrepresented the characteristics of the underlying loans and/or breached certain contractual representations and warranties regarding the underwriting and servicing of the loans. In those actions where the Corporation is named as a defendant, Ambac contends the Corporation is liable on various successor and vicarious liability theories. These actions are at various procedural stages with material developments provided below.

Ambac v. Countrywide I

The Corporation, Countrywide and other Countrywide entities are named as defendants in an action filed on September 28, 2010 in New York Supreme Court. Ambac asserts claims for fraudulent inducement as well as breach of contract and seeks damages in excess of \$2.2 billion, plus punitive damages.

On May 16, 2017, the First Department issued its decisions on the parties' cross-appeals of the trial court's October 22, 2015 summary judgment rulings. Ambac appealed the First Department's rulings requiring Ambac to prove all of the elements of its fraudulent inducement claim, including justifiable reliance and loss causation; restricting Ambac's sole remedy for its breach of contract claims to the repurchase protocol of cure, repurchase or substitution of any materially defective loan; and dismissing Ambac's claim for reimbursements of attorneys' fees. On June 27, 2018, the New York Court of Appeals affirmed the First Department rulings that Ambac appealed.

Ambac v. Countrywide II

On December 30, 2014, Ambac filed a complaint in New York Supreme Court against the same defendants, claiming fraudulent inducement against Countrywide, and successor and vicarious liability against the Corporation. Ambac seeks damages in excess of \$600 million, plus punitive damages. On December 19, 2016, the Court granted in part and denied in part Countrywide's motion to dismiss the complaint.

Ambac v. Countrywide IV

On July 21, 2015, Ambac filed an action in New York Supreme Court against Countrywide asserting the same claims for fraudulent inducement that Ambac asserted in the now-dismissed *Ambac v. Countrywide III*. The complaint seeks damages in excess of \$350 million, plus punitive damages.

Ambac v. First Franklin

On April 16, 2012, Ambac filed an action against BANA, First Franklin and various Merrill Lynch entities, including Merrill Lynch, Pierce, Fenner & Smith Incorporated, in New York Supreme Court relating to guaranty insurance Ambac provided on a First Franklin securitization sponsored by Merrill Lynch. The complaint alleges fraudulent inducement and breach of contract, including breach of contract claims against BANA based upon its servicing of the loans in the securitization. Ambac seeks as damages hundreds of millions of dollars that Ambac alleges it has paid or will pay in claims.

Deposit Insurance Assessment

On January 9, 2017, the FDIC filed suit against BANA in the U.S. District Court for the District of Columbia alleging failure to pay a December 15, 2016 invoice for additional deposit insurance assessments and interest in the amount of \$542 million for the quarters ending June 30, 2013 through December 31, 2014. On April 7, 2017, the FDIC amended its complaint to add a claim for additional deposit insurance and interest in the amount of \$583 million for the quarters ending March 31, 2012 through March 31, 2013. The FDIC asserts these claims based on BANA's alleged underreporting of counterparty exposures that resulted in underpayment of assessments for those quarters and its Enforcement Section is also conducting a parallel investigation related to the same alleged reporting error. BANA disagrees with the FDIC's interpretation of the regulations as they existed during the relevant time period and is defending itself against the FDIC's claims. Pending final resolution, BANA has pledged security satisfactory to the FDIC related to the disputed additional assessment amounts.

On March 27, 2018, the U.S. District Court for the District of Columbia denied BANA's partial motion to dismiss certain of the FDIC's claims.

Interchange Litigation

In 2005, a group of merchants filed a series of putative class actions and individual actions directed at interchange fees associated with Visa and MasterCard payment card transactions. These actions, which were consolidated in the U.S. District Court for the Eastern District of New York under the caption *In re Payment Card Interchange Fee and Merchant Discount Anti-Trust Litigation*, named Visa, MasterCard, the Corporation, BANA and other banks as defendants. Plaintiffs alleged antitrust claims and sought compensatory and treble damages as well as injunctive relief.

In 2018, defendants reached a settlement of the putative Rule 23(b)(3) damages class. Defendants agreed to pay an additional amount to participating class members by contribution to the escrow fund established as part of the settlement previously rejected by the U.S. Court of Appeals for the Second Circuit. The

Corporation's additional contribution was not material. The District Court granted final approval of the settlement in December 2019. Beginning in January 2020, a number of class members who objected to the settlement appealed to the U.S. Court of Appeals for the Second Circuit.

LIBOR, Other Reference Rates, Foreign Exchange (FX) and Bond Trading Matters

Government authorities in the U.S. and various international jurisdictions continue to conduct investigations of, to make inquiries of, and to pursue proceedings against, the Corporation and its subsidiaries regarding FX and other reference rates as well as government, sovereign, supranational and agency bonds in connection with conduct and systems and controls. The Corporation is cooperating with these inquiries and investigations, and responding to the proceedings.

LIBOR

The Corporation, BANA and certain Merrill Lynch entities have been named as defendants along with most of the other London Interbank Offered Rate (LIBOR) panel banks in a number of individual and putative class actions by persons alleging they sustained losses on U.S. dollar LIBOR-based financial instruments as a result of collusion or manipulation by defendants regarding the setting of U.S. dollar LIBOR. Plaintiffs assert a variety of claims, including antitrust, Commodity Exchange Act, Racketeer Influenced and Corrupt Organizations (RICO), Securities Exchange Act of 1934, common law fraud and breach of contract claims, and seek compensatory, treble and punitive damages, and injunctive relief. All cases naming the Corporation and its affiliates relating to U.S. dollar LIBOR are pending in the U.S. District Court for the Southern District of New York.

The District Court has dismissed all RICO claims, and dismissed all manipulation claims based on alleged trader conduct against Bank of America entities. The District Court has also substantially limited the scope of antitrust, Commodity Exchange Act and various other claims, including by dismissing in their entirety certain individual and putative class plaintiffs' antitrust claims for lack of standing and/or personal jurisdiction. Plaintiffs whose antitrust claims were dismissed by the District Court are pursuing appeals in the Second Circuit. Certain individual and putative class actions remain pending in the District Court against the Corporation, BANA and certain Merrill Lynch entities.

On February 28, 2018, the District Court denied certification of proposed classes of lending institutions and persons that transacted in eurodollar futures, and the U.S. Court of Appeals for the Second Circuit subsequently denied petitions filed by those plaintiffs for interlocutory appeals of those rulings. Also on February 28, 2018, the District Court granted certification of a class of persons that purchased OTC swaps and notes that referenced U.S. dollar LIBOR from one of the U.S. dollar LIBOR panel banks, limited to claims under Section 1 of the Sherman Act. The U.S. Court of Appeals for the Second Circuit subsequently denied a petition filed by the defendants for interlocutory appeal of that ruling.

Mortgage Appraisal Litigation

The Corporation, Countrywide and certain affiliates are named as defendants in two consolidated putative class action lawsuits filed in the U.S. District Court for the Central District of California (Waldrup and Williams, et al.). Plaintiffs allege that Countrywide and a former Countrywide subsidiary, LandSafe Appraisal Services, Inc., arranged for and completed appraisals that were not in compliance with applicable laws and appraisal standards. Plaintiffs assert a RICO claim and seek, among other forms of relief, compensatory and treble damages. On February 8, 2018,

the District Court granted plaintiffs' motion for class certification. On May 22, 2018, the U.S. Court of Appeals for the Ninth Circuit denied defendants' petition for permission to file an interlocutory appeal of the District Court's ruling granting class certification.

On January 21, 2020, the parties agreed to resolve the litigation for an amount that is not material to the Corporation, and which was fully accrued as of December 31, 2019. The agreement is subject to court approval.

U.S. Bank - Harborview and SURF/OWNIT Repurchase Litigation

Beginning in 2011, U.S. Bank, National Association (U.S. Bank), as trustee for the HarborView Mortgage Loan Trust 2005-10 and various SURF/OWNIT RMBS trusts filed complaints against the Corporation, Countrywide entities, Merrill Lynch entities and other affiliates in New York Supreme Court alleging breaches of representations and warranties. The defendants and certain certificate-holders in the trusts agreed to settle the respective matters in amounts not material to the Corporation, subject to acceptance by U.S. Bank. The litigations have been stayed pending finalization of the settlements.

NOTE 14 Shareholders' Equity

Common Stock

Declared Quarterly Cash Dividends on Common Stock ⁽¹⁾

Declaration Date	Record Date	Payment Date	Dividend Per Share
January 29, 2020	March 6, 2020	March 27, 2020	\$ 0.18
October 22, 2019	December 6, 2019	December 27, 2019	0.18
July 25, 2019	September 6, 2019	September 27, 2019	0.18
April 24, 2019	June 7, 2019	June 28, 2019	0.15
January 30, 2019	March 1, 2019	March 29, 2019	0.15

(1) In 2019, and through February 19, 2020.

The cash dividends paid per share of common stock were \$0.66, \$0.54 and \$0.39 for 2019, 2018 and 2017, respectively.

The following table summarizes common stock repurchases during 2019, 2018 and 2017.

Common Stock Repurchase Summary

(in millions)	2019	2018	2017
Total share repurchases, including CCAR capital plan repurchases	956	676	509

Purchase price of shares repurchased and retired

CCAR capital plan repurchases	\$ 25,644	\$ 16,754	\$ 9,347
Other authorized repurchases	2,500	3,340	3,467
Total shares repurchased	\$ 28,144	\$ 20,094	\$ 12,814

On June 28, 2018, following the non-objection of the Board of Governors of the Federal Reserve System (Federal Reserve) to the Corporation's 2018 Comprehensive Capital Analysis and Review (CCAR) capital plan, the Corporation's Board of Directors (Board) authorized the repurchase of approximately \$20.6 billion in common stock from July 1, 2018 through June 30, 2019, which included approximately \$600 million in repurchases to offset shares awarded under equity-based compensation plans during the same period. On February 7, 2019, following approval by the Federal Reserve, the Board authorized the repurchase of an additional \$2.5 billion of common stock by June 30, 2019.

On June 27, 2019, following the Federal Reserve's non-objection to the Corporation's 2019 CCAR capital plan, the Board authorized the repurchase of approximately \$30.9 billion in

common stock from July 1, 2019 through June 30, 2020, which includes approximately \$900 million in repurchases to offset shares awarded under equity-based compensation plans during the same period.

During 2019, the Corporation repurchased 956 million shares of common stock in connection with the Board's 2018 and 2019 repurchase authorizations, which reduced shareholders' equity by \$28.1 billion.

In connection with employee stock plans, in 2019, the Corporation issued 91 million shares of its common stock and, to satisfy tax withholding obligations, repurchased 35 million shares of its common stock. At December 31, 2019, the Corporation had reserved 579 million unissued shares of common stock for future issuances under employee stock plans, convertible notes and preferred stock.

Preferred Stock

The cash dividends declared on preferred stock were \$1.4 billion, \$1.5 billion and \$1.6 billion for 2019, 2018 and 2017, respectively.

On June 20, 2019, the Corporation issued 40,000 shares of 5.125% Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series JJ for \$1.0 billion. On June 25, 2019, the Corporation issued 55,900 shares of 5.375% Non-Cumulative Preferred Stock, Series KK for \$1.4 billion. On September 17, 2019, the Corporation issued 52,400 shares of 5.000% Non-Cumulative Preferred Stock, Series LL for \$1.3 billion. Additionally, on January 24, 2020, the Corporation issued 44,000 shares of 4.300% Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series MM for \$1.1 billion.

In 2019, the Corporation fully redeemed Series V and Series W preferred stock for \$2.6 billion. Additionally, on January 27, 2020, the Corporation fully redeemed Series Y preferred stock for \$1.1 billion.

All series of preferred stock in the Preferred Stock Summary table have a par value of \$0.01 per share, are not subject to the operation of a sinking fund, have no participation rights, and with the exception of the Series L Preferred Stock, are not convertible. The holders of the Series B Preferred Stock and Series 1 through 5 Preferred Stock have general voting rights and vote together with the common stock. The holders of the other series included in the table have no general voting rights. All outstanding series of preferred stock of the Corporation have preference over the Corporation's common stock with respect to the payment of dividends and distribution of the Corporation's assets in the event of a liquidation or dissolution. With the exception of the Series B, F, G and T Preferred Stock, if any dividend payable on these series is in arrears for three or more semi-annual or six or more quarterly dividend periods, as applicable (whether consecutive or not), the holders of these series and any other class or series of preferred stock ranking equally as to payment of dividends and upon which equivalent voting rights have been conferred and are exercisable (voting as a single class) will be entitled to vote for the election of two additional directors. These voting rights terminate when the Corporation has paid in full dividends on these series for at least two semi-annual or four quarterly dividend periods, as applicable, following the dividend arrearage.

The 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L (Series L Preferred Stock) does not have early redemption/call rights. Each share of the Series L Preferred Stock may be converted at any time, at the option of the holder, into 20 shares of the Corporation's common stock plus cash in lieu of fractional shares. The Corporation may cause some or all of the Series L Preferred Stock, at its option, at any time or from time to time, to be converted into shares of common stock at the then-applicable conversion rate if, for 20 trading days during any period

of 30 consecutive trading days, the closing price of common stock exceeds 130 percent of the then-applicable conversion price of the Series L Preferred Stock. If a conversion of Series L Preferred Stock occurs at the option of the holder, subsequent to a dividend

record date but prior to the dividend payment date, the Corporation will still pay any accrued dividends payable.

The table below presents a summary of perpetual preferred stock outstanding at December 31, 2019.

Preferred Stock Summary

(Dollars in millions, except as noted)

Series	Description	Initial Issuance Date	Total Shares Outstanding	Liquidation Preference per Share (in dollars)	Carrying Value	Per Annum Dividend Rate	Dividend per Share (in dollars)	Annual Dividend	Redemption Period (1)
Series B	7% Cumulative Redeemable	June 1997	7,110	\$ 100	\$ 1	7.00 %	\$ 7.00	\$ —	n/a
Series E (2)	Floating Rate Non-Cumulative	November 2006	12,691	25,000	317	3-mo. LIBOR + 35 bps (3)	1.01	13	On or after November 15, 2011
Series F	Floating Rate Non-Cumulative	March 2012	1,409	100,000	141	3-mo. LIBOR + 40 bps (3)	4,055.56	6	On or after March 15, 2012
Series G	Adjustable Rate Non-Cumulative	March 2012	4,926	100,000	493	3-mo. LIBOR + 40 bps (3)	4,055.56	20	On or after March 15, 2012
Series L	7.25% Non-Cumulative Perpetual Convertible	January 2008	3,080,182	1,000	3,080	7.25 %	72.50	223	n/a
Series T	6% Non-cumulative	September 2011	354	100,000	35	6.00 %	6,000.00	2	After May 7, 2019
Series U (4)	Fixed-to-Floating Rate Non-Cumulative	May 2013	40,000	25,000	1,000	5.2% to, but excluding, 6/1/23; 3-mo. LIBOR + 313.5 bps thereafter	52.00	52	On or after June 1, 2023
Series X (4)	Fixed-to-Floating Rate Non-Cumulative	September 2014	80,000	25,000	2,000	6.250% to, but excluding, 9/5/24; 3-mo. LIBOR + 370.5 bps thereafter	62.50	125	On or after September 5, 2024
Series Y (2)	6.500% Non-Cumulative	January 2015	44,000	25,000	1,100	6.500 %	1.63	72	On or after January 27, 2020
Series Z (4)	Fixed-to-Floating Rate Non-Cumulative	October 2014	56,000	25,000	1,400	6.500% to, but excluding, 10/23/24; 3-mo. LIBOR + 417.4 bps thereafter	65.00	91	On or after October 23, 2024
Series AA (4)	Fixed-to-Floating Rate Non-Cumulative	March 2015	76,000	25,000	1,900	6.100% to, but excluding, 3/17/25; 3-mo. LIBOR + 389.8 bps thereafter	61.00	116	On or after March 17, 2025
Series CC (2)	6.200% Non-Cumulative	January 2016	44,000	25,000	1,100	6.200 %	1.55	68	On or after January 29, 2021
Series DD (4)	Fixed-to-Floating Rate Non-Cumulative	March 2016	40,000	25,000	1,000	6.300% to, but excluding, 3/10/26; 3-mo. LIBOR + 455.3 bps thereafter	63.00	63	On or after March 10, 2026
Series EE (2)	6.000% Non-Cumulative	April 2016	36,000	25,000	900	6.000 %	1.50	54	On or after April 25, 2021
Series FF (4)	Fixed-to-Floating Rate Non-Cumulative	March 2018	94,000	25,000	2,350	5.875% to, but excluding, 3/15/28; 3-mo. LIBOR + 293.1 bps thereafter	58.75	138	On or after March 15, 2028
Series GG (2)	6.000% Non-Cumulative	May 2018	54,000	25,000	1,350	6.000 %	1.50	81	On or after May 16, 2023
Series HH (2)	5.875% Non-Cumulative	July 2018	34,160	25,000	854	5.875 %	1.47	50	On or after July 24, 2023
Series JJ (4)	Fixed-to-Floating Rate Non-Cumulative	June 2019	40,000	25,000	1,000	5.125% to, but excluding, 6/20/24; 3-mo. LIBOR + 329.2 bps thereafter	25.63	26	On or after June 20, 2024
Series KK (2)	5.375% Non-Cumulative	June 2019	55,900	25,000	1,398	5.375 %	0.67	38	On or after June 25, 2024
Series LL (2)	5.000% Non-Cumulative	September 2019	52,400	25,000	1,310	5.000 %	0.31	16	On or after September 17, 2024
Series 1 (5)	Floating Rate Non-Cumulative	November 2004	3,275	30,000	98	3-mo. LIBOR + 75 bps (6)	0.82	3	On or after November 28, 2009
Series 2 (5)	Floating Rate Non-Cumulative	March 2005	9,967	30,000	299	3-mo. LIBOR + 65 bps (6)	0.81	10	On or after November 28, 2009
Series 4 (5)	Floating Rate Non-Cumulative	November 2005	7,010	30,000	210	3-mo. LIBOR + 75 bps (3)	1.01	9	On or after November 28, 2010
Series 5 (5)	Floating Rate Non-Cumulative	March 2007	14,056	30,000	422	3-mo. LIBOR + 50 bps (3)	1.01	17	On or after May 21, 2012
Issuance costs and certain adjustments					(357)				
Total			3,887,440		\$ 23,401				

(1) The Corporation may redeem series of preferred stock on or after the redemption date, in whole or in part, at its option, at the liquidation preference plus declared and unpaid dividends. Series B and Series L Preferred Stock do not have early redemption/call rights.

(2) Ownership is held in the form of depositary shares, each representing a 1/1,000th interest in a share of preferred stock, paying a quarterly cash dividend, if and when declared.

(3) Subject to 4.00% minimum rate per annum.

(4) Ownership is held in the form of depositary shares, each representing a 1/25th interest in a share of preferred stock, paying a semi-annual cash dividend, if and when declared, until the first redemption date at which time, it adjusts to a quarterly cash dividend, if and when declared, thereafter.

(5) Ownership is held in the form of depositary shares, each representing a 1/1,200th interest in a share of preferred stock, paying a quarterly cash dividend, if and when declared.

(6) Subject to 3.00% minimum rate per annum.

n/a = not applicable

NOTE 15 Accumulated Other Comprehensive Income (Loss)

The table below presents the changes in accumulated OCI after-tax for 2019, 2018 and 2017.

(Dollars in millions)	Debt Securities	Debit Valuation Adjustments	Derivatives	Employee Benefit Plans	Foreign Currency	Total
Balance, December 31, 2016	\$ (1,267)	\$ (767)	\$ (895)	\$ (3,480)	\$ (879)	\$ (7,288)
Net change	61	(293)	64	288	86	206
Balance, December 31, 2017	\$ (1,206)	\$ (1,060)	\$ (831)	\$ (3,192)	\$ (793)	\$ (7,082)
Accounting change related to certain tax effects	(393)	(220)	(189)	(707)	239	(1,270)
Cumulative adjustment for hedge accounting change	—	—	57	—	—	57
Net change	(3,953)	749	(53)	(405)	(254)	(3,916)
Balance, December 31, 2018	\$ (5,552)	\$ (531)	\$ (1,016)	\$ (4,304)	\$ (808)	\$ (12,211)
Net change	5,875	(963)	616	136	(86)	5,578
Balance, December 31, 2019	\$ 323	\$ (1,494)	\$ (400)	\$ (4,168)	\$ (894)	\$ (6,633)

The table below presents the net change in fair value recorded in accumulated OCI, net realized gains and losses reclassified into earnings and other changes for each component of OCI pre- and after-tax for 2019, 2018 and 2017.

(Dollars in millions)	Pretax	Tax effect	After-tax	Pretax	Tax effect	After-tax	Pretax	Tax effect	After-tax
	2019			2018			2017		
Debt securities:									
Net increase (decrease) in fair value	\$ 8,020	\$ (2,000)	\$ 6,020	\$ (5,189)	\$ 1,329	\$ (3,860)	\$ 240	\$ 14	\$ 254
Net realized (gains) reclassified into earnings (1)	(193)	48	(145)	(123)	30	(93)	(304)	111	(193)
Net change	7,827	(1,952)	5,875	(5,312)	1,359	(3,953)	(64)	125	61
Debit valuation adjustments:									
Net increase (decrease) in fair value	(1,276)	289	(987)	952	(224)	728	(490)	171	(319)
Net realized losses reclassified into earnings (1)	18	6	24	26	(5)	21	42	(16)	26
Net change	(1,258)	295	(963)	978	(229)	749	(448)	155	(293)
Derivatives:									
Net increase (decrease) in fair value	692	(156)	536	(232)	74	(158)	(50)	1	(49)
Reclassifications into earnings:									
Net interest income	104	(26)	78	165	(40)	125	327	(122)	205
Compensation and benefits expense	2	—	2	(27)	7	(20)	(148)	56	(92)
Net realized losses reclassified into earnings	106	(26)	80	138	(33)	105	179	(66)	113
Net change	798	(182)	616	(94)	41	(53)	129	(65)	64
Employee benefit plans:									
Net increase (decrease) in fair value	41	(21)	20	(703)	164	(539)	223	(55)	168
Net actuarial losses and other reclassified into earnings (2)	150	(36)	114	171	(46)	125	179	(61)	118
Settlements, curtailments and other	3	(1)	2	11	(2)	9	3	(1)	2
Net change	194	(58)	136	(521)	116	(405)	405	(117)	288
Foreign currency:									
Net (decrease) in fair value	(13)	(52)	(65)	(8)	(195)	(203)	(439)	430	(9)
Net realized (gains) losses reclassified into earnings (3)	(110)	89	(21)	(149)	98	(51)	(606)	701	95
Net change	(123)	37	(86)	(157)	(97)	(254)	(1,045)	1,131	86
Total other comprehensive income (loss)	\$ 7,438	\$ (1,860)	\$ 5,578	\$ (5,106)	\$ 1,190	\$ (3,916)	\$ (1,023)	\$ 1,229	\$ 206

(1) Reclassifications of pretax debt securities and DVA are recorded in other income in the Consolidated Statement of Income.

(2) Reclassifications of pretax employee benefit plan costs are recorded in other general operating expense in the Consolidated Statement of Income.

(3) Reclassifications of pretax debt securities, DVA and foreign currency (gains) losses are recorded in other income in the Consolidated Statement of Income.

NOTE 16 Earnings Per Common Share

The calculation of EPS and diluted EPS for 2019, 2018 and 2017 is presented below. For more information on the calculation of EPS, see *Note 1 – Summary of Significant Accounting Principles*.

(In millions, except per share information)			
	2019	2018	2017
Earnings per common share			
Net income	\$ 27,430	\$ 28,147	\$ 18,232
Preferred stock dividends	(1,432)	(1,451)	(1,614)
Net income applicable to common shareholders	\$ 25,998	\$ 26,696	\$ 16,618
Average common shares issued and outstanding	9,390.5	10,096.5	10,195.6
Earnings per common share	\$ 2.77	\$ 2.64	\$ 1.63
Diluted earnings per common share			
Net income applicable to common shareholders	\$ 25,998	\$ 26,696	\$ 16,618
Add preferred stock dividends due to assumed conversions ⁽¹⁾	—	—	186
Net income allocated to common shareholders	\$ 25,998	\$ 26,696	\$ 16,804
Average common shares issued and outstanding	9,390.5	10,096.5	10,195.6
Dilutive potential common shares ⁽²⁾	52.4	140.4	582.8
Total diluted average common shares issued and outstanding	9,442.9	10,236.9	10,778.4
Diluted earnings per common share	\$ 2.75	\$ 2.61	\$ 1.56

⁽¹⁾ Represents the Series T dividends under the "if-converted" method prior to conversion.

⁽²⁾ Includes incremental dilutive shares from RSUs, restricted stock and warrants.

For 2019, 2018 and 2017, 62 million average dilutive potential common shares associated with the Series L preferred stock were not included in the diluted share count because the result would have been antidilutive under the "if-converted" method. For 2018 and 2017, average options to purchase four million and 21 million shares of common stock were outstanding but not included in the computation of EPS because the result would have been antidilutive under the treasury stock method. For 2017, average warrants to purchase 122 million shares of common stock were outstanding but not included in the computation of EPS because the result would have been antidilutive under the treasury stock method. These warrants expired on October 29, 2018. For 2019, 2018 and 2017, average warrants to purchase three million, 136 million and 143 million shares of common stock, respectively, were included in the diluted EPS calculation under the treasury stock method. Substantially all of these warrants were exercised on or before their expiration date of January 16, 2019.

NOTE 17 Regulatory Requirements and Restrictions

The Federal Reserve, Office of the Comptroller of the Currency (OCC) and FDIC (collectively, U.S. banking regulators) jointly establish regulatory capital adequacy guidelines, including Basel 3, for U.S. banking organizations. As a financial holding company, the Corporation is subject to capital adequacy rules issued by the

Federal Reserve. The Corporation's banking entity affiliates are subject to capital adequacy rules issued by the OCC.

The Corporation and its primary banking entity affiliate, BANA, are Advanced approaches institutions under Basel 3. As Advanced approaches institutions, the Corporation and its banking entity affiliates are required to report regulatory risk-based capital ratios and risk-weighted assets under both the Standardized and Advanced approaches. The approach that yields the lower ratio is used to assess capital adequacy, including under the Prompt Corrective Action (PCA) framework. At December 31, 2019 and 2018, Common equity tier 1 and Tier 1 capital ratios were lower under the Standardized approach whereas the Advanced approaches yielded a lower result for the Total capital ratio.

The Corporation is required to maintain a minimum supplementary leverage ratio (SLR) of 3.0 percent plus a leverage buffer of 2.0 percent in order to avoid certain restrictions on capital distributions and discretionary bonus payments. The Corporation's insured depository institution subsidiaries are required to maintain a minimum 6.0 percent SLR to be considered well capitalized under the PCA framework.

The following table presents capital ratios and related information in accordance with Basel 3 Standardized and Advanced approaches as measured at December 31, 2019 and 2018 for the Corporation and BANA.

Regulatory Capital under Basel 3

(Dollars in millions, except as noted)

Risk-based capital metrics:

	Bank of America Corporation			Bank of America, N.A.		
	Standardized Approach	Advanced Approaches	Regulatory Minimum (1)	Standardized Approach	Advanced Approaches	Regulatory Minimum (2)
December 31, 2019						
Common equity tier 1 capital	\$ 166,760	\$ 166,760		\$ 154,626	\$ 154,626	
Tier 1 capital	188,492	188,492		154,626	154,626	
Total capital (3)	221,230	213,098		166,567	158,665	
Risk-weighted assets (in billions)	1,493	1,447		1,241	991	
Common equity tier 1 capital ratio	11.2 %	11.5 %	9.5 %	12.5 %	15.6 %	7.0 %
Tier 1 capital ratio	12.6	13.0	11.0	12.5	15.6	8.5
Total capital ratio	14.8	14.7	13.0	13.4	16.0	10.5

Leverage-based metrics:

Adjusted quarterly average assets (in billions) (4)	\$ 2,374	\$ 2,374		\$ 1,780	\$ 1,780	
Tier 1 leverage ratio	7.9 %	7.9 %	4.0	8.7 %	8.7 %	5.0
SLR leverage exposure (in billions)		\$ 2,946		\$ 2,177		
SLR		6.4 %	5.0	7.1 %		6.0

December 31, 2018

Risk-based capital metrics:

Common equity tier 1 capital	\$ 167,272	\$ 167,272		\$ 149,824	\$ 149,824	
Tier 1 capital	189,038	189,038		149,824	149,824	
Total capital (3)	221,304	212,878		161,760	153,627	
Risk-weighted assets (in billions)	1,437	1,409		1,195	959	
Common equity tier 1 capital ratio	11.6 %	11.9 %	8.25 %	12.5 %	15.6 %	6.5 %
Tier 1 capital ratio	13.2	13.4	9.75	12.5	15.6	8.0
Total capital ratio	15.4	15.1	11.75	13.5	16.0	10.0

Leverage-based metrics:

Adjusted quarterly average assets (in billions) (4)	\$ 2,258	\$ 2,258		\$ 1,719	\$ 1,719	
Tier 1 leverage ratio	8.4 %	8.4 %	4.0	8.7 %	8.7 %	5.0
SLR leverage exposure (in billions)		\$ 2,791		\$ 2,112		
SLR		6.8 %	5.0	7.1 %		6.0

(1) The capital conservation buffer and global systemically important bank surcharge were 2.5 percent at December 31, 2019 and 1.875 percent at December 31, 2018. The countercyclical capital buffer for both periods was zero. The SLR minimum includes a leverage buffer of 2.0 percent.

(2) Risk-based capital regulatory minimums at December 31, 2019 are the minimum ratios under Basel 3 including a capital conservation buffer of 2.5 percent. The regulatory minimums for the leverage ratios as of both period ends and risk-based capital ratios as of December 31, 2018 are the percent required to be considered well capitalized under the PCA framework.

(3) Total capital under the Advanced approaches differs from the Standardized approach due to differences in the amount permitted in Tier 2 capital related to the qualifying allowance for credit losses.

(4) Reflects total average assets adjusted for certain Tier 1 capital deductions.

The capital adequacy rules issued by the U.S. banking regulators require institutions to meet the established minimums outlined in the table above. Failure to meet the minimum requirements can lead to certain mandatory and discretionary actions by regulators that could have a material adverse impact on the Corporation's financial position. At December 31, 2019 and 2018, the Corporation and its banking entity affiliates were well capitalized.

Other Regulatory Matters

The Federal Reserve requires the Corporation's bank subsidiaries to maintain reserve requirements based on a percentage of certain deposit liabilities. The average daily reserve balance requirements, in excess of vault cash, maintained by the Corporation with the Federal Reserve Bank were \$14.6 billion and \$11.4 billion for 2019 and 2018. At December 31, 2019 and 2018, the Corporation had cash and cash equivalents in the amount of \$6.3 billion and \$5.8 billion, and securities with a fair value of \$14.7 billion and \$16.6 billion that were segregated in compliance with securities regulations. Cash held on deposit with the Federal Reserve Bank to meet reserve requirements and cash and cash equivalents segregated in compliance with securities regulations are components of restricted cash. For more information, see *Note 11 – Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash*. In

addition, at December 31, 2019 and 2018, the Corporation had cash deposited with clearing organizations of \$7.6 billion and \$8.1 billion primarily recorded in other assets on the Consolidated Balance Sheet.

Bank Subsidiary Distributions

The primary sources of funds for cash distributions by the Corporation to its shareholders are capital distributions received from its bank subsidiaries, BANA and Bank of America California, N.A. In 2019, the Corporation received dividends of \$20.5 billion from BANA and \$215 million from Bank of America California, N.A. In addition, BANA returned capital of \$8.0 billion to the Corporation in 2019.

The amount of dividends that a subsidiary bank may declare in a calendar year without OCC approval is the subsidiary bank's net profits for that year combined with its retained net profits for the preceding two years. Retained net profits, as defined by the OCC, consist of net income less dividends declared during the period. In 2020, BANA can declare and pay dividends of approximately \$9.4 billion to the Corporation plus an additional amount equal to its retained net profits for 2020 up to the date of any such dividend declaration. Bank of America California, N.A. can pay dividends of \$94 million in 2020 plus an additional amount equal to its retained net profits for 2020 up to the date of any such dividend declaration.

NOTE 18 Employee Benefit Plans

Pension and Postretirement Plans

The Corporation sponsors a qualified noncontributory trustee pension plan (Qualified Pension Plan), a number of noncontributory nonqualified pension plans, and postretirement health and life plans that cover eligible employees. Non-U.S. pension plans sponsored by the Corporation vary based on the country and local practices.

The Qualified Pension Plan has a balance guarantee feature for account balances with participant-selected investments, applied at the time a benefit payment is made from the plan that effectively provides principal protection for participant balances transferred and certain compensation credits. The Corporation is responsible for funding any shortfall on the guarantee feature.

Benefits earned under the Qualified Pension Plan have been frozen. Thereafter, the cash balance accounts continue to earn investment credits or interest credits in accordance with the terms of the plan document.

The Corporation has an annuity contract that guarantees the payment of benefits vested under a terminated U.S. pension plan (Other Pension Plan). The Corporation, under a supplemental agreement, may be responsible for, or benefit from actual experience and investment performance of the annuity assets. The Corporation made no contribution under this agreement in 2019 or 2018. Contributions may be required in the future under this agreement.

The Corporation's noncontributory, nonqualified pension plans are unfunded and provide supplemental defined pension benefits to certain eligible employees.

In addition to retirement pension benefits, certain benefits-eligible employees may become eligible to continue participation as retirees in health care and/or life insurance plans sponsored by the Corporation. These plans are referred to as the Postretirement Health and Life Plans.

The Pension and Postretirement Plans table summarizes the changes in the fair value of plan assets, changes in the projected benefit obligation (PBO), the funded status of both the accumulated benefit obligation (ABO) and the PBO, and the weighted-average assumptions used to determine benefit obligations for the pension plans and postretirement plans at December 31, 2019 and 2018. The estimate of the Corporation's PBO associated with these plans considers various actuarial assumptions, including assumptions for mortality rates and discount rates. The discount rate assumptions are derived from a cash flow matching technique that utilizes rates that are based on Aa-rated corporate bonds with cash flows that match estimated benefit payments of each of the plans. The decreases in the weighted-average discount rates in 2019 resulted in increases to the PBO of approximately \$2.2 billion at December 31, 2019. The increases in the weighted-average discount rates in 2018 resulted in decreases to the PBO of approximately \$1.3 billion at December 31, 2018. Significant gains and losses related to changes in the PBO for 2019 and 2018 primarily resulted from changes in the discount rate.

Pension and Postretirement Plans (1)

	Qualified Pension Plan		Non-U.S. Pension Plans		Nonqualified and Other Pension Plans		Postretirement Health and Life Plans	
	2019	2018	2019	2018	2019	2018	2019	2018
(Dollars in millions)								
Fair value, January 1	\$ 18,178	\$ 19,708	\$ 2,461	\$ 2,943	\$ 2,584	\$ 2,724	\$ 252	\$ 300
Actual return on plan assets	3,187	(550)	273	(181)	228	8	5	5
Company contributions	—	—	20	22	91	91	24	43
Plan participant contributions	—	—	1	1	—	—	103	115
Settlements and curtailments	—	—	(42)	(107)	—	—	—	—
Benefits paid	(1,090)	(980)	(108)	(52)	(237)	(239)	(185)	(214)
Federal subsidy on benefits paid	n/a	n/a	n/a	n/a	n/a	n/a	—	3
Foreign currency exchange rate changes	n/a	n/a	91	(165)	n/a	n/a	n/a	n/a
Fair value, December 31	\$ 20,275	\$ 18,178	\$ 2,696	\$ 2,461	\$ 2,666	\$ 2,584	\$ 199	\$ 252
Change in projected benefit obligation								
Projected benefit obligation, January 1	\$ 14,144	\$ 15,706	\$ 2,589	\$ 2,814	\$ 2,779	\$ 3,047	\$ 928	\$ 1,056
Service cost	—	—	17	19	1	1	5	6
Interest cost	593	563	65	65	113	105	38	36
Plan participant contributions	—	—	1	1	—	—	103	115
Plan amendments	—	—	2	13	—	—	—	—
Settlements and curtailments	—	—	(42)	(107)	—	—	—	—
Actuarial loss (gain)	1,714	(1,145)	288	(29)	263	(135)	99	(73)
Benefits paid	(1,090)	(980)	(108)	(52)	(237)	(239)	(185)	(214)
Federal subsidy on benefits paid	n/a	n/a	n/a	n/a	n/a	n/a	—	3
Foreign currency exchange rate changes	n/a	n/a	75	(135)	n/a	n/a	1	(1)
Projected benefit obligation, December 31	\$ 15,361	\$ 14,144	\$ 2,887	\$ 2,589	\$ 2,919	\$ 2,779	\$ 989	\$ 928
Amounts recognized on Consolidated Balance Sheet								
Other assets	\$ 4,914	\$ 4,034	\$ 364	\$ 316	\$ 733	\$ 754	\$ —	\$ —
Accrued expenses and other liabilities	—	—	(555)	(444)	(986)	(949)	(790)	(676)
Net amount recognized, December 31	\$ 4,914	\$ 4,034	\$ (191)	\$ (128)	\$ (253)	\$ (195)	\$ (790)	\$ (676)
Funded status, December 31								
Accumulated benefit obligation	\$ 15,361	\$ 14,144	\$ 2,841	\$ 2,542	\$ 2,919	\$ 2,778	n/a	n/a
Overfunded (unfunded) status of ABO	4,914	4,034	(145)	(81)	(253)	(194)	n/a	n/a
Provision for future salaries	—	—	46	47	—	1	n/a	n/a
Projected benefit obligation	15,361	14,144	2,887	2,589	2,919	2,779	\$ 989	\$ 928
Weighted-average assumptions, December 31								
Discount rate	3.32 %	4.32 %	1.81 %	2.60 %	3.20 %	4.26 %	3.27 %	4.25 %
Rate of compensation increase	n/a	n/a	4.10	4.49	4.00	4.00	n/a	n/a
Interest-crediting rate	5.06	5.18	1.53	1.47	4.52	4.50	n/a	n/a

(1) The measurement date for all of the above plans was December 31 of each year reported.

n/a = not applicable

The Corporation's estimate of its contributions to be made to the Non-U.S. Pension Plans, Nonqualified and Other Pension Plans, and Postretirement Health and Life Plans in 2020 is \$21 million, \$92 million and \$15 million, respectively. The Corporation does not expect to make a contribution to the Qualified Pension Plan in 2020. It is the policy of the Corporation to fund no less than the

minimum funding amount required by the Employee Retirement Income Security Act of 1974 (ERISA).

Pension Plans with ABO and PBO in excess of plan assets as of December 31, 2019 and 2018 are presented in the table below. For these plans, funding strategies vary due to legal requirements and local practices.

Plans with ABO and PBO in Excess of Plan Assets

(Dollars in millions)	Non-U.S. Pension Plans		Nonqualified and Other Pension Plans	
	2019	2018	2019	2018
PBO	\$ 744	\$ 615	\$ 988	\$ 950
ABO	720	605	988	949
Fair value of plan assets	191	173	1	1

Components of Net Periodic Benefit Cost

(Dollars in millions)	Qualified Pension Plan			Non-U.S. Pension Plans		
	2019	2018	2017	2019	2018	2017
Components of net periodic benefit cost (income)						
Service cost	\$ —	\$ —	\$ —	\$ 17	\$ 19	\$ 24
Interest cost	593	563	606	65	65	72
Expected return on plan assets	(1,088)	(1,136)	(1,068)	(99)	(126)	(136)
Amortization of net actuarial loss	135	147	154	6	10	8
Other	—	—	—	4	12	(7)
Net periodic benefit cost (income)	\$ (360)	\$ (426)	\$ (308)	\$ (7)	\$ (20)	\$ (39)
Weighted-average assumptions used to determine net cost for years ended December 31						
Discount rate	4.32%	3.68%	4.16%	2.60%	2.39%	2.56%
Expected return on plan assets	6.00	6.00	6.00	4.13	4.37	4.73
Rate of compensation increase	n/a	n/a	n/a	4.49	4.31	4.51

(Dollars in millions)	Nonqualified and Other Pension Plans			Postretirement Health and Life Plans		
	2019	2018	2017	2019	2018	2017
Components of net periodic benefit cost (income)						
Service cost	\$ 1	\$ 1	\$ 1	\$ 5	\$ 6	\$ 6
Interest cost	113	105	117	38	36	43
Expected return on plan assets	(95)	(84)	(95)	(5)	(6)	—
Amortization of net actuarial loss (gain)	34	43	34	(24)	(27)	(21)
Other	—	—	—	(2)	(3)	4
Net periodic benefit cost (income)	\$ 53	\$ 65	\$ 57	\$ 12	\$ 6	\$ 32
Weighted-average assumptions used to determine net cost for years ended December 31						
Discount rate	4.26%	3.58%	4.01%	4.25%	3.58%	3.99%
Expected return on plan assets	3.73	3.19	3.50	2.00	2.00	n/a
Rate of compensation increase	4.00	4.00	4.00	n/a	n/a	n/a

n/a = not applicable

The asset valuation method used to calculate the expected return on plan assets component of net periodic benefit cost for the Qualified Pension Plan recognizes 60 percent of the prior year's market gains or losses at the next measurement date with the remaining 40 percent spread equally over the subsequent four years.

Gains and losses for all benefit plans except postretirement health care are recognized in accordance with the standard amortization provisions of the applicable accounting guidance. Net periodic postretirement health and life expense was determined using the "projected unit credit" actuarial method. For the Postretirement Health and Life Plans, 50 percent of the unrecognized gain or loss at the beginning of the year (or at subsequent remeasurement) is recognized on a level basis during the year.

Assumed health care cost trend rates affect the postretirement benefit obligation and benefit cost reported for the Postretirement Health and Life Plans. The assumed health care cost trend rate used to measure the expected cost of benefits covered by the Postretirement Health and Life Plans is 6.50 percent for 2020, reducing in steps to 5.00 percent in 2026 and later years.

The Corporation's net periodic benefit cost (income) recognized for the plans is sensitive to the discount rate and expected return on plan assets. For the Qualified Pension Plan, Non-U.S. Pension Plans, Nonqualified and Other Pension Plans, and Postretirement Health and Life Plans, a 25 bp decline in discount rates and expected return on assets would not have had a significant impact on the net periodic benefit cost for 2019.

Pretax Amounts included in Accumulated OCI and OCI

(Dollars in millions)	Qualified Pension Plan		Non-U.S. Pension Plans		Nonqualified and Other Pension Plans		Postretirement Health and Life Plans		Total	
	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018
Net actuarial loss (gain)	\$ 3,865	\$ 4,386	\$ 559	\$ 454	\$ 1,008	\$ 912	\$ 48	\$ (75)	\$ 5,480	\$ 5,677
Prior service cost (credits)	—	—	18	18	—	—	(6)	(9)	12	9
Amounts recognized in accumulated OCI	\$ 3,865	\$ 4,386	\$ 577	\$ 472	\$ 1,008	\$ 912	\$ 42	\$ (84)	\$ 5,492	\$ 5,686
Current year actuarial loss (gain)	\$ (385)	\$ 541	\$ 110	\$ 270	\$ 130	\$ (59)	\$ 99	\$ (73)	\$ (46)	\$ 679
Amortization of actuarial gain (loss) and prior service cost	(135)	(147)	(7)	(11)	(34)	(43)	26	30	(150)	(171)
Current year prior service cost (credit)	—	—	2	13	—	—	—	—	2	13
Amounts recognized in OCI	\$ (520)	\$ 394	\$ 105	\$ 272	\$ 96	\$ (102)	\$ 125	\$ (43)	\$ (194)	\$ 521

Plan Assets

The Qualified Pension Plan has been established as a retirement vehicle for participants, and trusts have been established to secure benefits promised under the Qualified Pension Plan. The Corporation's policy is to invest the trust assets in a prudent manner for the exclusive purpose of providing benefits to participants and defraying reasonable expenses of administration. The Corporation's investment strategy is designed to provide a total return that, over the long term, increases the ratio of assets to liabilities. The strategy attempts to maximize the investment return on assets at a level of risk deemed appropriate by the Corporation while complying with ERISA and any applicable regulations and laws. The investment strategy utilizes asset allocation as a principal determinant for establishing the risk/return profile of the assets. Asset allocation ranges are established, periodically reviewed and adjusted as funding levels and liability characteristics change. Active and passive investment managers are employed to help enhance the risk/return profile of the assets. An additional aspect of the investment strategy used to minimize risk (part of the asset allocation plan) includes matching the exposure of participant-selected investment measures.

The assets of the Non-U.S. Pension Plans are primarily attributable to a U.K. pension plan. This U.K. pension plan's assets are invested prudently so that the benefits promised to members are provided with consideration given to the nature and the duration

of the plans' liabilities. The selected asset allocation strategy is designed to achieve a higher return than the lowest risk strategy.

The expected rate of return on plan assets assumption was developed through analysis of historical market returns, historical asset class volatility and correlations, current market conditions, anticipated future asset allocations, the funds' past experience, and expectations on potential future market returns. The expected return on plan assets assumption is determined using the calculated market-related value for the Qualified Pension Plan and the Other Pension Plan and the fair value for the Non-U.S. Pension Plans and Postretirement Health and Life Plans. The expected return on plan assets assumption represents a long-term average view of the performance of the assets in the Qualified Pension Plan, the Non-U.S. Pension Plans, the Other Pension Plan, and Postretirement Health and Life Plans, a return that may or may not be achieved during any one calendar year. The Other Pension Plan is invested solely in an annuity contract which is primarily invested in fixed-income securities structured such that asset maturities match the duration of the plan's obligations.

The target allocations for 2020 by asset category for the Qualified Pension Plan, Non-U.S. Pension Plans, and Nonqualified and Other Pension Plans are presented in the following table. Equity securities for the Qualified Pension Plan include common stock of the Corporation in the amounts of \$315 million (1.55 percent of total plan assets) and \$221 million (1.22 percent of total plan assets) at December 31, 2019 and 2018.

2020 Target Allocation

Asset Category	Percentage		
	Qualified Pension Plan	Non-U.S. Pension Plans	Nonqualified and Other Pension Plans
Equity securities	15 - 50%	5 - 30%	0 - 5%
Debt securities	45 - 80%	40 - 70%	95 - 100%
Real estate	0 - 10%	0 - 15%	0 - 5%
Other	0 - 5%	10 - 40%	0 - 5%

Fair Value Measurements

For more information on fair value measurements, including descriptions of Level 1, 2 and 3 of the fair value hierarchy and the valuation methods employed by the Corporation, see *Note 1 – Summary of Significant Accounting Principles* and *Note 21 – Fair Value Measurements*. Combined plan investment assets measured at fair value by level and in total at December 31, 2019 and 2018 are summarized in the Fair Value Measurements table.

Fair Value Measurements

	Level 1		Level 2		Level 3		Total		Level 1		Level 2		Level 3		Total	
(Dollars in millions)	December 31, 2019								December 31, 2018							
Cash and short-term investments																
Money market and interest-bearing cash	\$	1,426	\$	—	\$	—	\$	1,426	\$	1,530	\$	—	\$	—	\$	1,530
Cash and cash equivalent commingled/mutual funds		—		250		—		250		—		644		—		644
Fixed income																
U.S. government and agency securities		4,403		890		8		5,301		3,637		805		9		4,451
Corporate debt securities		—		3,676		—		3,676		—		2,852		—		2,852
Asset-backed securities		—		2,684		—		2,684		—		2,119		—		2,119
Non-U.S. debt securities		748		1,015		—		1,763		539		961		—		1,500
Fixed income commingled/mutual funds		804		1,439		—		2,243		933		1,177		—		2,110
Equity																
Common and preferred equity securities		4,655		—		—		4,655		4,414		—		—		4,414
Equity commingled/mutual funds		147		1,355		—		1,502		288		1,275		—		1,563
Public real estate investment trusts		91		—		—		91		104		—		—		104
Real estate																
Private real estate		—		—		—		—		—		—		5		5
Real estate commingled/mutual funds		—		18		927		945		—		13		885		898
Limited partnerships																
		—		173		90		263		—		158		82		240
Other investments (1)																
		11		390		636		1,037		93		364		588		1,045
Total plan investment assets, at fair value	\$	12,285	\$	11,890	\$	1,661	\$	25,836	\$	11,538	\$	10,368	\$	1,569	\$	23,475

(1) Other investments include commodity and balanced funds of \$233 million and \$305 million, insurance annuity contracts of \$614 million and \$562 million and other various investments of \$190 million and \$178 million at December 31, 2019 and 2018.

The Level 3 Fair Value Measurements table presents a reconciliation of all plan investment assets measured at fair value using significant unobservable inputs (Level 3) during 2019, 2018 and 2017.

Level 3 Fair Value Measurements

	Balance January 1	Actual Return on Plan Assets Still Held at the Reporting Date	Purchases, Sales and Settlements	Balance December 31
(Dollars in millions)	2019			
Fixed income				
U.S. government and agency securities	\$ 9	\$ —	\$ (1)	\$ 8
Real estate				
Private real estate	5	—	(5)	—
Real estate commingled/mutual funds	885	33	9	927
Limited partnerships	82	—	8	90
Other investments	588	6	42	636
Total	\$ 1,569	\$ 39	\$ 53	\$ 1,661
	2018			
Fixed income				
U.S. government and agency securities	\$ 9	\$ —	\$ —	\$ 9
Real estate				
Private real estate	93	(7)	(81)	5
Real estate commingled/mutual funds	831	52	2	885
Limited partnerships	85	(12)	9	82
Other investments	74	—	514	588
Total	\$ 1,092	\$ 33	\$ 444	\$ 1,569
	2017			
Fixed income				
U.S. government and agency securities	\$ 10	\$ —	\$ (1)	\$ 9
Real estate				
Private real estate	150	8	(65)	93
Real estate commingled/mutual funds	748	63	20	831
Limited partnerships	38	14	33	85
Other investments	83	5	(14)	74
Total	\$ 1,029	\$ 90	\$ (27)	\$ 1,092

Projected Benefit Payments

Benefit payments projected to be made from the Qualified Pension Plan, Non-U.S. Pension Plans, Nonqualified and Other Pension Plans, and Postretirement Health and Life Plans are presented in the table below.

Projected Benefit Payments

(Dollars in millions)	Qualified Pension Plan (1)	Non-U.S. Pension Plans (2)	Nonqualified and Other Pension Plans (2)	Postretirement Health and Life Plans (3)
2020	\$ 917	\$ 108	\$ 242	\$ 83
2021	926	107	245	80
2022	927	110	232	77
2023	917	116	230	74
2024	924	126	223	72
2025 - 2029	4,409	594	1,011	313

(1) Benefit payments expected to be made from the plan's assets.

(2) Benefit payments expected to be made from a combination of the plans' and the Corporation's assets.

(3) Benefit payments (net of retiree contributions) expected to be made from a combination of the plans' and the Corporation's assets.

Defined Contribution Plans

The Corporation maintains qualified and non-qualified defined contribution retirement plans. The Corporation recorded expense of \$1.0 billion in each of 2019, 2018 and 2017 related to the qualified defined contribution plans. At December 31, 2019 and 2018, 189 million and 212 million shares of the Corporation's common stock were held by these plans. Payments to the plans for dividends on common stock were \$133 million, \$115 million and \$86 million in 2019, 2018 and 2017, respectively.

Certain non-U.S. employees are covered under defined contribution pension plans that are separately administered in accordance with local laws.

NOTE 19 Stock-based Compensation Plans

The Corporation administers a number of equity compensation plans, with awards being granted predominantly from the Bank of America Key Employee Equity Plan (KEEP). On April 24, 2019, Bank of America's shareholders approved an amendment to the KEEP to increase the number of shares available for grant by 150 million. Subsequent to this amendment, 600 million shares of the Corporation's common stock are authorized to be used for grants of awards.

During 2019 and 2018, the Corporation granted 94 million and 71 million RSU awards to certain employees under the KEEP. These RSUs were authorized to settle predominantly in shares of common stock of the Corporation. Certain RSUs will be settled in cash or contain settlement provisions that subject these awards to variable accounting whereby compensation expense is adjusted to fair value based on changes in the share price of the Corporation's common stock up to the settlement date. Of the RSUs granted in 2019 and 2018, 71 million and 63 million will vest predominantly over three years with most vesting occurring in one-third increments on each of the first three anniversaries of the grant date provided that the employee remains continuously employed with the Corporation during that time, and will be expensed ratably over the vesting period, net of estimated forfeitures, for non-retirement eligible employees based on the grant-date fair value of the shares. For RSUs granted to employees who are retirement eligible, the awards are deemed authorized as of the beginning of the year preceding the grant date when the incentive award plans are generally approved. As a result, the estimated value is expensed ratably over the year preceding the grant date. Additionally, 23 million and eight million of the RSUs granted in 2019 and 2018 will vest predominantly over four years with most vesting occurring in one-fourth increments on each of the first four

anniversaries of the grant date provided that the employee remains continuously employed with the Corporation during that time, and will be expensed ratably over the vesting period, net of estimated forfeitures, based on the grant-date fair value of the shares.

The compensation cost for the stock-based plans was \$2.1 billion, \$1.8 billion and \$2.2 billion and the related income tax benefit was \$511 million, \$433 million and \$829 million for 2019, 2018 and 2017, respectively.

Restricted Stock/Units

The table below presents the status at December 31, 2019 of the share-settled restricted stock/units and changes during 2019.

Stock-settled Restricted Stock/Units

	Shares/Units	Weighted-average Grant Date Fair Value
Outstanding at January 1, 2019	165,621,246	\$ 23.22
Granted	91,164,482	27.72
Vested	(92,215,549)	19.30
Canceled	(6,660,864)	27.49
Outstanding at December 31, 2019	157,909,315	27.93

The table below presents the status at December 31, 2019 of the cash-settled RSUs and changes during 2019.

Cash-settled Restricted Units

	Units
Outstanding at January 1, 2019	2,609,122
Granted	2,455,177
Vested	(3,006,707)
Canceled	(93,170)
Outstanding at December 31, 2019	1,964,422

At December 31, 2019, there was an estimated \$1.6 billion of total unrecognized compensation cost related to certain share-based compensation awards that is expected to be recognized over a period of up to four years, with a weighted-average period of 2.2 years. The total fair value of restricted stock vested in 2019, 2018 and 2017 was \$2.6 billion, \$2.3 billion and \$1.3 billion, respectively. In 2019, 2018 and 2017, the amount of cash paid to settle equity-based awards for all equity compensation plans was \$84 million, \$1.3 billion and \$1.9 billion, respectively.

NOTE 20 Income Taxes

The components of income tax expense for 2019, 2018 and 2017 are presented in the table below.

Income Tax Expense

(Dollars in millions)	2019	2018	2017
Current income tax expense			
U.S. federal	\$ 1,136	\$ 816	\$ 1,310
U.S. state and local	901	1,377	557
Non-U.S.	852	1,203	939
Total current expense	2,889	3,396	2,806
Deferred income tax expense			
U.S. federal	2,001	2,579	7,238
U.S. state and local	223	240	835
Non-U.S.	211	222	102
Total deferred expense	2,435	3,041	8,175
Total income tax expense	\$ 5,324	\$ 6,437	\$ 10,981

Total income tax expense does not reflect the tax effects of items that are included in OCI each period. For more information, see *Note 15 – Accumulated Other Comprehensive Income (Loss)*. Other tax effects included in OCI each period resulted in an expense of \$1.9 billion in 2019 and a benefit of \$1.2 billion in both 2018 and 2017.

Reconciliation of Income Tax Expense

(Dollars in millions)	Amount	Percent	Amount	Percent	Amount	Percent
	2019		2018		2017	
Expected U.S. federal income tax expense	\$ 6,878	21.0 %	\$ 7,263	21.0 %	\$ 10,225	35.0 %
Increase (decrease) in taxes resulting from:						
State tax expense, net of federal benefit	1,283	3.9	1,367	4.0	881	3.0
Affordable housing/energy/other credits	(2,365)	(7.2)	(1,888)	(5.5)	(1,406)	(4.8)
Changes in prior-period UTBs, including interest	(613)	(1.9)	144	0.4	133	0.5
Tax-exempt income, including dividends	(433)	(1.3)	(413)	(1.2)	(672)	(2.3)
Stock-based compensation	(225)	(0.7)	(257)	(0.7)	(236)	(0.8)
Rate differential on non-U.S. earnings	504	1.5	98	0.3	(272)	(0.9)
Nondeductible expenses	290	0.9	302	0.9	97	0.3
Tax law changes	—	—	—	—	2,281	7.8
Other	5	0.1	(179)	(0.6)	(50)	(0.2)
Total income tax expense	\$ 5,324	16.3 %	\$ 6,437	18.6 %	\$ 10,981	37.6 %

The reconciliation of the beginning unrecognized tax benefits (UTB) balance to the ending balance is presented in the following table.

Reconciliation of the Change in Unrecognized Tax Benefits

(Dollars in millions)	2019	2018	2017
Balance, January 1	\$ 2,197	\$ 1,773	\$ 875
Increases related to positions taken during the current year	238	395	292
Increases related to positions taken during prior years ⁽¹⁾	401	406	750
Decreases related to positions taken during prior years ⁽¹⁾	(1,102)	(371)	(122)
Settlements	(541)	(6)	(17)
Expiration of statute of limitations	(18)	—	(5)
Balance, December 31	\$ 1,175	\$ 2,197	\$ 1,773

⁽¹⁾ The sum of the positions taken during prior years differs from the \$(613) million, \$144 million and \$133 million in the Reconciliation of Income Tax Expense table due to temporary items, state items and jurisdictional offsets, as well as the inclusion of interest in the Reconciliation of Income Tax Expense table.

Income tax expense for 2019, 2018 and 2017 varied from the amount computed by applying the statutory income tax rate to income before income taxes. The Corporation's federal statutory tax rate was 21 percent for 2019 and 2018, and 35 percent for 2017. A reconciliation of the expected U.S. federal income tax expense, calculated by applying the federal statutory tax rate, to the Corporation's actual income tax expense, and the effective tax rates for 2019, 2018 and 2017 are presented in the table below.

On December 22, 2017, the President signed into law the Tax Act which made significant changes to federal income tax law including, among other things, reducing the statutory corporate income tax rate to 21 percent from 35 percent and changing the taxation of the Corporation's non-U.S. business activities. The impact on net income in 2017 was \$2.9 billion, driven by \$2.3 billion in income tax expense, largely from a lower valuation of certain U.S. deferred tax assets and liabilities. The change in the statutory tax rate also impacted the Corporation's tax-advantaged energy investments, resulting in a downward valuation adjustment of \$946 million recorded in other income and a related income tax benefit of \$347 million, which when netted against the \$2.3 billion, resulted in a net impact on income tax expense of \$1.9 billion.

At December 31, 2019, 2018 and 2017, the balance of the Corporation's UTBs which would, if recognized, affect the Corporation's effective tax rate was \$814 million, \$1.6 billion and \$1.2 billion, respectively. Included in the UTB balance are some items the recognition of which would not affect the effective tax rate, such as the tax effect of certain temporary differences, the portion of gross state UTBs that would be offset by the tax benefit of the associated federal deduction and the portion of gross non-U.S. UTBs that would be offset by tax reductions in other jurisdictions.

It is reasonably possible that the UTB balance may decrease by as much as \$64 million during the next 12 months, since resolved items will be removed from the balance whether their resolution results in payment or recognition.

The Corporation recognized an interest benefit of \$19 million in 2019 and interest expense of \$43 million and \$1 million in 2018 and 2017. At December 31, 2019 and 2018, the Corporation's accrual for interest and penalties that related to income taxes, net of taxes and remittances, was \$147 million and \$218 million.

The Corporation files income tax returns in more than 100 state and non-U.S. jurisdictions each year. The IRS and other tax authorities in countries and states in which the Corporation has

significant business operations examine tax returns periodically (continuously in some jurisdictions). The following table summarizes the status of examinations by major jurisdiction for the Corporation and various subsidiaries at December 31, 2019.

Tax Examination Status

	Years under Examination (1)	Status at December 31 2019
United States	2017-2018	To begin in 2020
California	2012-2017	Field examination
New York	2016-2018	Field examination
United Kingdom	2018	Field examination

(1) All tax years subsequent to the years shown remain subject to examination.

Significant components of the Corporation's net deferred tax assets and liabilities at December 31, 2019 and 2018 are presented in the following table.

Deferred Tax Assets and Liabilities

	December 31	
	2019	2018
(Dollars in millions)		
Deferred tax assets		
Net operating loss carryforwards	\$ 7,417	\$ 7,993
Allowance for credit losses	2,354	2,400
Lease liability	2,321	—
Security, loan and debt valuations	1,860	1,818
Accrued expenses	1,719	1,875
Employee compensation and retirement benefits	1,622	1,564
Credit carryforwards	183	623
Available-for-sale securities	—	1,854
Other	1,203	1,037
Gross deferred tax assets	18,679	19,164
Valuation allowance	(1,989)	(1,569)
Total deferred tax assets, net of valuation allowance	16,690	17,595
Deferred tax liabilities		
Equipment lease financing	2,933	2,684
Right-to-use asset	2,246	—
Tax credit investments	1,577	940
Fixed assets	1,505	1,104
Available-for-sale securities	100	—
Other	1,885	2,126
Gross deferred tax liabilities	10,246	6,854
Net deferred tax assets	\$ 6,444	\$ 10,741

The table below summarizes the deferred tax assets and related valuation allowances recognized for the net operating loss (NOL) and tax credit carryforwards at December 31, 2019.

Net Operating Loss and Tax Credit Carryforward Deferred Tax Assets

	Deferred Tax Asset	Valuation Allowance	Net Deferred Tax Asset	First Year Expiring
(Dollars in millions)				
Net operating losses - U.S.	\$ 312	\$ —	\$ 312	After 2028
Net operating losses - U.K. (1)	5,276	—	5,276	None
Net operating losses - other non-U.S.	493	(423)	70	Various
Net operating losses - U.S. states (2)	1,336	(580)	756	Various
Foreign tax credits	183	(183)	—	2028

(1) Represents U.K. broker-dealer net operating losses that may be carried forward indefinitely.

(2) The net operating losses and related valuation allowances for U.S. states before considering the benefit of federal deductions were \$1.7 billion and \$734 million.

Management concluded that no valuation allowance was necessary to reduce the deferred tax assets related to the U.K. NOL carryforwards and U.S. federal and certain state NOL carryforwards since estimated future taxable income will be sufficient to utilize these assets prior to their expiration. The majority of the Corporation's U.K. net deferred tax assets, which consist primarily of NOLs, are expected to be realized by certain subsidiaries over an extended number of years. Management's conclusion is supported by financial results, profit forecasts for the relevant entities and the indefinite period to carry forward NOLs. However, a material change in those estimates could lead management to reassess such valuation allowance conclusions.

At December 31, 2019, U.S. federal income taxes had not been provided on approximately \$5.0 billion of temporary differences associated with investments in non-U.S. subsidiaries that are essentially permanent in duration. If the Corporation were to record the associated deferred tax liability, the amount would be approximately \$1.0 billion.

NOTE 21 Fair Value Measurements

Under applicable accounting standards, fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. The Corporation determines the fair values of its financial instruments under applicable accounting standards that require an entity to maximize the use of observable inputs and minimize the use of unobservable inputs. The Corporation categorizes its financial instruments into three levels based on the established fair value hierarchy and conducts a review of fair value hierarchy classifications on a quarterly basis. Transfers into or out of fair value hierarchy classifications are made if the significant inputs used in the financial models measuring the fair values of the assets and liabilities become unobservable or observable in the current marketplace. For more information regarding the fair value hierarchy and how the Corporation measures fair value, see *Note 1 – Summary of Significant Accounting Principles*. The Corporation accounts for certain financial instruments under the fair value option. For more information, see *Note 22 – Fair Value Option*.

Valuation Techniques

The following sections outline the valuation methodologies for the Corporation's assets and liabilities. While the Corporation believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different estimate of fair value at the reporting date.

During 2019, there were no significant changes to valuation approaches or techniques that had, or are expected to have, a material impact on the Corporation's consolidated financial position or results of operations.

Trading Account Assets and Liabilities and Debt Securities

The fair values of trading account assets and liabilities are primarily based on actively traded markets where prices are based on either direct market quotes or observed transactions. The fair values of debt securities are generally based on quoted market prices or market prices for similar assets. Liquidity is a significant factor in the determination of the fair values of trading account assets and liabilities and debt securities. Market price quotes may not be readily available for some positions such as positions within a market sector where trading activity has slowed significantly or ceased. Some of these instruments are valued using a discounted

cash flow model, which estimates the fair value of the securities using internal credit risk, and interest rate and prepayment risk models that incorporate management's best estimate of current key assumptions such as default rates, loss severity and prepayment rates. Principal and interest cash flows are discounted using an observable discount rate for similar instruments with adjustments that management believes a market participant would consider in determining fair value for the specific security. Other instruments are valued using a net asset value approach which considers the value of the underlying securities. Underlying assets are valued using external pricing services, where available, or matrix pricing based on the vintages and ratings. Situations of illiquidity generally are triggered by the market's perception of credit uncertainty regarding a single company or a specific market sector. In these instances, fair value is determined based on limited available market information and other factors, principally from reviewing the issuer's financial statements and changes in credit ratings made by one or more rating agencies.

Derivative Assets and Liabilities

The fair values of derivative assets and liabilities traded in the OTC market are determined using quantitative models that utilize multiple market inputs including interest rates, prices and indices to generate continuous yield or pricing curves and volatility factors to value the position. The majority of market inputs are actively quoted and can be validated through external sources, including brokers, market transactions and third-party pricing services. When third-party pricing services are used, the methods and assumptions are reviewed by the Corporation. Estimation risk is greater for derivative asset and liability positions that are either option-based or have longer maturity dates where observable market inputs are less readily available, or are unobservable, in which case, quantitative-based extrapolations of rate, price or index scenarios are used in determining fair values. The fair values of derivative assets and liabilities include adjustments for market liquidity, counterparty credit quality and other instrument-specific factors, where appropriate. In addition, the Corporation incorporates within its fair value measurements of OTC derivatives a valuation adjustment to reflect the credit risk associated with the net position. Positions are netted by counterparty, and fair value for net long exposures is adjusted for counterparty credit risk while the fair value for net short exposures is adjusted for the Corporation's own credit risk. The Corporation also incorporates FVA within its fair value measurements to include funding costs on uncollateralized derivatives and derivatives where the Corporation is not permitted to use the collateral it receives. An estimate of severity of loss is also used in the determination of fair value, primarily based on market data.

Loans and Loan Commitments

The fair values of loans and loan commitments are based on market prices, where available, or discounted cash flow analyses using market-based credit spreads of comparable debt instruments or credit derivatives of the specific borrower or comparable borrowers. Results of discounted cash flow analyses may be adjusted, as appropriate, to reflect other market conditions or the perceived credit risk of the borrower.

Mortgage Servicing Rights

The fair values of MSRs are primarily determined using an option-adjusted spread valuation approach, which factors in prepayment

risk to determine the fair value of MSRs. This approach consists of projecting servicing cash flows under multiple interest rate scenarios and discounting these cash flows using risk-adjusted discount rates.

Loans Held-for-sale

The fair values of LHFS are based on quoted market prices, where available, or are determined by discounting estimated cash flows using interest rates approximating the Corporation's current origination rates for similar loans adjusted to reflect the inherent credit risk. The borrower-specific credit risk is embedded within the quoted market prices or is implied by considering loan performance when selecting comparables.

Short-term Borrowings and Long-term Debt

The Corporation issues structured liabilities that have coupons or repayment terms linked to the performance of debt or equity securities, interest rates, indices, currencies or commodities. The fair values of these structured liabilities are estimated using quantitative models for the combined derivative and debt portions of the notes. These models incorporate observable and, in some instances, unobservable inputs including security prices, interest rate yield curves, option volatility, currency, commodity or equity rates and correlations among these inputs. The Corporation also considers the impact of its own credit spread in determining the discount rate used to value these liabilities. The credit spread is determined by reference to observable spreads in the secondary bond market.

Securities Financing Agreements

The fair values of certain reverse repurchase agreements, repurchase agreements and securities borrowed transactions are determined using quantitative models, including discounted cash flow models that require the use of multiple market inputs including interest rates and spreads to generate continuous yield or pricing curves, and volatility factors. The majority of market inputs are actively quoted and can be validated through external sources, including brokers, market transactions and third-party pricing services.

Deposits

The fair values of deposits are determined using quantitative models, including discounted cash flow models that require the use of multiple market inputs including interest rates and spreads to generate continuous yield or pricing curves, and volatility factors. The majority of market inputs are actively quoted and can be validated through external sources, including brokers, market transactions and third-party pricing services. The Corporation considers the impact of its own credit spread in the valuation of these liabilities. The credit risk is determined by reference to observable credit spreads in the secondary cash market.

Asset-backed Secured Financings

The fair values of asset-backed secured financings are based on external broker bids, where available, or are determined by discounting estimated cash flows using interest rates approximating the Corporation's current origination rates for similar loans adjusted to reflect the inherent credit risk.

Recurring Fair Value

Assets and liabilities carried at fair value on a recurring basis at December 31, 2019 and 2018, including financial instruments that the Corporation accounts for under the fair value option, are summarized in the following tables.

	December 31, 2019					
	Fair Value Measurements					
(Dollars in millions)	Level 1	Level 2	Level 3	Netting Adjustments (1)	Assets/Liabilities at Fair Value	
Assets						
Time deposits placed and other short-term investments	\$ 1,000	\$ —	\$ —	\$ —	\$ 1,000	
Federal funds sold and securities borrowed or purchased under agreements to resell	—	50,364	—	—	50,364	
Trading account assets:						
U.S. Treasury and agency securities (2)	49,517	4,157	—	—	53,674	
Corporate securities, trading loans and other	—	25,226	1,507	—	26,733	
Equity securities	53,597	32,619	239	—	86,455	
Non-U.S. sovereign debt	3,965	23,854	482	—	28,301	
Mortgage trading loans, MBS and ABS:						
U.S. government-sponsored agency guaranteed (2)	—	24,324	—	—	24,324	
Mortgage trading loans, ABS and other MBS	—	8,786	1,553	—	10,339	
Total trading account assets (3)	107,079	118,966	3,781	—	229,826	
Derivative assets	14,079	328,442	2,226	(304,262)	40,485	
AFS debt securities:						
U.S. Treasury and agency securities	67,332	1,196	—	—	68,528	
Mortgage-backed securities:						
Agency	—	122,528	—	—	122,528	
Agency-collateralized mortgage obligations	—	4,641	—	—	4,641	
Non-agency residential	—	653	424	—	1,077	
Commercial	—	15,021	—	—	15,021	
Non-U.S. securities	—	11,989	2	—	11,991	
Other taxable securities	—	3,876	65	—	3,941	
Tax-exempt securities	—	17,804	108	—	17,912	
Total AFS debt securities	67,332	177,708	599	—	245,639	
Other debt securities carried at fair value:						
U.S. Treasury and agency securities	3	—	—	—	3	
Agency MBS	—	3,003	—	—	3,003	
Non-agency residential MBS	—	1,035	299	—	1,334	
Non-U.S. and other securities	400	6,088	—	—	6,488	
Total other debt securities carried at fair value	403	10,126	299	—	10,828	
Loans and leases	—	7,642	693	—	8,335	
Loans held-for-sale	—	3,334	375	—	3,709	
Other assets (4)	11,782	1,376	2,360	—	15,518	
Total assets (5)	\$ 201,675	\$ 697,958	\$ 10,333	\$ (304,262)	\$ 605,704	
Liabilities						
Interest-bearing deposits in U.S. offices	\$ —	\$ 508	\$ —	\$ —	\$ 508	
Federal funds purchased and securities loaned or sold under agreements to repurchase	—	16,008	—	—	16,008	
Trading account liabilities:						
U.S. Treasury and agency securities	13,140	282	—	—	13,422	
Equity securities	38,148	4,144	2	—	42,294	
Non-U.S. sovereign debt	10,751	11,310	—	—	22,061	
Corporate securities and other	—	5,478	15	—	5,493	
Total trading account liabilities	62,039	21,214	17	—	83,270	
Derivative liabilities	11,904	320,479	4,764	(298,918)	38,229	
Short-term borrowings	—	3,941	—	—	3,941	
Accrued expenses and other liabilities	13,927	1,507	—	—	15,434	
Long-term debt	—	33,826	1,149	—	34,975	
Total liabilities (5)	\$ 87,870	\$ 397,483	\$ 5,930	\$ (298,918)	\$ 192,365	

(1) Amounts represent the impact of legally enforceable master netting agreements and also cash collateral held or placed with the same counterparties.

(2) Includes \$26.7 billion of GSE obligations.

(3) Includes securities with a fair value of \$14.7 billion that were segregated in compliance with securities regulations or deposited with clearing organizations. This amount is included in the parenthetical disclosure on the Consolidated Balance Sheet.

(4) Includes MSR of \$1.5 billion which are classified as Level 3 assets.

(5) Total recurring Level 3 assets were 0.42 percent of total consolidated assets, and total recurring Level 3 liabilities were 0.27 percent of total consolidated liabilities.

	December 31, 2018					
	Fair Value Measurements				Assets/Liabilities at Fair Value	
(Dollars in millions)	Level 1	Level 2	Level 3	Netting Adjustments (1)		
Assets						
Time deposits placed and other short-term investments	\$ 1,214	\$ —	\$ —	\$ —	\$	1,214
Federal funds sold and securities borrowed or purchased under agreements to resell	—	56,399	—	—		56,399
Trading account assets:						
U.S. Treasury and agency securities (2)	53,131	1,593	—	—		54,724
Corporate securities, trading loans and other	—	24,630	1,558	—		26,188
Equity securities	53,840	23,163	276	—		77,279
Non-U.S. sovereign debt	5,818	19,210	465	—		25,493
Mortgage trading loans, MBS and ABS:						
U.S. government-sponsored agency guaranteed (2)	—	19,586	—	—		19,586
Mortgage trading loans, ABS and other MBS	—	9,443	1,635	—		11,078
Total trading account assets (3)	112,789	97,625	3,934	—		214,348
Derivative assets	9,967	315,413	3,466	(285,121)		43,725
AFS debt securities:						
U.S. Treasury and agency securities	53,663	1,260	—	—		54,923
Mortgage-backed securities:						
Agency	—	121,826	—	—		121,826
Agency-collateralized mortgage obligations	—	5,530	—	—		5,530
Non-agency residential	—	1,320	597	—		1,917
Commercial	—	14,078	—	—		14,078
Non-U.S. securities	—	9,304	2	—		9,306
Other taxable securities	—	4,403	7	—		4,410
Tax-exempt securities	—	17,376	—	—		17,376
Total AFS debt securities	53,663	175,097	606	—		229,366
Other debt securities carried at fair value:						
U.S. Treasury and agency securities	1,282	—	—	—		1,282
Non-agency residential MBS	—	1,434	172	—		1,606
Non-U.S. and other securities	490	5,357	—	—		5,847
Total other debt securities carried at fair value	1,772	6,791	172	—		8,735
Loans and leases	—	4,011	338	—		4,349
Loans held-for-sale	—	2,400	542	—		2,942
Other assets (4)	15,032	1,775	2,932	—		19,739
Total assets (5)	\$ 194,437	\$ 659,511	\$ 11,990	\$ (285,121)	\$	580,817
Liabilities						
Interest-bearing deposits in U.S. offices	\$ —	\$ 492	\$ —	\$ —	\$	492
Federal funds purchased and securities loaned or sold under agreements to repurchase	—	28,875	—	—		28,875
Trading account liabilities:						
U.S. Treasury and agency securities	7,894	761	—	—		8,655
Equity securities	33,739	4,070	—	—		37,809
Non-U.S. sovereign debt	7,452	9,182	—	—		16,634
Corporate securities and other	—	5,104	18	—		5,122
Total trading account liabilities	49,085	19,117	18	—		68,220
Derivative liabilities	9,931	303,441	4,401	(279,882)		37,891
Short-term borrowings	—	1,648	—	—		1,648
Accrued expenses and other liabilities	18,096	1,979	—	—		20,075
Long-term debt	—	26,872	817	—		27,689
Total liabilities (5)	\$ 77,112	\$ 382,424	\$ 5,236	\$ (279,882)	\$	184,890

(1) Amounts represent the impact of legally enforceable master netting agreements and also cash collateral held or placed with the same counterparties.

(2) Includes \$20.2 billion of GSE obligations.

(3) Includes securities with a fair value of \$16.6 billion that were segregated in compliance with securities regulations or deposited with clearing organizations. This amount is included in the parenthetical disclosure on the Consolidated Balance Sheet.

(4) Includes MSR of \$2.0 billion which are classified as Level 3 assets.

(5) Total recurring Level 3 assets were 0.51 percent of total consolidated assets, and total recurring Level 3 liabilities were 0.25 percent of total consolidated liabilities.

The following tables present a reconciliation of all assets and liabilities measured at fair value on a recurring basis using significant unobservable inputs (Level 3) during 2019, 2018 and 2017, including net realized and unrealized gains (losses) included in earnings and accumulated OCI. Transfers into Level 3 occur

primarily due to decreased price observability, and transfers out of Level 3 occur primarily due to increased price observability. Transfers occur on a regular basis for long-term debt instruments due to changes in the impact of unobservable inputs on the value of the embedded derivative in relation to the instrument as a whole.

Level 3 – Fair Value Measurements ⁽¹⁾

(Dollars in millions)	Gross								Gross Transfers into Level 3	Gross Transfers out of Level 3	Balance December 31	Change in Unrealized Gains (Losses) in Net Income Related to Financial Instruments Still Held (2)
	Balance January 1	Total Realized/Unrealized Gains (Losses) in Net Income (2)	Gains (Losses) in OCI (3)	Purchases	Sales	Issuances	Settlements					
Year Ended December 31, 2019												
Trading account assets:												
Corporate securities, trading loans and other	\$ 1,558	\$ 105	\$ —	\$ 534	\$ (390)	\$ 18	\$ (578)	\$ 699	\$ (439)	\$ 1,507	\$ 29	
Equity securities	276	(12)	—	38	(87)	—	(9)	79	(46)	239	(18)	
Non-U.S. sovereign debt	465	46	(12)	1	—	—	(51)	39	(6)	482	47	
Mortgage trading loans, ABS and other MBS	1,635	99	(2)	662	(899)	—	(175)	738	(505)	1,553	26	
Total trading account assets	3,934	238	(14)	1,235	(1,376)	18	(813)	1,555	(996)	3,781	84	
Net derivative assets (liabilities) (4,5)	(935)	(37)	—	298	(837)	—	(97)	147	(1,077)	(2,538)	228	
AFS debt securities:												
Non-agency residential MBS	597	13	64	—	(73)	—	(40)	206	(343)	424	—	
Non-U.S. securities	2	—	—	—	—	—	—	—	—	2	—	
Other taxable securities	7	2	—	—	—	—	(5)	61	—	65	—	
Tax-exempt securities	—	—	—	—	—	—	—	108	—	108	—	
Total AFS debt securities	606	15	64	—	(73)	—	(45)	375	(343)	599	—	
Other debt securities carried at fair value – Non-agency residential MBS	172	36	—	—	—	—	(17)	155	(47)	299	38	
Loans and leases (6,7)	338	—	—	230	(35)	217	(57)	—	—	693	(1)	
Loans held-for-sale (6,7)	542	48	(6)	12	(71)	36	(245)	59	—	375	22	
Other assets (7)	2,932	(81)	19	—	(10)	179	(683)	5	(1)	2,360	(267)	
Trading account liabilities – Equity securities	—	(2)	—	—	—	—	—	—	—	(2)	(2)	
Trading account liabilities – Corporate securities and other	(18)	8	—	(1)	(3)	(1)	—	—	—	(15)	—	
Long-term debt (5,6)	(817)	(59)	(64)	—	—	(40)	180	(350)	1	(1,149)	(55)	

Year Ended December 31, 2018

Trading account assets:												
Corporate securities, trading loans and other	\$ 1,864	\$ (32)	\$ (1)	\$ 436	\$ (403)	\$ 5	\$ (568)	\$ 804	\$ (547)	\$ 1,558	\$ (117)	
Equity securities	235	(17)	—	44	(11)	—	(4)	78	(49)	276	(22)	
Non-U.S. sovereign debt	556	47	(44)	13	(57)	—	(30)	117	(137)	465	48	
Mortgage trading loans, ABS and other MBS	1,498	148	3	585	(910)	—	(158)	705	(236)	1,635	97	
Total trading account assets	4,153	146	(42)	1,078	(1,381)	5	(760)	1,704	(969)	3,934	6	
Net derivative assets (liabilities) ⁽⁴⁾	(1,714)	106	—	531	(1,179)	—	778	39	504	(935)	(116)	
AFS debt securities:												
Non-agency residential MBS	—	27	(33)	—	(71)	—	(25)	774	(75)	597	—	
Non-U.S. securities	25	—	(1)	—	(10)	—	(15)	3	—	2	—	
Other taxable securities	509	1	(3)	—	(23)	—	(11)	60	(526)	7	—	
Tax-exempt securities	469	—	—	—	—	—	(1)	1	(469)	—	—	
Total AFS debt securities ⁽⁸⁾	1,003	28	(37)	—	(104)	—	(52)	838	(1,070)	606	—	
Other debt securities carried at fair value – Non-agency residential MBS	—	(18)	—	—	(8)	—	(34)	365	(133)	172	(18)	
Loans and leases ^(6,7)	571	(16)	—	—	(134)	—	(83)	—	—	338	(9)	
Loans held-for-sale ⁽⁶⁾	690	44	(26)	71	—	1	(201)	23	(60)	542	31	
Other assets ^(7,8)	2,425	414	(38)	2	(69)	96	(792)	929	(35)	2,932	149	
Trading account liabilities – Corporate securities and other	(24)	11	—	9	(12)	(2)	—	—	—	(18)	(7)	
Accrued expenses and other liabilities ⁽⁶⁾	(8)	—	—	—	—	—	8	—	—	—	—	
Long-term debt ⁽⁶⁾	(1,863)	103	4	9	—	(141)	486	(262)	847	(817)	95	

(1) Assets (liabilities). For assets, increase (decrease) to Level 3 and for liabilities, (increase) decrease to Level 3.

(2) Includes gains (losses) reported in earnings in the following income statement line items: Trading account assets/liabilities - predominantly market making and similar activities; Net derivative assets (liabilities) - market making and similar activities and other income; Other debt securities carried at fair value - other income; Loans and leases - predominantly other income; Loans held-for-sale - other income; Other assets - primarily other income related to MSR; Long-term debt - primarily market making and similar activities.

(3) Includes unrealized gains (losses) in OCI on AFS debt securities, foreign currency translation adjustments and the impact of changes in the Corporation's credit spreads on long-term debt accounted for under the fair value option. Amounts include net unrealized gains (losses) of \$3 million and \$(105) million related to financial instruments still held at December 31, 2019 and 2018.

(4) Net derivative assets (liabilities) include derivative assets of \$2.2 billion and \$3.5 billion and derivative liabilities of \$4.8 billion and \$4.4 billion at December 31, 2019 and 2018.

(5) Transfers into long-term debt include a \$1.4 billion transfer in of Level 3 derivative assets to reflect the Corporation's change to present bifurcated embedded derivatives with their respective host instruments.

(6) Amounts represent instruments that are accounted for under the fair value option.

(7) Issuances represent loan originations and MSR recognized following securitizations or whole-loan sales.

(8) Transfers out of AFS debt securities and into other assets primarily relate to the reclassification of certain securities.

Level 3 – Fair Value Measurements (1)

(Dollars in millions)	Gross								Gross Transfers into Level 3	Gross Transfers out of Level 3	Balance December 31	Change in Unrealized Gains/(Losses) in Net Income Related to Financial Instruments Still Held (2)
	Balance January 1	Total Realized/Unrealized Gains/(Losses) in Net Income (2)	Gains/(Losses) in OCI (3)	Purchases	Sales	Issuances	Settlements					
Year Ended December 31, 2017												
Trading account assets:												
Corporate securities, trading loans and other	\$ 2,777	\$ 229	\$ —	\$ 547	\$ (702)	\$ 5	\$ (666)	\$ 728	\$ (1,054)	\$ 1,864	\$ 2	
Equity securities	281	18	—	55	(70)	—	(10)	146	(185)	235	(1)	
Non-U.S. sovereign debt	510	74	(8)	53	(59)	—	(73)	72	(13)	556	70	
Mortgage trading loans, ABS and other MBS	1,211	165	(2)	1,210	(990)	—	(233)	218	(81)	1,498	72	
Total trading account assets	4,779	486	(10)	1,865	(1,821)	5	(982)	1,164	(1,333)	4,153	143	
Net derivative assets (liabilities) (4)	(1,313)	(984)	—	664	(979)	—	949	48	(99)	(1,714)	(409)	
AFS debt securities:												
Non-U.S. securities	229	2	16	49	—	—	(271)	—	—	25	—	
Other taxable securities	594	4	8	5	—	—	(42)	34	(94)	509	—	
Tax-exempt securities	542	1	3	14	(70)	—	(11)	35	(45)	469	—	
Total AFS debt securities	1,365	7	27	68	(70)	—	(324)	69	(139)	1,003	—	
Other debt securities carried at fair value – Non-agency residential MBS	25	(1)	—	—	(21)	—	(3)	—	—	—	—	
Loans and leases (5)	720	15	—	3	(34)	—	(126)	—	(7)	571	11	
Loans held-for-sale (5,6)	656	100	(3)	3	(189)	—	(346)	501	(32)	690	14	
Other assets (6)	2,986	144	(57)	2	(214)	258	(758)	64	—	2,425	(226)	
Federal funds purchased and securities loaned or sold under agreements to repurchase (5)	(359)	(5)	—	—	—	(12)	171	(58)	263	—	—	
Trading account liabilities – Corporate securities and other	(27)	14	—	8	(17)	(2)	—	—	—	(24)	2	
Accrued expenses and other liabilities (5)	(9)	—	—	—	—	—	1	—	—	(8)	—	
Long-term debt (5)	(1,514)	(135)	(31)	84	—	(288)	514	(711)	218	(1,863)	(196)	

(1) Assets (liabilities). For assets, increase (decrease) to Level 3 and for liabilities, (increase) decrease to Level 3.

(2) Includes gains (losses) reported in earnings in the following income statement line items: Trading account assets/liabilities - market making and similar activities; Net derivative assets (liabilities) - primarily market making and similar activities and other income; Other debt securities carried at fair value - other income; Loans and leases - other income; Loans held-for-sale - other income; Other assets - primarily other income related to MSRs; Long-term debt - predominantly market making and similar activities.

(3) Includes unrealized gains (losses) in OCI on AFS debt securities, foreign currency translation adjustments and the impact of changes in the Corporation's credit spreads on long-term debt accounted for under the fair value option.

(4) Net derivative assets (liabilities) include derivative assets of \$4.1 billion and derivative liabilities of \$5.8 billion.

(5) Amounts represent instruments that are accounted for under the fair value option.

(6) Issuances represent loan originations and MSRs recognized following securitizations or whole-loan sales.

The following tables present information about significant unobservable inputs related to the Corporation's material categories of Level 3 financial assets and liabilities at December 31, 2019 and 2018.

Quantitative Information about Level 3 Fair Value Measurements at December 31, 2019

(Dollars in millions)

(Dollars in millions)		Inputs			
Financial Instrument	Fair Value	Valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average (1)
Loans and Securities (2)					
Instruments backed by residential real estate assets	\$ 1,407	Discounted cash flow, Market comparables	Yield	0% to 25%	6%
Trading account assets – Mortgage trading loans, ABS and other MBS	332		Prepayment speed	1% to 27% CPR	17% CPR
Loans and leases	281		Default rate	0% to 3% CDR	1% CDR
Loans held-for-sale	4		Loss severity	0% to 47%	14%
AFS debt securities, primarily non-agency residential	491		Price	\$0 to \$160	\$94
Other debt securities carried at fair value - Non-agency residential	299				
Instruments backed by commercial real estate assets	\$ 303	Discounted cash flow	Yield	0% to 30%	14%
Trading account assets – Corporate securities, trading loans and other	201		Price	\$0 to \$100	\$55
Trading account assets – Mortgage trading loans, ABS and other MBS	85				
Loans held-for-sale	17				
Commercial loans, debt securities and other	\$ 3,798	Discounted cash flow, Market comparables	Yield	1% to 20%	6%
Trading account assets – Corporate securities, trading loans and other	1,306		Prepayment speed	10% to 20%	13%
Trading account assets – Non-U.S. sovereign debt	482		Default rate	3% to 4%	4%
Trading account assets – Mortgage trading loans, ABS and other MBS	1,136		Loss severity	35% to 40%	38%
AFS debt securities – Other taxable securities	108		Price	\$0 to \$142	\$72
Loans and leases	412		Long-dated equity volatilities	35%	n/a
Loans held-for-sale	354				
Other assets, primarily auction rate securities	\$ 815	Discounted cash flow, Market comparables	Price	\$10 to \$100	\$96
MSRs	\$ 1,545	Discounted cash flow	Weighted-average life, fixed rate (5)	0 to 14 years	5 years
			Weighted-average life, variable rate (5)	0 to 9 years	3 years
			Option-adjusted spread, fixed rate	7% to 14%	9%
			Option-adjusted spread, variable rate	9% to 15%	11%
Structured liabilities					
Long-term debt	\$ (1,149)	Discounted cash flow, Market comparables, Industry standard derivative pricing (3)	Yield	2% to 6%	5%
			Equity correlation	9% to 100%	63%
			Long-dated equity volatilities	4% to 101%	32%
			Price	\$0 to \$116	\$74
			Natural gas forward price	\$1/MMBtu to \$5/MMBtu	\$3/MMBtu
Net derivative assets (liabilities)					
Credit derivatives	\$ 13	Discounted cash flow, Stochastic recovery correlation model	Yield	5%	n/a
			Upfront points	0 to 100 points	63 points
			Prepayment speed	15% to 100% CPR	22% CPR
			Default rate	1% to 4% CDR	2% CDR
			Loss severity	35%	n/a
			Price	\$0 to \$104	\$73
Equity derivatives	\$ (1,081)	Industry standard derivative pricing (3)	Equity correlation	9% to 100%	63%
			Long-dated equity volatilities	4% to 101%	32%
Commodity derivatives	\$ (1,357)	Discounted cash flow, Industry standard derivative pricing (3)	Natural gas forward price	\$1/MMBtu to \$5/MMBtu	\$3/MMBtu
			Correlation	30% to 69%	68%
			Volatilities	14% to 54%	27%
Interest rate derivatives	\$ (113)	Industry standard derivative pricing (4)	Correlation (IR/IR)	15% to 94%	52%
			Correlation (FX/IR)	0% to 46%	2%
			Long-dated inflation rates	-23% to 56%	16%
			Long-dated inflation volatilities	0% to 1%	1%
Total net derivative assets (liabilities)	\$ (2,538)				

(1) For loans and securities, structured liabilities and net derivative assets (liabilities), the weighted average is calculated based upon the absolute fair value of the instruments.

(2) The categories are aggregated based upon product type which differs from financial statement classification. The following is a reconciliation to the line items in the table on page 47: Trading account assets – Corporate securities, trading loans and other of \$1.5 billion, Trading account assets – Non-U.S. sovereign debt of \$482 million, Trading account assets – Mortgage trading loans, ABS and other MBS of \$1.6 billion, AFS debt securities of \$599 million, Other debt securities carried at fair value - Non-agency residential of \$299 million, Other assets, including MSRs, of \$2.4 billion, Loans and leases of \$693 million and LHFS of \$375 million.

(3) Includes models such as Monte Carlo simulation and Black-Scholes.

(4) Includes models such as Monte Carlo simulation, Black-Scholes and other methods that model the joint dynamics of interest, inflation and foreign exchange rates.

(5) The weighted-average life is a product of changes in market rates of interest, prepayment rates and other model and cash flow assumptions.

CPR = Constant Prepayment Rate

CDR = Constant Default Rate

MMBtu = Million British thermal units

IR = Interest Rate

FX = Foreign Exchange

n/a = not applicable

Quantitative Information about Level 3 Fair Value Measurements at December 31, 2018

(Dollars in millions)

Dollars in millions)

Financial Instrument	Fair Value	Valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average (1)
Loans and Securities (2)					
Instruments backed by residential real estate assets	\$ 1,536	Discounted cash flow, Market comparables	Yield	0% to 25%	8%
Trading account assets – Mortgage trading loans, ABS and other MBS	419		Prepayment speed	0% to 21% CPR	12% CPR
Loans and leases	338		Default rate	0% to 3% CDR	1% CDR
Loans held-for-sale	1		Loss severity	0% to 51%	17%
AFS debt securities, primarily non-agency residential	606		Price	\$0 to \$128	\$72
Other debt securities carried at fair value - Non-agency residential	172				
Instruments backed by commercial real estate assets	\$ 291	Discounted cash flow	Yield	0% to 25%	7%
Trading account assets – Corporate securities, trading loans and other	200		Price	\$0 to \$100	\$79
Trading account assets – Mortgage trading loans, ABS and other MBS	91				
Commercial loans, debt securities and other	\$ 3,489	Discounted cash flow, Market comparables	Yield	1% to 18%	13%
Trading account assets – Corporate securities, trading loans and other	1,358		Prepayment speed	10% to 20%	15%
Trading account assets – Non-U.S. sovereign debt	465		Default rate	3% to 4%	4%
Trading account assets – Mortgage trading loans, ABS and other MBS	1,125		Loss severity	35% to 40%	38%
Loans held-for-sale	541		Price	\$0 to \$141	\$68
Other assets, primarily auction rate securities	\$ 890	Discounted cash flow, Market comparables	Price	\$10 to \$100	\$95
MSRs	\$ 2,042	Discounted cash flow	Weighted-average life, fixed rate (5)	0 to 14 years	5 years
			Weighted-average life, variable rate (5)	0 to 10 years	3 years
			Option-adjusted spread, fixed rate	7% to 14%	9%
			Option-adjusted spread, variable rate	9% to 15%	12%
Structured liabilities					
Long-term debt	\$ (817)	Discounted cash flow, Market comparables, Industry standard derivative pricing (3)	Equity correlation	11% to 100%	67%
			Long-dated equity volatilities	4% to 84%	32%
			Yield	7% to 18%	16%
			Price	\$0 to \$100	\$72
Net derivative assets (liabilities)					
Credit derivatives	\$ (565)	Discounted cash flow, Stochastic recovery correlation model	Yield	0% to 5%	4%
			Upfront points	0 points to 100 points	70 points
			Credit correlation	70%	n/a
			Prepayment speed	15% to 20% CPR	15% CPR
			Default rate	1% to 4% CDR	2% CDR
			Loss severity	35%	n/a
			Price	\$0 to \$138	\$93
Equity derivatives	\$ (348)	Industry standard derivative pricing (3)	Equity correlation	11% to 100%	67%
			Long-dated equity volatilities	4% to 84%	32%
Commodity derivatives	\$ 10	Discounted cash flow, Industry standard derivative pricing (3)	Natural gas forward price	\$1/MMBtu to \$12/MMBtu	\$3/MMBtu
			Correlation	38% to 87%	71%
			Volatilities	15% to 132%	38%
Interest rate derivatives	\$ (32)	Industry standard derivative pricing (4)	Correlation (IR/IR)	15% to 70%	61%
			Correlation (FX/IR)	0% to 46%	1%
			Long-dated inflation rates	-20% to 38%	2%
			Long-dated inflation volatilities	0% to 1%	1%
Total net derivative assets (liabilities)	\$ (935)				

(1) For loans and securities, structured liabilities and net derivative assets (liabilities), the weighted average is calculated based upon the absolute fair value of the instruments.

(2) The categories are aggregated based upon product type which differs from financial statement classification. The following is a reconciliation to the line items in the table on page 48: Trading account assets – Corporate securities, trading loans and other of \$1.6 billion, Trading account assets – Non-U.S. sovereign debt of \$465 million, Trading account assets – Mortgage trading loans, ABS and other MBS of \$1.6 billion, AFS debt securities of \$606 million, Other debt securities carried at fair value - Non-agency residential of \$172 million, Other assets, including MSRs, of \$2.9 billion, Loans and leases of \$338 million and LHFS of \$542 million.

(3) Includes models such as Monte Carlo simulation and Black-Scholes.

(4) Includes models such as Monte Carlo simulation, Black-Scholes and other methods that model the joint dynamics of interest, inflation and foreign exchange rates.

(5) The weighted-average life is a product of changes in market rates of interest, prepayment rates and other model and cash flow assumptions.

CPR = Constant Prepayment Rate

CDR = Constant Default Rate

MMBtu = Million British thermal units

IR = Interest Rate

FX = Foreign Exchange

n/a = not applicable

In the previous tables, instruments backed by residential and commercial real estate assets include RMBS, commercial MBS, whole loans and mortgage CDOs. Commercial loans, debt securities and other include corporate CLOs and CDOs, commercial loans and bonds, and securities backed by non-real estate assets. Structured liabilities primarily include equity-linked notes that are accounted for under the fair value option.

The Corporation uses multiple market approaches in valuing certain of its Level 3 financial instruments. For example, market comparables and discounted cash flows are used together. For a given product, such as corporate debt securities, market comparables may be used to estimate some of the unobservable inputs and then these inputs are incorporated into a discounted cash flow model. Therefore, the balances disclosed encompass both of these techniques.

The level of aggregation and diversity within the products disclosed in the tables result in certain ranges of inputs being wide and unevenly distributed across asset and liability categories.

Uncertainty of Fair Value Measurements from Unobservable Inputs

Loans and Securities

A significant increase in market yields, default rates, loss severities or duration would have resulted in a significantly lower fair value for long positions. Short positions would have been impacted in a directionally opposite way. The impact of changes in prepayment speeds would have resulted in differing impacts depending on the seniority of the instrument and, in the case of CLOs, whether prepayments can be reinvested. A significant increase in price would have resulted in a significantly higher fair value for long positions, and short positions would have been impacted in a directionally opposite way.

Structured Liabilities and Derivatives

For credit derivatives, a significant increase in market yield, upfront points (i.e., a single upfront payment made by a protection buyer at inception), credit spreads, default rates or loss severities would

have resulted in a significantly lower fair value for protection sellers and higher fair value for protection buyers. The impact of changes in prepayment speeds would have resulted in differing impacts depending on the seniority of the instrument.

Structured credit derivatives are impacted by credit correlation. Default correlation is a parameter that describes the degree of dependence among credit default rates within a credit portfolio that underlies a credit derivative instrument. The sensitivity of this input on the fair value varies depending on the level of subordination of the tranche. For senior tranches that are net purchases of protection, a significant increase in default correlation would have resulted in a significantly higher fair value. Net short protection positions would have been impacted in a directionally opposite way.

For equity derivatives, commodity derivatives, interest rate derivatives and structured liabilities, a significant change in long-dated rates and volatilities and correlation inputs (i.e., the degree of correlation between an equity security and an index, between two different commodities, between two different interest rates, or between interest rates and foreign exchange rates) would have resulted in a significant impact to the fair value; however, the magnitude and direction of the impact depend on whether the Corporation is long or short the exposure. For structured liabilities, a significant increase in yield or decrease in price would have resulted in a significantly lower fair value.

Nonrecurring Fair Value

The Corporation holds certain assets that are measured at fair value only in certain situations (e.g., the impairment of an asset), and these measurements are referred to herein as nonrecurring. The amounts below represent assets still held as of the reporting date for which a nonrecurring fair value adjustment was recorded during 2019, 2018 and 2017. In the tables below, other assets includes the measurement of the Corporation's merchant services equity method investment on which the Corporation recorded an impairment charge of \$2.1 billion during 2019. For more information, see *Note 13 – Commitments and Contingencies*.

Assets Measured at Fair Value on a Nonrecurring Basis

(Dollars in millions)

Assets

	December 31, 2019		December 31, 2018	
	Level 2	Level 3	Level 2	Level 3
Loans held-for-sale	\$ 53	\$ 102	\$ 274	\$ —
Loans and leases (1)	—	257	—	474
Foreclosed properties (2, 3)	—	17	—	42
Other assets	178	646	331	14

Assets

	Gains (Losses)		
	2019	2018	2017
Loans held-for-sale	\$ (14)	\$ (18)	\$ (6)
Loans and leases (1)	(81)	(202)	(336)
Foreclosed properties	(9)	(24)	(41)
Other assets	(2,145)	(64)	(124)

(1) Includes \$36 million, \$83 million and \$135 million of losses on loans that were written down to a collateral value of zero during 2019, 2018 and 2017, respectively.

(2) Amounts are included in other assets on the Consolidated Balance Sheet and represent the carrying value of foreclosed properties that were written down subsequent to their initial classification as foreclosed properties. Losses on foreclosed properties include losses recorded during the first 90 days after transfer of a loan to foreclosed properties.

(3) Excludes \$260 million and \$488 million of properties acquired upon foreclosure of certain government-guaranteed loans (principally FHA-insured loans) at December 31, 2019 and 2018.

The table below presents information about significant unobservable inputs at December 31, 2019 and 2018.

Quantitative Information about Nonrecurring Level 3 Fair Value Measurements

Financial Instrument	Fair Value	Valuation Technique	Inputs		
			Significant Unobservable Inputs	Ranges of Inputs	Weighted Average (1)
(Dollars in millions)			December 31, 2019		
Loans held-for-sale	\$ 102	Discounted cash flow	Price	\$85 to \$97	\$88
Loans and leases (2)	257	Market comparables	OREO discount	13% to 59%	24 %
			Costs to sell	8% to 26%	9 %
Other assets (3)	640	Discounted cash flow	Customer attrition	0% to 19%	5 %
			Costs to service	11% to 19%	15 %
			December 31, 2018		
Loans and leases (2)	\$ 474	Market comparables	OREO discount	13% to 59%	25 %
			Costs to sell	8% to 26%	9 %

(1) The weighted average is calculated based upon the fair value of the loans.

(2) Represents residential mortgages where the loan has been written down to the fair value of the underlying collateral.

(3) The fair value of the merchant services joint venture was measured using a discounted cash flow method in which the two primary drivers of fair value were the customer attrition rate and certain costs to service the customers. The weighted averages are calculated based on variations of the attrition rates and costs to service the customers.

NOTE 22 Fair Value Option

Loans and Loan Commitments

The Corporation elects to account for certain loans and loan commitments that exceed the Corporation's single-name credit risk concentration guidelines under the fair value option. Lending commitments are actively managed and, as appropriate, credit risk for these lending relationships may be mitigated through the use of credit derivatives, with the Corporation's public side credit view and market perspectives determining the size and timing of the hedging activity. These credit derivatives do not meet the requirements for designation as accounting hedges and therefore are carried at fair value. The fair value option allows the Corporation to carry these loans and loan commitments at fair value, which is more consistent with management's view of the underlying economics and the manner in which they are managed. In addition, the fair value option allows the Corporation to reduce the accounting volatility that would otherwise result from the asymmetry created by accounting for the financial instruments at historical cost and the credit derivatives at fair value.

Loans Held-for-sale

The Corporation elects to account for residential mortgage LHFS, commercial mortgage LHFS and certain other LHFS under the fair value option. These loans are actively managed and monitored and, as appropriate, certain market risks of the loans may be mitigated through the use of derivatives. The Corporation has elected not to designate the derivatives as qualifying accounting hedges, and therefore, they are carried at fair value. The changes in fair value of the loans are largely offset by changes in the fair value of the derivatives. The fair value option allows the Corporation to reduce the accounting volatility that would otherwise result from the asymmetry created by accounting for the financial instruments at the lower of cost or fair value and the derivatives at fair value. The Corporation has not elected to account for certain other LHFS under the fair value option primarily because these loans are floating-rate loans that are not hedged using derivative instruments.

Loans Reported as Trading Account Assets

The Corporation elects to account for certain loans that are held for the purpose of trading and are risk-managed on a fair value basis under the fair value option.

Other Assets

The Corporation elects to account for certain long-term fixed-rate margin loans that are hedged with derivatives under the fair value option. Election of the fair value option allows the Corporation to reduce the accounting volatility that would otherwise result from the asymmetry created by accounting for the financial instruments at historical cost and the derivatives at fair value.

Securities Financing Agreements

The Corporation elects to account for certain securities financing agreements, including resale and repurchase agreements, under the fair value option based on the tenor of the agreements, which reflects the magnitude of the interest rate risk. The majority of securities financing agreements collateralized by U.S. government securities are not accounted for under the fair value option as these contracts are generally short-dated and therefore the interest rate risk is not significant.

Long-term Deposits

The Corporation elects to account for certain long-term fixed-rate and rate-linked deposits that are hedged with derivatives that do not qualify for hedge accounting under the fair value option. Election of the fair value option allows the Corporation to reduce the accounting volatility that would otherwise result from the asymmetry created by accounting for the financial instruments at historical cost and the derivatives at fair value. The Corporation has not elected to carry other long-term deposits at fair value because they are not hedged using derivatives.

Short-term Borrowings

The Corporation elects to account for certain short-term borrowings, primarily short-term structured liabilities, under the fair value option because this debt is risk-managed on a fair value basis.

The Corporation elects to account for certain asset-backed secured financings, which are also classified in short-term borrowings, under the fair value option. Election of the fair value option allows the Corporation to reduce the accounting volatility that would otherwise result from the asymmetry created by accounting for the asset-backed secured financings at historical cost and the corresponding mortgage LHFS securing these financings at fair value.

Long-term Debt

The Corporation elects to account for certain long-term debt, primarily structured liabilities, under the fair value option. This long-term debt is either risk-managed on a fair value basis or the related hedges do not qualify for hedge accounting.

assets and liabilities accounted for under the fair value option at December 31, 2019 and 2018, and information about where changes in the fair value of assets and liabilities accounted for under the fair value option are included in the Consolidated Statement of Income for 2019, 2018 and 2017.

Fair Value Option Elections

The following tables provide information about the fair value carrying amount and the contractual principal outstanding of

Fair Value Option Elections

	December 31, 2019			December 31, 2018		
	Fair Value Carrying Amount	Contractual Principal Outstanding	Fair Value Carrying Amount Less Unpaid Principal	Fair Value Carrying Amount	Contractual Principal Outstanding	Fair Value Carrying Amount Less Unpaid Principal
(Dollars in millions)						
Federal funds sold and securities borrowed or purchased under agreements to resell	\$ 50,364	\$ 50,318	\$ 46	\$ 56,399	\$ 56,376	\$ 23
Loans reported as trading account assets (1)	6,989	14,703	(7,714)	6,195	13,088	(6,893)
Trading inventory – other	19,574	n/a	n/a	13,778	n/a	n/a
Consumer and commercial loans	8,335	8,372	(37)	4,349	4,399	(50)
Loans held-for-sale (1)	3,709	4,879	(1,170)	2,942	4,749	(1,807)
Other assets	4	n/a	n/a	3	n/a	n/a
Long-term deposits	508	496	12	492	454	38
Federal funds purchased and securities loaned or sold under agreements to repurchase	16,008	16,029	(21)	28,875	28,881	(6)
Short-term borrowings	3,941	3,930	11	1,648	1,648	—
Unfunded loan commitments	90	n/a	n/a	169	n/a	n/a
Long-term debt (2)	34,975	35,730	(755)	27,689	29,198	(1,509)

(1) A significant portion of the loans reported as trading account assets and LHFS are distressed loans that were purchased at a deep discount to par, and the remainder are loans with a fair value near contractual principal outstanding.

(2) Includes structured liabilities with a fair value of \$34.6 billion and \$27.3 billion, and contractual principal outstanding of \$35.3 billion and \$28.8 billion at December 31, 2019 and 2018.

n/a = not applicable

Gains (Losses) Relating to Assets and Liabilities Accounted for Under the Fair Value Option

	Market making and similar activities		Other Income		Total
(Dollars in millions)	2019				
Loans reported as trading account assets	\$	203	\$	—	\$ 203
Trading inventory – other (1)		5,795		—	5,795
Consumer and commercial loans		92		12	104
Loans held-for-sale (2)		—		98	98
Long-term debt (3)		(1,098)		(78)	(1,176)
Other (4)		(15)		52	37
Total (5)	\$	4,977	\$	84	\$ 5,061

	2018		
Loans reported as trading account assets	\$ 8	\$ —	\$ 8
Trading inventory – other (1)	1,750	—	1,750
Consumer and commercial loans	(422)	(53)	(475)
Loans held-for-sale (2)	1	24	25
Long-term debt (3)	2,157	(93)	2,064
Other (4)	8	(31)	(23)
Total (5)	\$ 3,502	\$ (153)	\$ 3,349

	2017		
Loans reported as trading account assets	\$ 318	\$ —	\$ 318
Trading inventory – other (1)	3,821	—	3,821
Consumer and commercial loans	(9)	35	26
Loans held-for-sale (2)	—	298	298
Long-term debt (3)	(1,044)	(146)	(1,190)
Other (4)	(93)	49	(44)
Total (5)	\$ 2,993	\$ 236	\$ 3,229

(1) The gains in market making and similar activities are primarily offset by losses on trading liabilities that hedge these assets.

(2) Includes the value of IRLCs on funded loans, including those sold during the period.

(3) The net gains (losses) in market making and similar activities relate to the embedded derivatives in structured liabilities and are typically offset by (losses) gains on derivatives and securities that hedge these liabilities. For the cumulative impact of changes in the Corporation's own credit spreads and the amount recognized in accumulated OCI, see Note 15 – Accumulated Other Comprehensive Income (Loss). For more information on how the Corporation's own credit spread is determined, see Note 21 – Fair Value Measurements.

(4) Includes gains (losses) on federal funds sold and securities borrowed or purchased under agreements to resell, long-term deposits, federal funds purchased and securities loaned or sold under agreements to repurchase, short-term borrowings and unfunded loan commitments.

(5) Gains (losses) related to borrower-specific credit risk were \$194 million, \$(148) million and \$38 million in 2019, 2018 and 2017, respectively.

NOTE 23 Fair Value of Financial Instruments

Financial instruments are classified within the fair value hierarchy using the methodologies described in *Note 21 – Fair Value Measurements*. Certain loans, deposits, long-term debt and unfunded lending commitments are accounted for under the fair value option. For more information, see *Note 22 – Fair Value Option*. The following disclosures include financial instruments that are not carried at fair value or only a portion of the ending balance is carried at fair value on the Consolidated Balance Sheet.

Short-term Financial Instruments

The carrying value of short-term financial instruments, including cash and cash equivalents, certain time deposits placed and other short-term investments, federal funds sold and purchased, certain resale and repurchase agreements and short-term borrowings, approximates the fair value of these instruments. These financial instruments generally expose the Corporation to limited credit risk and have no stated maturities or have short-term maturities and carry interest rates that approximate market. The Corporation accounts for certain resale and repurchase agreements under the fair value option.

Under the fair value hierarchy, cash and cash equivalents are classified as Level 1. Time deposits placed and other short-term investments, such as U.S. government securities and short-term commercial paper, are classified as Level 1 or Level 2. Federal funds sold and purchased are classified as Level 2. Resale and repurchase agreements are classified as Level 2 because they are generally short-dated and/or variable-rate instruments collateralized by U.S. government or agency securities. Short-term borrowings are classified as Level 2.

Fair Value of Financial Instruments

The carrying values and fair values by fair value hierarchy of certain financial instruments where only a portion of the ending balance was carried at fair value at December 31, 2019 and 2018 are presented in the following table.

Fair Value of Financial Instruments

		Fair Value			
	Carrying Value	Level 2	Level 3	Total	
(Dollars in millions)	December 31, 2019				
Financial assets					
Loans	\$ 950,093	\$ 63,633	\$ 914,597	\$ 978,230	
Loans held-for-sale	9,158	8,439	719	9,158	
Financial liabilities					
Deposits (1)	1,434,803	1,434,809	—	1,434,809	
Long-term debt	240,856	247,376	1,149	248,525	
Commercial unfunded lending commitments (2)	903	90	4,777	4,867	
	December 31, 2018				
Financial assets					
Loans	\$ 911,520	\$ 58,228	\$ 859,160	\$ 917,388	
Loans held-for-sale	10,367	9,592	775	10,367	
Financial liabilities					
Deposits (1)	1,381,476	1,381,239	—	1,381,239	
Long-term debt	229,392	230,019	817	230,836	
Commercial unfunded lending commitments (2)	966	169	5,558	5,727	

(1) Includes demand deposits of \$545.5 billion and \$531.9 billion with no stated maturities at December 31, 2019 and 2018.

(2) The carrying value of commercial unfunded lending commitments is included in accrued expenses and other liabilities on the Consolidated Balance Sheet. The Corporation does not estimate the fair value of consumer unfunded lending commitments because, in many instances, the Corporation can reduce or cancel these commitments by providing notice to the borrower. For more information on commitments, see *Note 13 – Commitments and Contingencies*.

NOTE 24 Business Segment Information

The Corporation reports its results of operations through the following four business segments: *Consumer Banking*, *GWIM*, *Global Banking* and *Global Markets*, with the remaining operations recorded in *All Other*.

Consumer Banking

Consumer Banking offers a diversified range of credit, banking and investment products and services to consumers and small businesses. *Consumer Banking* product offerings include traditional savings accounts, money market savings accounts, CDs and IRAs, checking accounts, and investment accounts and products, as well as credit and debit cards, residential mortgages and home equity loans, and direct and indirect loans to consumers and small businesses in the U.S. *Consumer Banking* includes the impact of servicing residential mortgages and home equity loans in the core portfolio.

Global Wealth & Investment Management

GWIM provides a high-touch client experience through a network of financial advisors focused on clients with over \$250,000 in total investable assets, including tailored solutions to meet clients' needs through a full set of investment management, brokerage, banking and retirement products. *GWIM* also provides comprehensive wealth management solutions targeted to high net worth and ultra high net worth clients, as well as customized solutions to meet clients' wealth structuring, investment management, trust and banking needs, including specialty asset management services.

Global Banking

Global Banking provides a wide range of lending-related products and services, integrated working capital management and treasury solutions, and underwriting and advisory services through the Corporation's network of offices and client relationship teams. *Global Banking* also provides investment banking products to clients. The economics of certain investment banking and underwriting activities are shared primarily between *Global Banking* and *Global Markets* under an internal revenue-sharing arrangement. *Global Banking* clients generally include middle-market companies, commercial real estate firms, not-for-profit companies, large global corporations, financial institutions, leasing clients, and mid-sized U.S.-based businesses requiring customized and integrated financial advice and solutions.

Global Markets

Global Markets offers sales and trading services and research services to institutional clients across fixed-income, credit, currency, commodity and equity businesses. *Global Markets* provides market-making, financing, securities clearing, settlement and custody services globally to institutional investor clients in support of their investing and trading activities. *Global Markets* product coverage includes securities and derivative products in both the primary and secondary markets. *Global Markets* also works with commercial and corporate clients to provide risk management products. As a result of market-making activities, *Global Markets* may be required to manage risk in a broad range of financial products. In addition, the economics of certain investment banking and underwriting activities are shared primarily between *Global Markets* and *Global Banking* under an internal revenue-sharing arrangement.

All Other

All Other consists of ALM activities, equity investments, non-core mortgage loans and servicing activities, liquidating businesses and certain expenses not otherwise allocated to business segments. ALM activities encompass certain residential mortgages, debt securities, interest rate and foreign currency risk management activities. Substantially all of the results of ALM activities are allocated to the business segments. Equity investments include the merchant services joint venture as well as a portfolio of equity, real estate and other alternative investments.

Basis of Presentation

The management accounting and reporting process derives segment and business results by utilizing allocation methodologies for revenue and expense. The net income derived for the businesses is dependent upon revenue and cost allocations using an activity-based costing model, funds transfer pricing, and other methodologies and assumptions management believes are appropriate to reflect the results of the business.

Total revenue, net of interest expense, includes net interest income on an FTE basis and noninterest income. The adjustment of net interest income to an FTE basis results in a corresponding increase in income tax expense. The segment results also reflect certain revenue and expense methodologies that are utilized to determine net income. The net interest income of the businesses includes the results of a funds transfer pricing process that matches assets and liabilities with similar interest rate sensitivity

and maturity characteristics. In segments where the total of liabilities and equity exceeds assets, which are generally deposit-taking segments, the Corporation allocates assets to match liabilities. Net interest income of the business segments also includes an allocation of net interest income generated by certain of the Corporation's ALM activities.

The Corporation's ALM activities include an overall interest rate risk management strategy that incorporates the use of various derivatives and cash instruments to manage fluctuations in earnings and capital that are caused by interest rate volatility. The Corporation's goal is to manage interest rate sensitivity so that movements in interest rates do not significantly adversely affect earnings and capital. The results of substantially all of the Corporation's ALM activities are allocated to the business segments and fluctuate based on the performance of the ALM activities. ALM activities include external product pricing decisions including deposit pricing strategies, the effects of the Corporation's internal funds transfer pricing process and the net effects of other ALM activities.

Certain expenses not directly attributable to a specific business segment are allocated to the segments. The costs of certain centralized or shared functions are allocated based on methodologies that reflect utilization.

The following table presents net income (loss) and the components thereto (with net interest income on an FTE basis for the business segments, *All Other* and the total Corporation) for 2019, 2018 and 2017, and total assets at December 31, 2019 and 2018 for each business segment, as well as *All Other*.

Results of Business Segments and All Other

At and for the year ended December 31

(Dollars in millions)

	Total Corporation (1)			Consumer Banking		
	2019	2018	2017	2019	2018	2017
Net interest income	\$ 49,486	\$ 48,772	\$ 46,164	\$ 28,158	\$ 27,025	\$ 24,203
Noninterest income	42,353	42,858	41,887	10,429	10,593	10,101
Total revenue, net of interest expense	91,839	91,630	88,051	38,587	37,618	34,304
Provision for credit losses	3,590	3,282	3,396	3,772	3,664	3,525
Noninterest expense	54,900	53,154	54,517	17,618	17,672	17,847
Income before income taxes	33,349	35,194	30,138	17,197	16,282	12,932
Income tax expense	5,919	7,047	11,906	4,213	4,150	4,897
Net income	\$ 27,430	\$ 28,147	\$ 18,232	\$ 12,984	\$ 12,132	\$ 8,035
Period-end total assets	\$ 2,434,079	\$ 2,354,507		\$ 804,019	\$ 768,881	

	Global Wealth & Investment Management			Global Banking		
	2019	2018	2017	2019	2018	2017
Net interest income	\$ 6,504	\$ 6,265	\$ 6,152	\$ 10,675	\$ 10,993	\$ 10,615
Noninterest income	13,033	13,188	12,447	9,808	9,008	9,510
Total revenue, net of interest expense	19,537	19,453	18,599	20,483	20,001	20,125
Provision for credit losses	82	86	56	414	8	212
Noninterest expense	13,823	14,015	13,770	9,017	8,745	8,811
Income before income taxes	5,632	5,352	4,773	11,052	11,248	11,102
Income tax expense	1,380	1,364	1,807	2,984	2,923	4,204
Net income	\$ 4,252	\$ 3,988	\$ 2,966	\$ 8,068	\$ 8,325	\$ 6,898
Period-end total assets	\$ 299,756	\$ 305,907		\$ 464,032	\$ 442,330	

	Global Markets			All Other		
	2019	2018	2017	2019	2018	2017
Net interest income	\$ 3,915	\$ 3,857	\$ 4,264	\$ 234	\$ 632	\$ 930
Noninterest income	11,699	12,326	11,698	(2,616)	(2,257)	(1,869)
Total revenue, net of interest expense	15,614	16,183	15,962	(2,382)	(1,625)	(939)
Provision for credit losses	(9)	—	164	(669)	(476)	(561)
Noninterest expense	10,722	10,835	10,997	3,720	1,887	3,092
Income (loss) before income taxes	4,901	5,348	4,801	(5,433)	(3,036)	(3,470)
Income tax expense (benefit)	1,397	1,390	1,666	(4,055)	(2,780)	(668)
Net income (loss)	\$ 3,504	\$ 3,958	\$ 3,135	\$ (1,378)	\$ (256)	\$ (2,802)
Period-end total assets	\$ 641,806	\$ 641,923		\$ 224,466	\$ 195,466	

(1) There were no material intersegment revenues.

The table below presents noninterest income and the components thereto for 2019, 2018 and 2017 for each business segment, *All Other* and the total Corporation. For more information, see *Note 2 – Net Interest Income and Noninterest Income*

Noninterest Income by Business Segment and All Other

	Total Corporation			Consumer Banking			Global Wealth & Investment Management		
	2019	2018	2017	2019	2018	2017	2019	2018	2017
(Dollars in millions)									
Fees and commissions:									
Card income									
Interchange fees	\$ 3,834	\$ 3,866	\$ 3,777	\$ 3,174	\$ 3,196	\$ 3,038	\$ 60	\$ 81	\$ 109
Other card income	1,963	1,958	1,899	1,910	1,906	1,846	41	46	44
Total card income	5,797	5,824	5,676	5,084	5,102	4,884	101	127	153
Service charges									
Deposit-related fees	6,588	6,667	6,708	4,219	4,300	4,266	68	73	77
Lending-related fees	1,086	1,100	1,110	—	—	—	—	—	—
Total service charges	7,674	7,767	7,818	4,219	4,300	4,266	68	73	77
Investment and brokerage services									
Asset management fees	10,241	10,189	9,310	144	147	133	10,130	10,042	9,177
Brokerage fees	3,661	3,971	4,526	149	172	184	1,740	1,917	2,217
Total investment and brokerage services	13,902	14,160	13,836	293	319	317	11,870	11,959	11,394
Investment banking fees									
Underwriting income	2,998	2,722	2,821	—	(1)	—	401	335	316
Syndication fees	1,184	1,347	1,499	—	—	—	—	—	—
Financial advisory services	1,460	1,258	1,691	—	—	—	—	2	2
Total investment banking fees	5,642	5,327	6,011	—	(1)	—	401	337	318
Total fees and commissions	33,015	33,078	33,341	9,596	9,720	9,467	12,440	12,496	11,942
Market making and similar activities	9,034	9,008	7,102	6	8	3	113	112	144
Other income	304	772	1,444	827	865	631	480	580	361
Total noninterest income	\$ 42,353	\$ 42,858	\$ 41,887	\$ 10,429	\$ 10,593	\$ 10,101	\$ 13,033	\$ 13,188	\$ 12,447

	Global Banking			Global Markets			All Other (1)		
	2019	2018	2017	2019	2018	2017	2019	2018	2017
Fees and commissions:									
Card income									
Interchange fees	\$ 519	\$ 503	\$ 478	\$ 81	\$ 86	\$ 86	\$ —	\$ —	\$ 66
Other card income	13	8	12	(1)	(2)	(2)	—	—	(1)
Total card income	532	511	490	80	84	84	—	—	65
Service charges									
Deposit-related fees	2,121	2,111	2,197	156	161	147	24	22	21
Lending-related fees	894	916	928	192	184	182	—	—	—
Total service charges	3,015	3,027	3,125	348	345	329	24	22	21
Investment and brokerage services									
Asset management fees	—	—	—	—	—	—	(33)	—	—
Brokerage fees	34	94	97	1,738	1,780	2,049	—	8	(21)
Total investment and brokerage services	34	94	97	1,738	1,780	2,049	(33)	8	(21)
Investment banking fees									
Underwriting income	1,227	1,090	1,172	1,555	1,495	1,588	(185)	(197)	(255)
Syndication fees	574	648	742	610	698	756	—	1	1
Financial advisory services	1,336	1,153	1,557	123	103	133	1	—	(1)
Total investment banking fees	3,137	2,891	3,471	2,288	2,296	2,477	(184)	(196)	(255)
Total fees and commissions	6,718	6,523	7,183	4,454	4,505	4,939	(193)	(166)	(190)
Market making and similar activities	235	260	134	7,065	7,260	6,203	1,615	1,368	618
Other income	2,855	2,225	2,193	180	561	556	(4,038)	(3,459)	(2,297)
Total noninterest income	\$ 9,808	\$ 9,008	\$ 9,510	\$ 11,699	\$ 12,326	\$ 11,698	\$ (2,616)	\$ (2,257)	\$ (1,869)

(1) *All Other* includes eliminations of intercompany transactions.

Business Segment Reconciliations

(Dollars in millions)

	2019	2018	2017
Segments' total revenue, net of interest expense	\$ 94,221	\$ 93,255	\$ 88,990
Adjustments (1):			
ALM activities	241	(325)	161
Liquidating businesses, eliminations and other	(2,623)	(1,300)	(1,100)
FTE basis adjustment	(595)	(610)	(925)
Consolidated revenue, net of interest expense	\$ 91,244	\$ 91,020	\$ 87,126
Segments' total net income	28,808	28,403	21,034
Adjustments, net-of-tax (1):			
ALM activities	202	(222)	154
Liquidating businesses, eliminations and other	(1,580)	(34)	(2,956)
Consolidated net income	\$ 27,430	\$ 28,147	\$ 18,232

	December 31	
	2019	2018
Segments' total assets	\$ 2,209,613	\$ 2,159,041
Adjustments (1):		
ALM activities, including securities portfolio	721,806	669,204
Elimination of segment asset allocations to match liabilities	(565,346)	(540,798)
Other	68,006	67,060
Consolidated total assets	\$ 2,434,079	\$ 2,354,507

(1) Adjustments include consolidated income, expense and asset amounts not specifically allocated to individual business segments.

NOTE 25 Parent Company Information

The following tables present the Parent Company-only financial information.

Condensed Statement of Income

(Dollars in millions)

	2019	2018	2017
Income			
Dividends from subsidiaries:			
Bank holding companies and related subsidiaries	\$ 27,820	\$ 28,575	\$ 12,088
Nonbank companies and related subsidiaries	—	91	202
Interest from subsidiaries	9,502	8,425	7,043
Other income (loss)	74	(1,025)	28
Total income	37,396	36,066	19,361
Expense			
Interest on borrowed funds from related subsidiaries	451	235	189
Other interest expense	5,899	6,425	5,555
Noninterest expense	1,641	1,600	1,672
Total expense	7,991	8,260	7,416
Income before income taxes and equity in undistributed earnings of subsidiaries	29,405	27,806	11,945
Income tax expense (benefit)	341	(281)	950
Income before equity in undistributed earnings of subsidiaries	29,064	28,087	10,995
Equity in undistributed earnings (losses) of subsidiaries:			
Bank holding companies and related subsidiaries	(1,717)	306	8,725
Nonbank companies and related subsidiaries	83	(246)	(1,488)
Total equity in undistributed earnings of subsidiaries	(1,634)	60	7,237
Net income	\$ 27,430	\$ 28,147	\$ 18,232

Condensed Balance Sheet

	December 31	
	2019	2018
(Dollars in millions)		
Assets		
Cash held at bank subsidiaries ⁽¹⁾	\$ 5,695	\$ 5,141
Securities	656	628
Receivables from subsidiaries:		
Bank holding companies and related subsidiaries	173,301	152,905
Banks and related subsidiaries	51	195
Nonbank companies and related subsidiaries	391	969
Investments in subsidiaries:		
Bank holding companies and related subsidiaries	297,465	293,045
Nonbank companies and related subsidiaries	3,663	3,432
Other assets	9,438	14,696
Total assets	\$ 490,660	\$ 471,011
Liabilities and shareholders' equity		
Accrued expenses and other liabilities	\$ 13,381	\$ 8,828
Payables to subsidiaries:		
Banks and related subsidiaries	458	349
Nonbank companies and related subsidiaries	12,102	13,301
Long-term debt	199,909	183,208
Total liabilities	225,850	205,686
Shareholders' equity	264,810	265,325
Total liabilities and shareholders' equity	\$ 490,660	\$ 471,011

(1) Balance includes third-party cash held of \$4 million and \$389 million at December 31, 2019 and 2018.

Condensed Statement of Cash Flows

	2019	2018	2017
(Dollars in millions)			
Operating activities			
Net income	\$ 27,430	\$ 28,147	\$ 18,232
Reconciliation of net income to net cash provided by (used in) operating activities:			
Equity in undistributed (earnings) losses of subsidiaries	1,634	(60)	(7,237)
Other operating activities, net	16,973	(3,706)	(2,593)
Net cash provided by operating activities	46,037	24,381	8,402
Investing activities			
Net sales (purchases) of securities	(17)	51	312
Net payments to subsidiaries	(19,121)	(2,262)	(7,087)
Other investing activities, net	7	48	(1)
Net cash used in investing activities	(19,131)	(2,163)	(6,776)
Financing activities			
Net increase (decrease) in other advances	(1,625)	3,867	(6,672)
Proceeds from issuance of long-term debt	29,315	30,708	37,704
Retirement of long-term debt	(21,039)	(29,413)	(29,645)
Proceeds from issuance of preferred stock	3,643	4,515	—
Redemption of preferred stock	(2,568)	(4,512)	—
Common stock repurchased	(28,144)	(20,094)	(12,814)
Cash dividends paid	(5,934)	(6,895)	(5,700)
Net cash used in financing activities	(26,352)	(21,824)	(17,127)
Net increase (decrease) in cash held at bank subsidiaries	554	394	(15,501)
Cash held at bank subsidiaries at January 1	5,141	4,747	20,248
Cash held at bank subsidiaries at December 31	\$ 5,695	\$ 5,141	\$ 4,747

NOTE 26 Performance by Geographical Area

The Corporation's operations are highly integrated with operations in both U.S. and non-U.S. markets. The non-U.S. business activities are largely conducted in Europe, the Middle East and Africa and in Asia. The Corporation identifies its geographic performance based on the business unit structure used to manage the capital or expense deployed in the region as applicable. This

requires certain judgments related to the allocation of revenue so that revenue can be appropriately matched with the related capital or expense deployed in the region. Certain asset, liability, income and expense amounts have been allocated to arrive at total assets, total revenue, net of interest expense, income before income taxes and net income by geographic area as presented below.

			Total Assets at Year End (1)	Total Revenue, Net of Interest Expense (2)	Income Before Income Taxes	Net Income			
(Dollars in millions)									
U.S. (3)	2019	\$	2,122,734	\$	81,236	\$	30,699	\$	25,937
	2018		2,051,182		80,777		31,904		26,407
	2017				74,604		25,108		15,550
Asia	2019		102,440		3,491		765		570
	2018		94,865		3,507		865		520
	2017				3,405		676		464
Europe, Middle East and Africa	2019		178,889		5,310		921		672
	2018		185,285		5,632		1,543		1,126
	2017				7,907		2,990		1,926
Latin America and the Caribbean	2019		30,016		1,207		369		251
	2018		23,175		1,104		272		94
	2017				1,210		439		292
Total Non-U.S.	2019		311,345		10,008		2,055		1,493
	2018		303,325		10,243		2,680		1,740
	2017				12,522		4,105		2,682
Total Consolidated	2019	\$	2,434,079	\$	91,244	\$	32,754	\$	27,430
	2018		2,354,507		91,020		34,584		28,147
	2017				87,126		29,213		18,232

(1) Total assets include long-lived assets, which are primarily located in the U.S.

(2) There were no material intercompany revenues between geographic regions for any of the periods presented.

(3) Substantially reflects the U.S.

Glossary

Alt-A Mortgage – A type of U.S. mortgage that is considered riskier than A-paper, or “prime,” and less risky than “subprime,” the riskiest category. Typically, Alt-A mortgages are characterized by borrowers with less than full documentation, lower credit scores and higher LTVs.

Assets Under Management (AUM) – The total market value of assets under the investment advisory and/or discretion of GWIM which generate asset management fees based on a percentage of the assets’ market values. AUM reflects assets that are generally managed for institutional, high net worth and retail clients, and are distributed through various investment products including mutual funds, other commingled vehicles and separate accounts.

Banking Book – All on- and off-balance sheet financial instruments of the Corporation except for those positions that are held for trading purposes.

Brokerage and Other Assets – Non-discretionary client assets which are held in brokerage accounts or held for safekeeping.

Committed Credit Exposure – Any funded portion of a facility plus the unfunded portion of a facility on which the lender is legally bound to advance funds during a specified period under prescribed conditions.

Credit Derivatives – Contractual agreements that provide protection against a specified credit event on one or more referenced obligations.

Credit Valuation Adjustment (CVA) – A portfolio adjustment required to properly reflect the counterparty credit risk exposure as part of the fair value of derivative instruments.

Debit Valuation Adjustment (DVA) – A portfolio adjustment required to properly reflect the Corporation’s own credit risk exposure as part of the fair value of derivative instruments and/or structured liabilities.

Funding Valuation Adjustment (FVA) – A portfolio adjustment required to include funding costs on uncollateralized derivatives and derivatives where the Corporation is not permitted to use the collateral it receives.

Interest Rate Lock Commitment (IRLC) – Commitment with a loan applicant in which the loan terms are guaranteed for a designated period of time subject to credit approval.

Letter of Credit – A document issued on behalf of a customer to a third party promising to pay the third party upon presentation of specified documents. A letter of credit effectively substitutes the issuer’s credit for that of the customer.

Loan-to-value (LTV) – A commonly used credit quality metric. LTV is calculated as the outstanding carrying value of the loan divided by the estimated value of the property securing the loan.

Margin Receivable – An extension of credit secured by eligible securities in certain brokerage accounts.

Matched Book – Repurchase and resale agreements or securities borrowed and loaned transactions where the overall asset and liability position is similar in size and/or maturity. Generally, these are entered into to accommodate customers where the Corporation earns the interest rate spread.

Mortgage Servicing Rights (MSR) – The right to service a mortgage loan when the underlying loan is sold or securitized. Servicing includes collections for principal, interest and escrow payments from borrowers and accounting for and remitting principal and interest payments to investors.

Net Interest Yield – Net interest income divided by average total interest-earning assets.

Nonperforming Loans and Leases – Includes loans and leases that have been placed on nonaccrual status, including nonaccruing loans whose contractual terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties.

Operating Margin – Income before income taxes divided by total revenue, net of interest expense.

Prompt Corrective Action (PCA) – A framework established by the U.S. banking regulators requiring banks to maintain certain levels of regulatory capital ratios, comprised of five categories of capitalization: “well capitalized,” “adequately capitalized,” “undercapitalized,” “significantly undercapitalized” and “critically undercapitalized.” Insured depository institutions that fail to meet certain of these capital levels are subject to increasingly strict limits on their activities, including their ability to make capital distributions, pay management compensation, grow assets and take other actions.

Subprime Loans – Although a standard industry definition for subprime loans (including subprime mortgage loans) does not exist, the Corporation defines subprime loans as specific product offerings for higher risk borrowers.

Troubled Debt Restructurings (TDRs) – Loans whose contractual terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties. Certain consumer loans for which a binding offer to restructure has been extended are also classified as TDRs.

Value-at-Risk (VaR) – VaR is a model that simulates the value of a portfolio under a range of hypothetical scenarios in order to generate a distribution of potential gains and losses. VaR represents the loss the portfolio is expected to experience with a given confidence level based on historical data. A VaR model is an effective tool in estimating ranges of potential gains and losses on our trading portfolios.

Acronyms

ABS	Asset-backed securities	GSE	Government-sponsored enterprise
AFS	Available-for-sale	G-SIB	Global systemically important bank
ALM	Asset and liability management	GWIM	Global Wealth & Investment Management
ARR	Alternative reference rates	HELOC	Home equity line of credit
AUM	Assets under management	HQLA	High Quality Liquid Assets
AVM	Automated valuation model	HTM	Held-to-maturity
BANA	Bank of America, National Association	ICAAP	Internal Capital Adequacy Assessment Process
BHC	Bank holding company	IRM	Independent Risk Management
BofAS	BofA Securities, Inc.	IBOR	Interbank Offered Rates
BofASE	BofA Securities Europe SA	IRLC	Interest rate lock commitment
bps	basis points	ISDA	International Swaps and Derivatives Association, Inc.
CAE	Chief Audit Executive	LCR	Liquidity Coverage Ratio
CAO	Chief Administrative Officer	LGD	Loss given default
CCAR	Comprehensive Capital Analysis and Review	LHFS	Loans held-for-sale
CDO	Collateralized debt obligation	LIBOR	London Interbank Offered Rate
CDS	Credit default swap	LTV	Loan-to-value
CET1	Common equity tier 1	MBS	Mortgage-backed securities
CFPB	Consumer Financial Protection Bureau	MD&A	Management's Discussion and Analysis of Financial Condition and Results of Operations
CLO	Collateralized loan obligation	MLGWM	Merrill Lynch Global Wealth Management
CFTC	Commodity Futures Trading Commission	MLI	Merrill Lynch International
CLTV	Combined loan-to-value	MLPCC	Merrill Lynch Professional Clearing Corp
CRO	Chief Risk Officer	MLPF&S	Merrill Lynch, Pierce, Fenner & Smith Incorporated
CVA	Credit valuation adjustment	MRC	Management Risk Committee
DIF	Deposit Insurance Fund	MSA	Metropolitan Statistical Area
DVA	Debit valuation adjustment	MSR	Mortgage servicing right
EAD	Exposure at default	NOL	Net operating loss
EMRC	Enterprise Model Risk Committee	NSFR	Net Stable Funding Ratio
EPS	Earnings per common share	OCC	Office of the Comptroller of the Currency
ERC	Enterprise Risk Committee	OCI	Other comprehensive income
EU	European Union	OREO	Other real estate owned
FCA	Financial Conduct Authority	OTC	Over-the-counter
FDIC	Federal Deposit Insurance Corporation	OTTI	Other-than-temporary impairment
FDICIA	Federal Deposit Insurance Corporation Improvement Act of 1991	PCA	Prompt Corrective Action
FHA	Federal Housing Administration	RMBS	Residential mortgage-backed securities
FHFA	Federal Housing Finance Agency	RSU	Restricted stock unit
FHLB	Federal Home Loan Bank	SBLC	Standby letter of credit
FHLMC	Freddie Mac	SCCL	Single-counterparty credit limits
FICC	Fixed-income, currencies and commodities	SBSDs	Security-based swap dealers
FICO	Fair Isaac Corporation (credit score)	SEC	Securities and Exchange Commission
FLUs	Front line units	SLR	Supplementary leverage ratio
FNMA	Fannie Mae	SOFR	Secured Overnight Financing Rate
FTE	Fully taxable-equivalent	TDR	Troubled debt restructurings
FVA	Funding valuation adjustment	TLAC	Total loss-absorbing capacity
GAAP	Accounting principles generally accepted in the United States of America	VA	U.S. Department of Veterans Affairs
GDPR	General Data Protection Regulation	VaR	Value-at-Risk
GLS	Global Liquidity Sources	VIE	Variable interest entity
GNMA	Government National Mortgage Association		

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None

Item 9A. Controls and Procedures

Disclosure Controls and Procedures

As of the end of the period covered by this report and pursuant to Rule 13a-15 of the Securities Exchange Act of 1934, as amended (Exchange Act), Bank of America's management, including the Chief Executive Officer and Chief Financial Officer, conducted an evaluation of the effectiveness and design of our disclosure controls and procedures (as that term is defined in Rule 13a-15(e) of the Exchange Act). Based upon that evaluation, Bank of America's Chief Executive Officer and Chief Financial Officer concluded that Bank of America's disclosure controls and procedures were effective, as of the end of the period covered by this report.

Report of Management on Internal Control Over Financial Reporting

The Report of Management on Internal Control over Financial Reporting is set forth on page 86 and incorporated herein by reference. The Report of Independent Registered Public Accounting Firm with respect to the Corporation's internal control over financial reporting is set forth on pages 87 and 88 and incorporated herein by reference.

Changes in Internal Control Over Financial Reporting

There have been no changes in our internal control over financial reporting (as defined in Rule 13a-15(f) of the Exchange Act) during the quarter ended December 31, 2019, that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information

None

Part III

Bank of America Corporation and Subsidiaries

Item 10. Directors, Executive Officers and Corporate Governance

Information about our Executive Officers

The name, age, position and office, and business experience during the last five years of our current executive officers are:

Dean C. Athanasia (53) President, Retail and Preferred & Small Business Banking since January 2019; **Co-Head -- Consumer Banking** from September 2014 to January 2019; and **Preferred and Small Business Banking Executive** from April 2011 to September 2014.

Catherine P. Bessant (59) Chief Operations and Technology Officer since July 2015; **Global Technology & Operations Executive** from March 2010 to July 2015.

Sheri Bronstein (51) Chief Human Resources Officers since January 2019; **Global Human Resources Executive** from July 2015

to January 2019; and **HR Executive for Global Banking & Markets** from March 2010 to July 2015.

Paul M. Donofrio (59) Chief Financial Officers since August 2015; **Strategic Finance Executive** from April 2015 to August 2015; and **Head of Global Corporate Credit and Transaction Banking** from January 2012 to April 2015.

Geoffrey S. Greener (55) Chief Risk Officer since April 2014; **Head of Enterprise Capital Management** from April 2011 to April 2014.

Kathleen A. Knox (56) President, Private Banks since November 2017; **Head of Business Banking** from October 2014 to November 2017; and **Retail Banking & Distribution Executive** from June 2011 to October 2014.

David G. Leitch (59) Global General Counsels since January 2016; **General Counsel of Ford Motor Company** from April 2005 to December 2015.

Thomas K. Montag (63) Chief Operating Officer since September 2014; **Co-Chief Operating Officer** from September 2011 to September 2014.

Brian T. Moynihan (60) Chairman of the Board since October 2014, and **President, and Chief Executive Officer and member of the Board of Directors** since January 2010.

Thong M. Nguyen (61) Vice Chairman, Bank of America Corporation since January 2019; **Co-Head -- Consumer Banking** from September 2014 to January 2019; **Retail Banking Executive** from April 2014 to September 2014; and **Retail Strategy, and Operations & Digital Banking Executive** from September 2012 to April 2014.

Andrew M. Sieg (52) President, Merrill Lynch Wealth Management since January 2017; and **Head of Global Wealth & Retirement Solutions with Merrill Lynch** from October 2011 to January 2017.

Andrea B. Smith (52) Chief Administrative Officers since August 2015; **Global Head of Human Resources** from January 2010 to August 2015.

Information included under the following captions in the Corporation's proxy statement relating to its 2020 annual meeting of stockholders (the 2020 Proxy Statement) is incorporated herein by reference:

- "Proposal 1: Electing Directors -- Our Director Nominees;"
- "Corporate Governance -- Additional Corporate Governance Information;" and
- "Corporate Governance -- Board Meetings, Committee Membership, and Attendance."

Item 11. Executive Compensation

Information included under the following captions in the 2020 Proxy Statement is incorporated herein by reference:

- "Compensation Discussion and Analysis;"
- "Compensation and Human Capital Committee Report;"
- "Executive Compensation;"
- "Corporate Governance;" and
- "Director Compensation."

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

Information included under the following caption in the 2020 Proxy Statement is incorporated herein by reference:

- “Stock Ownership of Directors, Executive Officers, and Certain Beneficial Owners.”

The table below presents information on equity compensation plans at December 31, 2019:

Plan Category (1)	(a) Number of Shares to be Issued Under Outstanding Options, Warrants and Rights (2)	(b) Weighted-average Exercise Price of Outstanding Options, Warrants and Rights (3)	(c) Number of Shares Remaining for Future Issuance Under Equity Compensation Plans (excluding securities reflected in column (a)) (4)
Plans approved by shareholders	158,954,915	—	304,904,984
Plans not approved by shareholders	—	—	—
Total	158,954,915	—	304,904,984

(1) This table does not include 783,282 vested restricted stock units and stock option gain deferrals at December 31, 2019 that were assumed by the Corporation in connection with prior acquisitions under whose plans the awards were originally granted.

(2) Consists of outstanding restricted stock units. Includes 1,115,166 vested restricted stock units subject to a required twelve-month holding period.

(3) Restricted stock units do not have an exercise price and are delivered without any payment or consideration.

(4) Amount represents shares of common stock available for future issuance under the Bank of America Corporation Key Employee Equity Plan.

Item 13. Certain Relationships and Related Transactions, and Director Independence

Information included under the following captions in the 2020 Proxy Statement is incorporated herein by reference:

- “Related Person and Certain Other Transactions;” and
- “Corporate Governance — Director Independence.”

Item 14. Principal Accounting Fees and Services

Information included under the following caption in the 2020 Proxy Statement is incorporated herein by reference:

- “Proposal 3: Ratifying the Appointment of our Independent Registered Public Accounting Firm for 2020.”

Part IV

Bank of America Corporation and Subsidiaries

Item 15. Exhibits, Financial Statement Schedules

The following documents are filed as part of this report:

(1) Financial Statements:

Report of Independent Registered Public Accounting Firm
 Consolidated Statement of Income for the years ended December 31, 2019, 2018 and 2017
 Consolidated Statement of Comprehensive Income for the years ended December 31, 2019, 2018 and 2017
 Consolidated Balance Sheet at December 31, 2019 and 2018
 Consolidated Statement of Changes in Shareholders' Equity for the years ended December 31, 2019, 2018 and 2017
 Consolidated Statement of Cash Flows for the years ended December 31, 2019, 2018 and 2017
 Notes to Consolidated Financial Statements

(2) Schedules:

None

(3) Index to Exhibits

With the exception of the information expressly incorporated herein by reference, the 2020 Proxy Statement shall not be deemed filed as part of this Annual Report on Form 10-K.

Exhibit No.	Description	Notes	Incorporated by Reference			
			Form	Exhibit	Filing Date	File No.
3.1	Restated Certificate of Incorporation, as amended and in effect on the date hereof	1				
3.2	Amended Bylaws of the Corporation as in effect on the date hereof		10-Q	3(b)	10/28/19	1-6523
4.1	Indenture dated as of January 1, 1995 between registrant (successor to NationsBank Corporation) and BankAmerica National Trust Company		S-3	4.1	2/1/95	33-57533
4.2	First Supplemental Indenture dated as of September 18, 1998 between registrant and U.S. Bank Trust National Association (successor to BankAmerica National Trust Company) to the indenture dated as of January 1, 1995 (See Exhibit 4.1)		8-K	4.3	11/18/98	1-6523
4.3	Second Supplemental Indenture dated as of May 7, 2001 between registrant, U.S. Bank Trust National Association, as Prior Trustee, and The Bank of New York, as Successor Trustee to the indenture dated as of January 1, 1995 (See Exhibit 4.1)		8-K	4.4	6/14/01	1-6523
4.4	Third Supplemental Indenture dated as of July 28, 2004 between registrant and The Bank of New York to the indenture dated as of January 1, 1995 (See Exhibit 4.1)		8-K	4.2	8/27/04	1-6523
4.5	Fourth Supplemental Indenture dated as of April 28, 2006 between the registrant and The Bank of New York to the indenture dated as of January 1, 1995 (See Exhibit 4.1)		S-3	4.6	5/5/06	333-133852
4.6	Fifth Supplemental Indenture dated as of December 1, 2008 between registrant and The Bank of New York Mellon Trust Company, N.A. (successor to The Bank of New York) to the indenture dated as of January 1, 1995 (See Exhibit 4.1)		8-K	4.1	12/5/08	1-6523
4.7	Sixth Supplemental Indenture dated as of February 23, 2011 between registrant and The Bank of New York Mellon Trust Company, N.A. to the indenture dated as of January 1, 1995 (See Exhibit 4.1)		10-K	4(ee)	2/25/11	1-6523
4.8	Seventh Supplemental Indenture dated as of January 13, 2017 between registrant and The Bank of New York Mellon Trust Company, N.A. to the indenture dated as of January 1, 1995 (See Exhibit 4.1)		8-K	4.1	1/13/17	1-6523
4.9	Eighth Supplemental Indenture dated as of February 23, 2017 between registrant and the Bank of New York Mellon Trust Company, N.A. to the indenture dated as of January 1, 1995 (See Exhibit 4.1)		10-K	4(a)	2/23/17	1-6523
4.10	Successor Trustee Agreement effective December 15, 1995 between registrant (successor to NationsBank Corporation) and First Trust of New York, National Association, as successor trustee to BankAmerica National Trust Company		S-3	4.2	6/28/96	333-07229
4.11	Agreement of Appointment and Acceptance dated as of December 29, 2006 between registrant and The Bank of New York Trust Company, N.A.		10-K	4(aaa)	2/28/07	1-6523
4.12	Form of Senior Registered Note		S-3	4.12	5/1/15	333-202354
4.13	Form of Global Senior Medium-Term Note, Series L		S-3	4.13	5/1/15	333-202354
4.14	Form of Master Global Senior Medium-Term Note, Series L		S-3	4.14	5/1/15	333-202354
4.15	Form of Global Senior Medium-Term Note, Series M		8-K	4.2	1/13/17	1-6523
4.16	Form of Master Global Senior Medium-Term Note, Series M		8-K	4.3	1/13/17	1-6523
4.17	Indenture dated as of January 1, 1995 between registrant (successor to NationsBank Corporation) and The Bank of New York		S-3	4.5	2/1/95	33-57533
4.18	First Supplemental Indenture dated as of August 28, 1998 between registrant and The Bank of New York to the indenture dated as of January 1, 1995 (See Exhibit 4.17)		8-K	4.8	11/18/98	1-6523

Exhibit No.	Description	Notes	Incorporated by Reference			
			Form	Exhibit	Filing Date	File No.
4.19	Second Supplemental Indenture dated as of January 25, 2007 between registrant and The Bank of New York Trust Company, N.A. (successor to The Bank of New York) to the indenture dated as of January 1, 1995 (See Exhibit 4.17)		S-4	4.3	3/16/07	333-141361
4.20	Third Supplemental Indenture dated as of February 23, 2011 between registrant and The Bank of New York Mellon Trust Company, N.A. (formerly The Bank of New York Trust Company, N.A.) to the indenture dated as of January 1, 1995 (See Exhibit 4.17)		10-K	4(ff)	2/25/11	1-6523
4.21	Fourth Supplemental Indenture dated as of February 23, 2017 between registrant and The Bank of New York Mellon Trust Company, N.A. to the indenture dated as of January 1, 1995 (See Exhibit 4.17)		10-K	4(i)	2/23/17	1-6523
4.22	Indenture dated as of June 27, 2018 between the registrant and The Bank of New York Mellon Trust Company, N.A.		S-3	4.3	6/27/18	333-224523
4.23	Form of Global Senior Medium-Term Note, Series N		S-3	4.4	6/27/18	333-224523
4.24	Form of Master Global Senior Medium-Term Note, Series N		S-3	4.5	6/27/18	333-224523
4.25	Indenture dated as of June 27, 2018 between the registrant and The Bank of New York Mellon Trust Company, N.A.		S-3	4.6	6/27/18	333-224523
4.26	Form of Global Subordinated Medium-Term Note, Series N		S-3	4.7	6/27/18	333-224523
	Registrant and its subsidiaries have other long-term debt agreements, but these are omitted pursuant to Item 601(b)(4)(iii) of Regulation S-K. Copies of these agreements will be furnished to the Commission on request					
4.27	Description of the Corporation's Securities	1				
10.1	Bank of America Pension Restoration Plan, as amended and restated effective January 1, 2009 (Pension Restoration Plan)	2	10-K	10(c)	2/27/09	1-6523
10.2	First Amendment to the Pension Restoration Plan dated December 18, 2009	2	10-K	10(c)	2/26/10	1-6523
10.3	Second Amendment to the Pension Restoration Plan dated June 29, 2012	2	10-K	10(a)	2/28/13	1-6523
10.4	Third Amendment to the Pension Restoration Plan dated March 26, 2013	1,2				
10.5	Fourth Amendment to the Pension Restoration Plan dated August 22, 2013	1,2				
10.6	Fifth Amendment to the Pension Restoration Plan dated December 5, 2014	1,2				
10.7	Sixth Amendment to the Pension Restoration Plan dated December 15, 2016	1,2				
10.8	NationsBank Corporation Benefit Security Trust dated as of June 27, 1990	2	10-K	10(l)	3/27/91	1-6523
10.9	First Supplement to NationsBank Corporation Benefit Security Trust dated as of November 30, 1992	2	10-K	10(v)	3/24/93	1-6523
10.10	NationsBank Corporation Benefit Security Trust Trustee Removal/Appointment Agreement dated as of December 19, 1995	2	10-K	10(o)	3/29/96	1-6523
10.11	Bank of America Deferred Compensation Plan (formerly known as the Bank of America 401(k) Restoration Plan) as amended and restated effective January 1, 2015	2	10-K	10(c)	2/25/15	1-6523
10.12	First Amendment to the Bank of America Deferred Compensation Plan (formerly know as the Bank of America 401(k) Restoration Plan), as amended and restated effective January 1, 2015	2	10-K	10(vv)	2/24/16	1-6523
10.13	Second Amendment to the Bank of America Deferred Compensation Plan (formerly known as the Bank of America 401(k) Restoration Plan), as amended and restated effective January 1, 2015	2	S-8	4(c)	11/19/19	333-234780
10.14	Third Amendment to the Bank of America Deferred Compensation Plan (formerly known as the Bank of America 401(k) Restoration Plan), as amended and restated effective January 1, 2015	1,2				
10.15	Bank of America Executive Incentive Compensation Plan, as amended and restated effective December 10, 2002	2	10-K	10(g)	3/3/03	1-6523
10.16	Amendment to Bank of America Executive Incentive Compensation Plan, dated January 23, 2013	2	10-K	10(d)	2/28/13	1-6523
10.17	Bank of America Director Deferral Plan, as amended and restated effective January 1, 2005	2	10-K	10(g)	2/28/07	1-6523
10.18	Bank of America Director Deferral Plan, as amended and restated effective January 1, 2019	2	10-K	10(f)	2/26/19	1-6523
10.19	Bank of America Corporation Directors' Stock Plan as amended and restated effective April 26, 2006 (2006 Directors' Stock Plan)	2	8-K	10.2	12/14/05	1-6523
10.20	Form of Restricted Stock Award Agreement to the 2006 Directors' Stock Plan	2	10-K	10(h)	3/1/05	1-6523
10.21	Form of Directors' Stock Plan Conditional Restricted Stock Award Agreement for Non-U.S. Director to the 2006 Directors' Stock Plan	2	10-Q	10(a)	8/4/11	1-6523
10.22	Bank of America Corporation Key Associate Stock Plan, as amended and restated effective April 28, 2010 (2010 KASP)	2	8-K	10.2	5/3/10	1-6523
10.23	Form of Performance Restricted Stock Units Award Agreement (February 2014 and subsequent grants), including grants to named executive officers to the 2010 KASP	2	10-Q	10(a)	5/1/14	1-6523
10.24	Bank of America Corporation Key Employee Equity Plan (formerly known as the Key Associate Stock Plan), as amended and restated effective May 6, 2015 (2015 KEEP)	2	8-K	10.2	5/7/15	1-6523

Exhibit No.	Description	Notes	Incorporated by Reference			
			Form	Exhibit	Filing Date	File No.
10.25	Form of Cash-settled Restricted Stock Units Award Agreement (February 2016 and subsequent grants) to the 2015 KEEP	2	10-Q	10(a)	5/2/16	1-6523
10.26	Form of Performance Restricted Stock Units Award Agreement (February 2016) to the 2015 KEEP	2	10-Q	10(c)	5/2/16	1-6523
10.27	Form of Time-based Restricted Stock Units Award Agreement (February 2017 and February 2018) to the 2015 KEEP	2	10-Q	10(a)	5/2/17	1-6523
10.28	Form of Performance Restricted Stock Units Award Agreement (February 2017) to the 2015 KEEP	2	10-Q	10(b)	5/2/17	1-6523
10.29	Form of Performance Restricted Stock Units Award Agreement (February 2018) to the 2015 KEEP	2	10-Q	10	4/30/18	1-6523
10.30	Form of Restricted Stock Award Agreement for Non-Employee Directors to the 2015 KEEP	2	10-K	10(h)	2/26/19	1-6523
10.31	Form of Time-based Restricted Stock Units Award Agreement (February 2019) between the Corporation and certain executive officers of the Corporation, including certain Named Executive Officers to the 2015 KEEP	2	10-Q	10(a)	4/26/19	1-6523
10.32	Form of Performance Restricted Stock Units Award Agreement (February 2019) between the Corporation and certain executive officers of the Corporation, including certain Named Executive Officers to the 2015 KEEP	2	10-Q	10(b)	4/26/19	1-6523
10.33	ESA Retention Agreement dated March 15, 2004 between the Corporation and Dean C. Athanasia	2	10-Q	10(c)	4/26/19	1-6523
10.34	Amendment to various plans in connection with FleetBoston Financial Corporation merger dated October 27, 2003	2	10-K	10(v)	3/1/04	1-6523
10.35	FleetBoston Supplemental Executive Retirement Plan effective December 31, 2004	2	10-K	10(r)	3/1/05	1-6523
10.36	FleetBoston Executive Deferred Compensation Plan No. 2 effective December 16, 2003	2	10-K	10(u)	3/1/05	1-6523
10.37	FleetBoston Executive Supplemental Plan effective December 31, 2004	2	10-K	10(v)	3/1/05	1-6523
10.38	Retirement Income Assurance Plan for Legacy Fleet, as amended and restated effective January 1, 2009	2	10-K	10(p)	2/26/10	1-6523
10.39	Amendment thereto dated December 16, 2010, incorporated by reference to Exhibit 10(c) of the 2010 10-K	2	10-K	10(c)	2/25/11	1-6523
10.40	Amendment thereto dated June 29, 2012, incorporated by reference to Exhibit 10(i) of the 2012 10-K	2	10-K	10(i)	2/28/13	1-6523
10.41	Trust Agreement for the FleetBoston Executive Deferred Compensation Plans No. 1 and 2 dated December 17, 1997	2	10-K	10(x)	3/1/05	1-6523
10.42	Trust Agreement for the FleetBoston Executive Supplemental Plan dated June 19, 1996	2	10-K	10(y)	3/1/05	1-6523
10.43	Trust Agreement for the FleetBoston Retirement Income Assurance Plan and the FleetBoston Supplemental Executive Retirement Plan dated June 19, 1996	2	10-K	10(z)	3/1/05	1-6523
10.44	FleetBoston Directors Deferred Compensation and Stock Unit Plan effective January 1, 2004	2	10-K	10(aa)	3/1/05	1-6523
10.45	BankBoston Corporation and its Subsidiaries Deferred Compensation Plan dated December 24, 2001	2	10-K	10(cc)	3/1/05	1-6523
10.46	BankBoston Director Stock Award Plan effective July 1, 1998	2	10-K	10(hh)	3/1/05	1-6523
10.47	BankBoston Corporation Directors' Deferred Compensation Plan effective March 1, 1988	2	10-K	10(ii)	3/1/05	1-6523
10.48	BankBoston, N.A. Directors' Deferred Compensation Plan effective March 1, 1988	2	10-K	10(jj)	3/1/05	1-6523
10.49	Description of BankBoston Director Retirement Benefits Exchange Program	2	10-K	10(ll)	3/1/05	1-6523
10.50	Global amendment to definition of "change in control" or "change of control," together with a list of plans affected by such amendment	2	10-K	10(oo)	3/1/05	1-6523
10.51	Employment Agreement dated October 27, 2003 between registrant and Brian T. Moynihan	2	S-4	10(d)	12/4/03	333-110924
10.52	Cancellation Agreement dated October 26, 2005 between registrant and Brian T. Moynihan	2	8-K	10.1	10/26/05	1-6523
10.53	Agreement Regarding Participation in the Fleet Boston Supplemental Executive Retirement Plan dated October 26, 2005 between registrant and Brian T. Moynihan	2	8-K	10.2	10/26/05	1-6523
10.54	Bank of America Corporation Equity Incentive Plan amended and restated effective as of January 1, 2008	2	10-K	10(zz)	2/26/10	1-6523
10.55	Merrill Lynch & Co., Inc. Long-Term Incentive Compensation Plan amended as of January 1, 2009 and 2008 Restricted Units/Stock Option Grant Document for Thomas K. Montag	2	10-K	10(aaa)	2/26/10	1-6523
10.56	Employment Letter dated May 1, 2008 between Merrill Lynch & Co., Inc. and Thomas K. Montag and Summary of Agreement with respect to Post-Employment Medical Coverage	2	10-K	10(bbb)	2/26/10	1-6523
10.57	Securities Purchase Agreement dated August 25, 2011 between registrant and Berkshire Hathaway Inc. (including forms of the Certificate of Designations, Warrant and Registration Rights Agreement)		8-K	1.1	8/25/11	1-6523
10.58	Form of Waiver of Certain Incremental Payouts from Performance Restricted Stock Units		10-K	10(rr)	2/23/17	1-6523
10.59	Amended and Restated Aircraft Time Sharing Agreement (Multiple Aircraft) dated June 26, 2018 between Bank of America, N.A. and Brian T. Moynihan	2	10-Q	10	7/30/18	1-6523
10.60	Form of Aircraft Time Sharing Agreement (Multiple Aircraft) between Bank of America, N.A. and certain executive officers of the Corporation, including certain Named Executive Officers	2	10-Q	10(b)	6/30/19	1-6523

Exhibit No.	Description	Notes	Incorporated by Reference			
			Form	Exhibit	Filing Date	File No.
10.61	First Amendment to the 2015 KEEP dated December 19, 2018	2	10-K	10(mm)	2/26/19	1-6523
10.62	Second Amendment to the 2015 KEEP dated April 24, 2019	2	8-K	10.1	4/24/19	1-6523
21	Direct and Indirect Subsidiaries of Bank of America Corporation As of December 31, 2019	1				
23	Consent of PricewaterhouseCoopers LLP	1				
24	Power of Attorney	1				
31.1	Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	1				
31.2	Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	1				
32.1	Certification of the Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002	1				
32.2	Certification of the Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002	1				
101.INS	Inline XBRL Instance Document	3				
101.SCH	Inline XBRL Taxonomy Extension Schema Document	1				
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document	1				
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document	1				
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document	1				
101.DEF	Inline XBRL Taxonomy Extension Definitions Linkbase Document	1				
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)					

(1) Filed Herewith.

(2) Exhibit is a management contract or compensatory plan or arrangement.

(3) The instance document does not appear in the interactive data file because its XBRL tags are embedded within the inline XBRL document.

Item 16. Form 10-K Summary

Not applicable.

Signatures

Pursuant to the requirements of Section 13 of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 19, 2020

Bank of America Corporation

By: /s/ Brian T. Moynihan

Brian T. Moynihan

Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Signature	Title	Date
<u>/s/ Brian T. Moynihan</u> Brian T. Moynihan	Chief Executive Officer, Chairman and Director (Principal Executive Officer)	February 19, 2020
<u>*s/ Paul M. Donofrio</u> Paul M. Donofrio	Chief Financial Officer (Principal Financial Officer)	February 19, 2020
<u>*s/ Rudolf A. Bless</u> Rudolf A. Bless	Chief Accounting Officer (Principal Accounting Officer)	February 19, 2020
<u>*s/ Sharon L. Allen</u> Sharon L. Allen	Director	February 19, 2020
<u>*s/ Susan S. Bies</u> Susan S. Bies	Director	February 19, 2020
<u>*s/ Jack O. Bovender, Jr.</u> Jack O. Bovender, Jr.	Director	February 19, 2020
<u>*s/ Frank P. Bramble, Sr.</u> Frank P. Bramble, Sr.	Director	February 19, 2020
<u>*s/ Pierre de Weck</u> Pierre de Weck	Director	February 19, 2020
<u>*s/ Arnold W. Donald</u> Arnold W. Donald	Director	February 19, 2020
<u>*s/ Linda P. Hudson</u> Linda P. Hudson	Director	February 19, 2020
<u>*s/ Monica C. Lozano</u> Monica C. Lozano	Director	February 19, 2020

Signature	Title	Date
<div>*/s/ Thomas J. May</div> <div>Thomas J. May</div>	Director	February 19, 2020
<div>*/s/ Lionel L. Nowell, III</div> <div>Lionel L. Nowell, III</div>	Director	February 19, 2020
<div>*/s/ Denise L. Ramos</div> <div>Denise L. Ramos</div>	Director	February 19, 2020
<div>*/s/ Clayton S. Rose</div> <div>Clayton S. Rose</div>	Director	February 19, 2020
<div>*/s/ Michael D. White</div> <div>Michael D. White</div>	Director	February 19, 2020
<div>*/s/ Thomas D. Woods</div> <div>Thomas D. Woods</div>	Director	February 19, 2020
<div>*/s/ R. David Yost</div> <div>R. David Yost</div>	Director	February 19, 2020
<div>*/s/ Maria T. Zuber</div> <div>Maria T. Zuber</div>	Director	February 19, 2020
<div>*By /s/ Ross E. Jeffries, Jr.</div> <div>Ross E. Jeffries, Jr. Attorney-in-Fact</div>		

**RESTATED
CERTIFICATE OF INCORPORATION
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “Corporation”), hereby certifies that (i) the Certificate of Incorporation of the Corporation was originally filed on July 31, 1998, (ii) the Corporation was originally incorporated under the name “NationsBank (DE) Corporation,” which name was changed to “NationsBank Corporation” on September 25, 1998, which name was changed to “BankAmerica Corporation” on September 30, 1998, and which name was changed to “Bank of America Corporation” on April 28, 1999, (iii) this Restated Certificate of Incorporation only restates and integrates and does not further amend the provisions of the Corporation’s Certificate of Incorporation as theretofore amended or supplemented and there is no discrepancy between the provisions of the Certificate of Incorporation as theretofore amended and supplemented and the provisions of this Restated Certificate of Incorporation, (iv) this Restated Certificate of Incorporation has been duly adopted in accordance with Section 245 of the General Corporation Law of the State of Delaware, and (v) the Certificate of Incorporation of the Corporation is hereby integrated and restated to read in its entirety as follows:

1. The name of the Corporation is Bank of America Corporation.
2. The purposes for which the Corporation is organized are to engage in any lawful act or activity for which corporations may be organized and incorporated under the General Corporation Law of the State of Delaware.
3. The number of shares, par value \$.01 per share, the Corporation is authorized to issue is Twelve Billion Nine Hundred Million (12,900,000,000), divided into the following classes:

Class	Number of Shares
Common...	12,800,000,000
Preferred.....	100,000,000.

The class of common (“Common Stock”) has unlimited voting rights and, after satisfaction of claims, if any, of the holders of preferred shares, is entitled to receive the net assets of the Corporation upon distribution.

The Board of Directors of the Corporation shall have full power and authority to establish one or more series within the class of preferred shares (the “Preferred Shares”), to define the designations, preferences, limitations and relative rights (including conversion rights) of shares within such class and to determine all variations between series.

The Board of Directors of the Corporation has designated, established and authorized the following series of Preferred Shares:

(a) 7% Cumulative Redeemable Preferred Stock, Series B.

A. Designation.

The designation of this series is “7% Cumulative Redeemable Preferred Stock, Series B” (hereinafter referred to as the “Series B Preferred Stock”) and the number of shares constituting such series is Thirty-Five Thousand Forty-Five (35,045). Shares of Series B Preferred Stock shall have a stated value of \$100.00 per share.

B. Dividends.

The holders of record of the shares of the Series B Preferred Stock shall be entitled to receive, when and as declared by the Board of Directors of the Corporation, out of any funds legally available for such purpose, cumulative cash dividends at an annual dividend rate per share of 7% of the stated value thereof, which amount if \$7.00 per annum, per share, and no more. Such dividends shall be payable each calendar quarter at the rate of \$1.75 per share on such dates as shall be fixed

by resolution of the Board of Directors of the Corporation. The date from which dividends on such shares shall be cumulative shall be the first day after said shares are issued. Accumulations of dividends shall not bear interest. No cash dividend shall be declared, paid or set apart for any shares of Common Stock unless all dividends on all shares of the Series B Preferred Stock at the time outstanding for all past dividend periods and for the then current dividend shall have been paid, or shall have been declared and a sum sufficient for the payment thereof, shall have been set apart. Subject to the foregoing provisions of this paragraph B, cash dividends or other cash distributions as may be determined by the Board of Directors of the Corporation may be declared and paid upon the shares of the Common Stock of the Corporation from time to time out of funds legally available therefor, and the shares of the Series B Preferred Stock shall not be entitled to participate in any such cash dividend or other such cash distribution so declared and paid or made on such shares of Common Stock.

C. Redemption.

From and after October 31, 1988, any holder may, by written request, call upon the Corporation to redeem all or any part of said holder's shares of said Series B Preferred Stock at a redemption price of \$100.00 per share plus accumulated unpaid dividends to the date said request for redemption is received by the Corporation and no more (the "Redemption Price"). Any such request for redemption shall be accompanied by the certificates for which redemption is requested, duly endorsed or with appropriate stock power attached, in either case with signature guaranteed. Upon receipt by the Corporation of any such request for redemption from any holder of the Series B Preferred Stock, the Corporation shall forthwith redeem said stock at the Redemption Price, provided that: (i) full cumulative dividends have been paid or declared and set apart for payment upon all shares of any series of preferred stock ranking superior to the Series B Preferred Stock as to dividends or other distributions (collectively the "Superior Stock"); and (ii) the Corporation is not then in default or in arrears with respect to any sinking or analogous fund or call for tenders obligation or agreement for the purchase, redemption or retirement of any shares of Superior Stock. In the event that, upon receipt of a request for redemption, either or both of the conditions set forth in clauses (i) and (ii) above are not met, the Corporation shall forthwith return said request to the submitting shareholder along with a statement that the Corporation is unable to honor such request and explanation of the reasons therefor. From and after the receipt by the Corporation of a request for redemption from any holder of said Series B Preferred Stock, which request may be honored consistent with the foregoing provisions, all rights of such holder in the Series B Preferred Stock for which redemption is requested shall cease and terminate, except only the right to receive the Redemption Price thereof, but without interest.

D. Liquidation Preference.

In the event of any voluntary or involuntary liquidation, dissolution or winding up of the Corporation, the holders of the Series B Preferred Stock shall be entitled to receive, subject to the provisions of paragraph G and before any payment shall be made to the holders of the shares of Common Stock, the amount of \$100.00 per share, plus accumulated dividends. After payment to the holders of the Series B Preferred Stock of the full amount as aforesaid, the holders of the Series B Preferred Stock as such shall have no right or claim to any of the remaining assets which shall be distributed ratably to the holders of the Common Stock. If, upon any such liquidation, dissolution or winding up, the assets available therefor are not sufficient to permit payments to the holders of Series B Preferred Stock of the full amount as aforesaid, then subject to the provisions of paragraph G, the holders of the Series B Preferred Stock then outstanding shall share ratably in the distribution of assets in accordance with the sums which would be payable if such holders were to receive the full amounts as aforesaid.

E. Sinking Fund.

There shall be no sinking fund applicable to the shares of Series B Preferred Stock.

F. Conversion.

The shares of Series B Preferred Stock shall not be convertible into any shares of Common Stock or any other class of shares, nor exchanged for any shares of Common Stock or any other class of shares.

G. Superior Stock.

The Corporation may issue stock with preferences superior or equal to the shares of the Series B Preferred Stock without the consent of the holders thereof.

H. Voting Rights.

Each share of the Series B Preferred Stock shall be entitled to equal voting rights, share for share, with each share of the Common Stock.

(b) ESOP Convertible Preferred Stock, Series C.

The shares of the ESOP Convertible Preferred Stock, Series C, of the Corporation shall be designated "ESOP Convertible Preferred Stock, Series C," and the number of shares constituting such series shall be 1,027,270. The ESOP Convertible Preferred Stock, Series C, shall hereinafter be referred to as the "ESOP Preferred Stock."

A. Special Purpose Restricted Transfer Issue.

Shares of ESOP Preferred Stock shall be issued only to a trustee acting on behalf of an employee stock ownership plan or other employee benefit plan of the Corporation or any subsidiary of the Corporation. In the event of any transfer of shares of ESOP Preferred Stock to any person other than any such plan trustee or the Corporation, the shares of ESOP Preferred Stock so transferred, upon such transfer and without any further action by the Corporation or the holder, shall be automatically converted into shares of Common Stock on the terms otherwise provided for the conversion of shares of ESOP Preferred Stock into shares of Common Stock pursuant to paragraph E hereof and no such transferee shall have any of the voting powers, preferences and relative, participating, optional or special rights ascribed to the shares of ESOP Preferred Stock hereunder but, rather, only the powers and rights pertaining to the Common Stock into which such shares of ESOP Preferred Stock shall be so converted. Certificates representing shares of ESOP Preferred Stock shall be legended to reflect such restrictions on transfer. Notwithstanding the foregoing provisions of this paragraph A, shares of ESOP Preferred Stock (i) may be converted into shares of Common Stock as provided by paragraph E hereof and the shares of Common Stock issued upon such conversion may be transferred by the holder thereof as permitted by law and (ii) shall be redeemable by the Corporation upon the terms and conditions provided by paragraphs F, G and H hereof.

B. Dividends and Distributions.

(1) Subject to the provisions for adjustment hereinafter set forth, the holders of shares of ESOP Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors out of funds legally available therefor, cash dividends ("Preferred Dividends") in an amount equal to \$3.30 per share per annum, and no more, payable semi-annually, one-half on the first day of January and one-half on the first day of July of each year (each a "Dividend Payment Date") to holders of record at the start of business on such Dividend Payment Date. Preferred Dividends shall accrue on a daily basis whether or not the Corporation shall have earnings or surplus at the time, but Preferred Dividends on the shares of ESOP Preferred Stock for any period less than a full semi-annual period between Dividend Payment Dates shall be computed on the basis of a 360-day year of 30-day months. Accumulated but unpaid Preferred Dividends shall accumulate as of the Dividend Payment Date on which they first become payable, but no interest shall accrue on accumulated but unpaid Preferred Dividends.

(2) So long as any ESOP Preferred Stock shall be outstanding, no dividend shall be declared or paid or set apart for payment on any other series of stock ranking on a parity with the ESOP Preferred Stock as to dividends, unless there shall also be or have been declared and paid or set apart for payment on the ESOP Preferred Stock, like dividends for all dividend payment periods of the ESOP Preferred Stock ending on or before the dividend payment date of such parity stock, ratably in proportion to the respective amount of dividends accumulated and unpaid through such dividend payment period on the ESOP Preferred Stock and accumulated and unpaid or payable on such parity stock through the dividend payment period on such parity stock next preceding such Dividend Payment Date. In the event that full cumulative dividends on the ESOP Preferred Stock have not been declared and paid or set apart for payment when due, the Corporation shall not declare or pay or set apart for payment any dividends or make any other distributions on, or make any payment on account of the purchase, redemption or other retirement of any other class of stock or series thereof of the Corporation ranking, as to dividends or as to distributions in the event of a liquidation, dissolution or winding-up of the Corporation, junior to the ESOP Preferred Stock until full cumulative dividends on the ESOP Preferred Stock shall have been paid or declared and provided for; provided, however, that the foregoing shall not apply to (i) any dividend payable solely in any shares of any stock ranking, as to dividends or as to distributions in the event of the liquidation, dissolution or winding-up of the Corporation, junior to the ESOP Preferred Stock, or (ii) the acquisition of shares of any stock ranking, as to dividends or as to distributions in the event of a liquidation, dissolution or winding-up of the Corporation, junior to the ESOP Preferred Stock either (A) pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted or (B) in exchange solely for shares of any other stock ranking junior to the ESOP Preferred Stock.

C. Voting Rights.

The holders of shares of ESOP Preferred Stock shall have the following voting rights:

(1) The holders of ESOP Preferred Stock shall be entitled to vote on all matters submitted to a vote of the holders of Common Stock of the Corporation, voting together with the holders of Common Stock as one class. Each share of the ESOP Preferred Stock shall be entitled to the number of votes equal to the number of shares of Common Stock into which such share of ESOP Preferred Stock could be converted on the record date for determining the shareholders entitled to vote, rounded to the nearest whole vote; it being understood that whenever the "Conversion Ratio" (as defined in paragraph E hereof) is adjusted as provided in paragraph I hereof, the voting rights of the ESOP Preferred Stock shall also be similarly adjusted.

(2) Except as otherwise required by the General Corporation Law of the State of Delaware or set forth in paragraph C(1), holders of ESOP Preferred Stock shall have no special voting rights and their consent shall not be required for the taking of any corporate action.

D. Liquidation, Dissolution or Winding-Up.

(1) Upon any voluntary or involuntary liquidation, dissolution or winding-up of the Corporation, the holders of ESOP Preferred Stock shall be entitled to receive out of the assets of the Corporation which remain after satisfaction in full of all valid claims of creditors of the Corporation and which are available for payment to shareholders and subject to the rights of the holders of any stock of the Corporation ranking senior to or on a parity with the ESOP Preferred Stock in respect of distributions upon liquidation, dissolution or winding-up of the Corporation, before any amount shall be paid or distributed among the holders of Common Stock or any other shares ranking junior to the ESOP Preferred Stock in respect of the distribution upon liquidation, dissolution or winding-up of the Corporation, liquidating distributions in the amount of \$42.50 per share, plus an amount equal to all accrued and unpaid dividends thereon to the date fixed for distribution, and no more. If upon any liquidation, dissolution or winding-up of the Corporation, the amounts payable with respect to the ESOP Preferred Stock and any other stock ranking as to any such distribution on a parity with the ESOP Preferred Stock are not paid in full, the holders of the ESOP Preferred Stock and such other stock shall share ratably in any distribution of assets in proportion to the full respective preferential amounts to which they are entitled. After payment of the full amount to which they are entitled as provided by the foregoing provisions of this paragraph D(1), the holders of shares of ESOP Preferred Stock shall not be entitled to any further right or claim to any of the remaining assets of the Corporation.

(2) Neither the merger or consolidation of the Corporation with or into any other corporation, nor the merger or consolidation of any other corporation with or into the Corporation, nor the sale, transfer or lease of all or any portion of the assets of the Corporation, shall be deemed to be a dissolution, liquidation or winding-up of the affairs of the Corporation for purposes of this paragraph D, but the holders of ESOP Preferred Stock shall nevertheless be entitled in the event of any such merger or consolidation to the rights provided by paragraph H hereof.

(3) Written notice of any voluntary or involuntary liquidation, dissolution or winding-up of the Corporation, stating the payment date or dates when, and the place or places where, the amounts distributable to holders of ESOP Preferred Stock in such circumstances shall be payable, shall be given by first-class mail, postage prepaid, mailed not less than twenty (20) days prior to any payment date stated therein, to the holders of ESOP Preferred Stock, at the address shown on the books of the Corporation or any transfer agent for the ESOP Preferred Stock.

E. Conversion into Common Stock.

(1) A holder of shares of ESOP Preferred Stock shall be entitled, at any time prior to the close of business on the date fixed for redemption of such shares pursuant to paragraph F, G or H hereof, to cause any or all of such shares to be converted into shares of Common Stock at a conversion rate equal to the ratio of 1.0 share of ESOP Preferred Stock to 1.68 shares of Common Stock (as adjusted as hereinafter provided, the "Conversion Ratio"). The Conversion Ratio set forth above is subject to adjustment pursuant to this Certificate of Incorporation.

(2) Any holder of shares of ESOP Preferred Stock desiring to convert such shares into shares of Common Stock shall surrender the certificate or certificates representing the shares of ESOP Preferred Stock being converted, duly assigned or endorsed for transfer to the Corporation (or accompanied by duly executed stock powers relating thereto), at the principal executive office of the Corporation or the offices of the transfer agent for the ESOP Preferred Stock or such office or offices in the continental United States of an agent for conversion as may from time to time be designated by notice to the holders of the ESOP Preferred Stock by the Corporation or the transfer agent for the ESOP Preferred Stock, accompanied by written notice of conversion. Such notice to conversion shall specify (i) the number of shares of ESOP Preferred Stock to be converted and the name or names in which such holder wishes the certificate or certificates for Common Stock and for any shares of ESOP Preferred Stock not to be so converted to be issued, and (ii) the address to which such holder wishes delivery to be made of such new certificates to be issued upon such conversion.

(3) Upon surrender of a certificate representing a share or shares of ESOP Preferred Stock for conversion, the Corporation shall issue and send by hand delivery (with receipt to be acknowledged) or by first-class mail, postage prepaid, to the holder thereof or to such holder's designee, at the address designated by such holder, a certificate or certificates for the number of shares of Common Stock to which such holder shall be entitled upon conversion. In the event that there shall have been surrendered a certificate or certificates representing shares of ESOP Preferred Stock, only part of which are to be converted, the Corporation shall issue and deliver to such holder or such holder's designee a new certificate or certificates representing the number of shares of ESOP Preferred Stock which shall not have been converted.

(4) The issuance by the Corporation of shares of Common Stock upon a conversion of shares of ESOP Preferred Stock into shares of Common Stock made at the option of the holder thereof shall be effective as of the earlier of (i) the

delivery to such holder or such holder's designee of the certificate or certificates representing the shares of Common Stock issued upon conversion thereof or (ii) the commencement of business on the second business day after the surrender of the certificate or certificates for the shares of ESOP Preferred Stock to be converted, duly assigned or endorsed for transfer to the corporation (or accompanied by duly executed stock powers relating thereto) as provided hereby. On and after the effective date of conversion, the person or persons entitled to receive the Common Stock issuable upon such conversion shall be treated for all purposes as the record holder or holders of such shares of Common Stock, but no allowance or adjustment shall be made in respect of dividends payable to holders of Common Stock in respect of any period prior to such effective date. The Corporation shall not be obligated to pay any dividends which shall have been declared and shall be payable to holders of shares of ESOP Preferred Stock on a Dividend Payment Date if such Dividend Payment Date for such dividend shall coincide with or be on or subsequent to the effective date of conversion of such shares.

(5) The Corporation shall not be obligated to deliver to holders of ESOP Preferred Stock any fractional share or shares of Common Stock issuable upon any conversion of such shares of ESOP Preferred Stock, but in lieu thereof may make a cash payment in respect thereof in any manner permitted by law.

(6) The Corporation shall at all times reserve and keep available out of its authorized and unissued Common Stock, solely for issuance upon the conversion of shares of ESOP Preferred Stock as herein provided, free for any preemptive rights, such number of shares of Common Stock as shall from time to time be issuable upon the conversion of all shares of ESOP Preferred Stock then outstanding. The Corporation shall prepare and shall use its best efforts to obtain and keep in force such governmental or regulatory permits or other authorizations as may be required by law, and shall comply with all requirements as to registration or qualification of the Common Stock, in order to enable the Corporation lawfully to issue and deliver to each holder of record of ESOP Preferred Stock such number of shares of its Common Stock as shall from time to time be sufficient to effect the conversion of all shares of ESOP Preferred Stock then outstanding and convertible into shares of Common Stock.

F. Redemption At the Option of the Corporation.

(1) The ESOP Preferred Stock shall be redeemable, in whole or in part, at the option of the Corporation at any time, at a redemption price per share (except as to redemption pursuant to paragraph F(3)) of \$42.83 prior to July 1, 1999 and \$42.50 thereafter, plus, in each case, an amount equal to all accrued and unpaid dividends thereon to the date fixed for redemption. Payment of the redemption price shall be made by the Corporation in cash or shares of Common Stock, or a combination thereof, as permitted by paragraph F(5). From and after the date fixed for redemption, dividends on shares of ESOP Preferred Stock called for redemption will cease to accrue, such shares will no longer be deemed to be outstanding and all rights in respect of such shares of the Corporation shall cease, except the right to receive the redemption price. If less than all of the outstanding shares of ESOP Preferred Stock are to be redeemed, the Corporation shall either redeem a portion of the shares of each holder determined pro rata based on the number of shares held by each holder or shall select the shares to be redeemed by lot, as may be determined by the Board of Directors of the Corporation.

(2) Unless otherwise required by law, notice of redemption will be sent to the holders of ESOP Preferred Stock at the address shown on the books of the Corporation or any transfer agent for the ESOP Preferred Stock by first-class mail, postage prepaid, mailed not less than twenty (20) days nor more than sixty (60) days prior to the redemption date. Each such notice shall state: (i) the redemption date; (ii) the total number of shares of the ESOP Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where certificates for such shares are to be surrendered for payment of the redemption price (v) that dividends on the shares to be redeemed will cease to accrue on such redemption date; and (vi) the conversion rights of the shares to be redeemed, the period within which conversion rights may be exercised, and the Conversion Ratio and number of shares of Common Stock issuable upon conversion of a share of ESOP Preferred Stock at the time. These notice provisions may be supplemented if necessary in order to comply with optional redemption provisions for preferred stock which may be required under the Internal Revenue Code of 1986, as amended, or the Employee Retirement Income Security Act of 1974, as amended ("ERISA"). Upon surrender of the certificates for any shares so called for redemption and not previously converted (properly endorsed or assigned for transfer, if the Board of Directors of the Corporation shall so require and the notice shall so state), such shares shall be redeemed by the Corporation at the date fixed for redemption and at the applicable redemption price set forth in this paragraph F.

(3) In the event of a change in the federal tax law of the United States of America which has the effect of precluding the Corporation from claiming any of the tax deductions for dividends paid on the ESOP Preferred Stock when such dividends are used as provided under Section 404(k)(2) of the Internal Revenue Code of 1986, as amended and in effect on the date shares of ESOP Preferred Stock are initially issued, the Corporation may, within 180 days following the effective date of such tax legislation and implementing regulations of the Internal Revenue Service, if any, in its sole discretion and notwithstanding anything to the contrary in paragraph F(1), elect to redeem any or all such shares for the amount payable in respect of the shares upon liquidation of the Corporation pursuant to paragraph D.

(4) In the event the C&S/Sovran Retirement Savings, ESOP and Profit Sharing Plan (as amended, together with any successor plan, the "Plan") is terminated, the Corporation shall, notwithstanding anything to the contrary in paragraph F(1), redeem all shares of ESOP Preferred Stock for the amount payable in respect of the shares upon redemption of the ESOP Preferred Stock pursuant to paragraph F(1) hereof.

(5) The Corporation, at its option, may make payment of the redemption price required upon redemption of shares of ESOP Preferred Stock in case or in shares of Common Stock, or in a combination of such shares and cash, any such shares to be valued for such purpose at their Fair Market Value (as defined in paragraph I(7) hereof).

G. Other Redemption Rights.

Shares of ESOP Preferred Stock shall be redeemed by the Corporation at a price which is the greater of the Conversion Value (as defined in paragraph I) of the ESOP Preferred Stock on the date fixed for redemption or a redemption price of \$42.50 per share plus accrued and unpaid dividends thereon to the date fixed for redemption, for shares of Common Stock (any such shares of Common Stock to be valued for such purpose as provided by paragraph F(5) hereof), at the option of the holder, at any time and from time to time upon notice to the Corporation given not less than five (5) business days prior to the date fixed by the Corporation in such notice for such redemption, when and to the extent necessary (i) to provide for distributions required to be made under, or to satisfy an investment election provided to participants in accordance with, the Plan to participants in the Plan or (ii) to make payment of principal, interest or premium due and payable (whether as scheduled or upon acceleration) on any indebtedness incurred by the holder or Trustee under the Plan for the benefit of the Plan.

H. Consolidation, Merger, etc.

(1) In the event that the Corporation shall consummate any consolidation or merger or similar transaction, however named, pursuant to which the outstanding shares of Common Stock are by operation of law exchanged solely for or changed, reclassified or converted solely into stock of any successor or resulting company (including the Corporation and any company that directly or indirectly owns all of the outstanding capital stock of such successor or resulting company) that constitutes "qualifying employer securities" with respect to a holder of ESOP Preferred Stock within the meaning of Section 409(1) of the Internal Revenue Code of 1986, as amended, and Section 407(d)(5) of ERISA, or any successor provisions of law, and, if applicable, for a cash payment in lieu of fractional shares, if any, the shares of ESOP Preferred Stock of such holder shall be assumed by and shall become preferred stock of such successor or resulting company, having in respect of such company insofar as possible the same powers, preferences and relative, participating, optional or other special rights (including the redemption rights provided by paragraphs F, G and H hereof), and the qualifications, limitations or restrictions thereon, that the ESOP Preferred Stock had immediately prior to such transaction, except that after such transaction each share of the ESOP Preferred Stock shall be convertible, otherwise on the terms and conditions provided by paragraph E hereof, into the qualifying employer securities so receivable by a holder of the number of shares of Common Stock into which such shares of ESOP Preferred Stock could have been converted immediately prior to such transaction if such holder of Common Stock failed to exercise any rights of election to receive any kind or amount of stock, securities, cash or other property (other than such qualifying employer securities and a cash payment, if applicable, in lieu of fractional shares) receivable upon such transaction (provided that, if the kind or amount of qualifying employer securities receivable upon such transaction is not the same for each non-electing share, then the kind and amount of qualifying employer securities receivable upon such transaction for each non-electing share shall be the kind and amount so receivable per share by a plurality of the non-electing shares). The rights of the ESOP Preferred Stock as preferred stock of such successor or resulting company shall successively be subject to adjustments pursuant to paragraph I hereof after any such transaction as nearly equivalent to the adjustments provided for by such paragraph prior to such transaction. The Corporation shall not consummate any such merger, consolidation or similar transaction unless all then outstanding shares of the ESOP Preferred Stock shall be assumed and authorized by the successor or resulting company as aforesaid.

(2) In the event that the Corporation shall consummate any consolidation or merger or similar transaction, however named, pursuant to which the outstanding shares of Common Stock are by operation of law exchanged for or changed, reclassified or converted into other stock or securities or cash or any other property, or any combination thereof, other than any such consideration which is constituted solely of qualifying employer securities (as referred to in paragraph H(1)) and cash payments, if applicable, in lieu of fractional shares, all outstanding shares of ESOP Preferred Stock shall, without any action on the part of the Corporation or any holder thereof (but subject to paragraph H(3)), be deemed converted by virtue of such merger, consolidation or similar transaction immediately prior to such consummation into the number of shares of Common Stock into which such shares of ESOP Preferred Stock could have been converted at such time, and each share of ESOP Preferred Stock shall, by virtue of such transaction and on the same terms as apply to the holders of Common Stock, be converted into or exchanged for the aggregate amount of stock, securities, cash or other property (payable in like kind) receivable by a holder of the number of shares of Common Stock into which such shares of ESOP Preferred Stock could have been converted immediately prior to such transaction if such holder of Common Stock failed to exercise any rights of election as to the kind or amount of stock, securities, cash or other property receivable upon such transaction (provided that, if the kind

or amount of stock, securities, cash or other property receivable upon such transaction is not the same for each non-electing share, then the kind and amount of stock, securities, cash or other property receivable upon such transaction for each non-electing share shall be the kind and amount so receivable per share by a plurality of the non-electing shares).

(3) In the event the Corporation shall enter into any agreement providing for any consolidation or merger or similar transaction described in paragraph H(2), then the Corporation shall as soon as practicable thereafter (and in any event at least ten (10) business days before consummation of such transaction) give notice of such agreement and the material terms thereof to each holder of ESOP Preferred Stock and each such holder shall have the right to elect, by written notice to the Corporation, to receive, upon consummation of such transaction (if and when such transaction is consummated), from the Corporation or the successor of the Corporation, in redemption and retirement of such ESOP Preferred Stock, a cash payment equal to the amount payable in respect of shares of ESOP Preferred Stock upon redemption pursuant to paragraph F(1) hereof. No such notice of redemption shall be effective unless given to the Corporation prior to the close of business on the second business day prior to consummation of such transaction, unless the Corporation or the successor of the Corporation shall waive such prior notice, but any notice of redemption so given prior to such time may be withdrawn by notice of withdrawal given to the Corporation prior to the close of business on the second business day prior to consummation of such transaction.

I. Anti-dilution Adjustments.

(1) In the event the Corporation shall, at any time or from time to time while any of the shares of the ESOP Preferred Stock are outstanding, (i) pay a dividend or make a distribution in respect of the Common Stock in shares of Common Stock, (ii) subdivide the outstanding shares of Common Stock, or (iii) combine the outstanding shares of Common Stock into a smaller number of shares, in each case whether by reclassification of shares, recapitalization of the Corporation (including a recapitalization effected by a merger or consolidation to which paragraph H hereof does not apply) or otherwise, the Conversion Ratio in effect immediately prior to such action shall be adjusted by multiplying such Conversion Ratio by the fraction the numerator of which is the number of shares of Common Stock outstanding immediately before such event and the denominator of which is the number of shares of Common Stock outstanding immediately after such event. An adjustment made pursuant to this paragraph I(1) shall be given effect, upon payment of such a dividend or distribution, as of the record date for the determination of shareholders entitled to receive such dividend or distribution (on a retroactive basis) and in the case of a subdivision or combination shall become effective immediately as of the effective date thereof.

(2) In the event that the Corporation shall, at any time or from time to time while any of the shares of ESOP Preferred Stock are outstanding, issue to holders of shares of Common Stock as a dividend or distribution, including by way of a reclassification of shares or a recapitalization of the Corporation, any right or warrant to purchase shares of Common Stock (but not including as such a right or warrant any security convertible into or exchangeable for shares of Common Stock) at a purchase price per share less than the Fair Market Value (as hereinafter defined) of a share of Common Stock on the date of issuance of such right or warrant, then, subject to the provisions of paragraphs I(5) and I(6), the Conversion Ratio shall be adjusted by multiplying such Conversion Ratio by the fraction the numerator of which shall be the number of shares of Common Stock outstanding immediately before such issuance of rights or warrants plus the number of shares of Common Stock which could be purchased at the Fair Market Value of a share of Common Stock at the time of such issuance for the maximum aggregate consideration payable upon exercise in full of all such rights or warrants and the denominator of which shall be the number of shares of Common Stock outstanding immediately before such issuance of rights or warrants plus the maximum number of shares of Common Stock that could be acquired upon exercise in full of all such rights and warrants.

(3) In the event the Corporation shall, at any time and from time to time while any of the shares of ESOP Preferred Stock are outstanding, issue, sell or exchange shares of Common Stock (other than pursuant to any right or warrant to purchase or acquire shares of Common Stock (including as such a right or warrant any security convertible into or exchangeable for shares of Common Stock) and other than pursuant to any dividend reinvestment plan or employee or director incentive or benefit plan or arrangement, including any employment, severance or consulting agreement, of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted) for a consideration having a Fair Market Value on the date of such issuance, sale or exchange less than the Fair Market Value of such shares on the date of such issuance, sale or exchange, then, subject to the provisions of paragraphs I(5) and I(6), the Conversion Ratio shall be adjusted by multiplying such Conversion Ratio by the fraction the numerator of which shall be the sum of (i) the Fair Market Value of all the shares of Common Stock outstanding on the day immediately preceding the first public announcement of such issuance, sale or exchange plus (ii) the Fair Market Value of the consideration received by the Corporation in respect of such issuance, sale or exchange of shares of Common Stock, and the denominator of which shall be the product of (i) the Fair Market Value of a share of Common Stock on the day immediately preceding the first public announcement of such issuance, sale or exchange multiplied by (ii) the sum of the number of shares of Common Stock outstanding on such day plus the number of shares of Common Stock so issued, sold or exchanges by the Corporation. In the event the Corporation shall, at any time or from time to time while any shares of ESOP Preferred Stock are outstanding, issue, sell or exchange any right or warrant to purchase or acquire shares of Common Stock (including as such a right or warrant any security convertible into or exchangeable for shares of Common Stock), other

than any such issuance to holders of shares of Common Stock as a dividend or distribution (including by way of a reclassification of shares or a recapitalization of the Corporation) and other than pursuant to any dividend reinvestment plan or employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted, for a consideration having a Fair Market Value of the date of such issuance, sale or exchange less than the Non-Dilutive Amount (as hereinafter defined), then, subject to the provisions of paragraphs I(5) and (6), the Conversion Ratio shall be adjusted by multiplying such Conversion Ratio by a fraction the numerator of which shall be the sum of (a) the Fair Market Value of all the shares of Common Stock outstanding on the day immediately preceding the first public announcement of such issuance, sale or exchange plus (b) the Fair Market Value of the consideration received by the Corporation in respect of such issuance, sale or exchange of such right or warrant plus (c) the Fair Market Value at the time of such issuance of the consideration which the Corporation would receive upon exercise in full of all such rights or warrants, and the denominator of which shall be the product of (a) Fair Market Value of a share of Common Stock on the day immediately preceding the first public announcement of such issuance, sale or exchange multiplied by (b) the sum of the number of shares of Common Stock outstanding on such day plus the maximum number of shares of Common Stock which could be acquired pursuant to such right or warrant at the time of the issuance, sale or exchange of such right or warrant (assuming shares of Common Stock could be acquired pursuant to such right or warrant at such time).

(4) In the event the Corporation shall, at any time or from time to time while any of the shares of ESOP Preferred Stock are outstanding, make any Extraordinary Distribution (as hereinafter defined) in respect of the Common Stock, whether by dividend, distribution, reclassification of shares or recapitalization of the Corporation (including a recapitalization or reclassification effected by a merger or consolidation to which paragraph H hereof does not apply) or effect a Pro Rata Repurchase (as herein defined) of Common Stock, the Conversion Ratio in effect immediately prior to such Extraordinary Distribution or Pro Rata Repurchase shall, subject to paragraphs I(5) and I(6), be adjusted by multiplying such Conversion Ratio by a fraction the numerator of which shall be (a) the product of (i) the number of shares of Common Stock outstanding immediately before such Extraordinary Distribution or Pro Rata Repurchase multiplied by (ii) the Fair Market Value (as herein defined) of a share of Common Stock on the Valuation Date (as hereinafter defined) with respect to an Extraordinary Distribution, or on the applicable expiration date (including all extensions thereof) of any tender offer which is a Pro Rata Repurchase, or on the date of purchase with respect to any Pro Rata Repurchase which is not a tender offer, as the case may be, minus (b) the Fair Market Value of the Extraordinary Distribution or the aggregate purchase price of the Pro Rata Repurchase, as the case may be, and the denominator of which shall be the product of (i) the number of shares of Common Stock outstanding immediately before such Extraordinary Distribution or Pro Rata Repurchase minus, in the case of a Pro Rata Repurchase, the number of shares of Common Stock repurchased by the Corporation multiplied by (ii) the Fair Market Value of a share of Common Stock on the record date with respect to an Extraordinary Distribution or on the applicable expiration date (including all extensions thereof) of any tender offer which is a Pro Rata Repurchase or on the date of purchase with respect to any Pro Rata Repurchase which is not a tender offer, as the case may be. The Corporation shall send each holder of ESOP Preferred Stock (x) notice of its intent to make any Extraordinary Distribution and (y) notice of any offer by the Corporation to make a Pro Rata Repurchase, in each case at the same time as, or as soon as practicable after, such offer is first communicated (including by announcement of a record date in accordance with the rules of any stock exchange on which the Common Stock is listed or admitted to trading) to holders of Common Stock. Such notice shall indicate the intended record date and the amount and nature of such dividend or distribution, or the number of share subject to such offer for a Pro Rata Repurchase and the purchase price payable by the Corporation pursuant to such offer, as well as the Conversion Ratio and the number of share of Common Stock into which a share of ESOP Preferred Stock may be converted at such time.

(5) Notwithstanding any other provision of this paragraph I, the Corporation shall not be required to make any adjustment of the Conversion Ratio unless such adjustment would require an increase or decrease of at least one percent (1%) in the Conversion Ratio. Any lesser adjustment shall be carried forward and shall be made no later than the time of, and together with, the next subsequent adjustment which, together with any adjustment or adjustments so carried forward, shall amount to an increase or decrease of at least one percent (1%) in the Conversion Ratio.

(6) If the Corporation shall make any dividend or distribution on the Common Stock or issue any Common Stock, other capital stock or other security of the Corporation or any rights or warrants to purchase or acquire any such security, which transaction does not result in an adjustment to the Conversion Ratio pursuant to the foregoing provision of this paragraph I, the Board of Directors of the Corporation shall consider whether such action is of such a nature that an adjustment to the Conversion Ratio should equitably be made in respect of such transaction. If in such case the Board of Directors of the Corporation determines that the adjustment to the Conversion Ratio should be made, an adjustment shall be made effective as of such date, as determined by the Board of Directors of the Corporation. The determination of the Board of Directors of the Corporation as to whether an adjustment to the Conversion Ratio should be made pursuant to the foregoing provisions of this paragraph I(6), and, if so, as to what adjustment should be made and when, shall be final and binding on the Corporation and all shareholders of the Corporation. The Corporation shall be entitled to make such additional adjustments in the Conversion Ratio, in addition to those required by the foregoing provisions of this paragraph I, as shall be necessary in order that any

dividend or distribution in shares of capital stock of the Corporation, subdivision, reclassification or combination of shares of stock of the Corporation or any recapitalization of the Corporation shall not be taxable to holders of the Common Stock.

(7) For purposes of this paragraph I, the following definitions shall apply:

“Conversion Value” shall mean the Fair Market Value of the aggregate number of shares of Common Stock into which a share of ESOP Preferred Stock is convertible.

“Extraordinary Distribution” shall mean any dividend or other distribution (effected while any of the shares of ESOP Preferred Stock are outstanding) (a) of cash, where the aggregate amount of such cash dividend and distribution together with the amount of all cash dividends and distributions made during the preceding period of 12 months, when combined with the aggregate amount of all Pro Rata Repurchases (for this purpose, including only that portion of the aggregate purchase price of such Pro Rata Repurchase which is in excess of the Fair Market Value of the Common Stock repurchased as determined on the applicable expiration date (including all extension thereof) or any tender offer or exchange offer which is a Pro Rata Repurchase, or the date of purchase with respect to any other Pro Rata Repurchase which is not a tender offer or exchange offer made during such period), exceeds Twelve and One-Half percent (12.5%) of the aggregate Fair Market Value of all shares of Common Stock outstanding on the record date for determining the shareholders entitled to receive such Extraordinary Distribution and (b) any shares of capital stock of the Corporation (other than securities of the type referred to in paragraph I(2)), evidence of indebtedness of the Corporation or any other person or any other property (including shares of any subsidiary of the Corporation), or any combination thereof. The Fair Market Value of an Extraordinary Distribution for purposes of paragraph I(4) shall be the sum of the Fair Market Value of such Extraordinary Distribution plus the amount of any cash dividends which are not Extraordinary Distributions made during such twelve-month period and not previously included in the calculation of an adjustment pursuant to paragraph I(4).

“Fair Market Value” shall mean, as to shares of Common Stock or any other class of capital stock or securities of the Corporation or any other issuer which are publicly traded, the average of the Current Market Prices (as hereinafter defined) of such shares or securities for each day of the Adjustment Period (as hereinafter defined). “Current Market Price” of publicly traded shares of Common Stock or any other class of capital stock or other security of the Corporation or any other issuer for a day shall mean the last reported sales price, regular way, or, in case no sale takes place on such day, the average of the reported closing bid and asked prices, regular way, in either case as reported on the New York Stock Exchange Composite Tape or, if such security is not listed or admitted to trading on the New York Stock Exchange, on the principal national securities exchange on which such security is listed or admitted to trading or, if not listed or admitted to trading on any national securities exchange, on The Nasdaq National Market or, if such security is not quoted on Nasdaq, the average of the closing bid and asked prices on each such day in the over-the-counter market as reported by Nasdaq or, if bid and asked prices for such security on each such day shall not have been reported through Nasdaq, the average of the bid and asked prices for such day as furnished by any New York Stock Exchange member firm selected for such purpose by the Board of Directors of the Corporation or a committee thereof on each trading day during the Adjustment Period. “Adjustment Period” shall mean the period of five (5) consecutive trading days preceding the date as of which the Fair Market Value of a security is to be determined. The “Fair Market Value” of any security which is not publicly traded or of any other property shall mean the fair value thereof as determined by an independent investment banking or appraisal firm experienced in the valuation of such securities or property selected in good faith by the Board of Directors of the Corporation or a committee thereof, or, if no such investment banking or appraisal firm is in the good faith judgment of the Board of Directors or such committee available to make such determination, as determined in good faith by the Board of Directors of the Corporation or such committee.

“Non-Dilutive Amount” in respect of an issuance, sale or exchange by the Corporation of any right or warrant to purchase or acquire shares of Common Stock (including any security convertible into or exchangeable for shares of Common Stock) shall mean the remainder of (a) the product of the Fair Market Value of a share of Common Stock on the day preceding the first public announcement of such issuance, sale or exchange multiplied by the maximum number of shares of Common Stock which could be acquired on such date upon the exercise in full of such rights and warrants (including upon the conversion or exchange of all such convertible or exchangeable securities), whether or not exercisable (or convertible or exchangeable) at such date, minus (b) the aggregate amount payable pursuant to such right or warrant to purchase or acquire with maximum number of shares of Common Stock; provided, however, that in no event shall the Non-Dilutive Amount be less than zero. For purposes of the foregoing sentence, in the case of a security convertible into or exchangeable for shares of Common Stock, the amount payable pursuant to a right or warrant to purchase or acquire shares of Common

Stock shall be the Fair Market Value of such security on the date of the issuance, sale or exchange of such security by the Corporation.

“Pro Rata Repurchase” shall mean any purchase of shares of Common Stock by the Corporation or any subsidiary thereof, whether for cash, shares of capital stock of the Corporation, other securities of the Corporation, evidences of indebtedness of the Corporation or any other person or any other property (including shares of a subsidiary of the Corporation), or any combination thereof, effected while any of the shares of ESOP Preferred Stock are outstanding, pursuant to any tender offer or exchange offer subject to Section 13(e) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), or any successor provision of law, or pursuant to any other offer available to substantially all holders of Common Stock; provided, however, that no purchase of shares by the Corporation or any subsidiary thereof made in open market transactions shall be deemed a Pro Rata Repurchase. For purposes of this paragraph I(7), shares shall be deemed to have been purchased by the Corporation or any subsidiary thereof “in open market transactions” if they have been purchased substantially in accordance with the requirements or Rule 10b-18 as in effect under the Exchange Act, on the date shares of ESOP Preferred Stock are initially issued by the Corporation or on such other terms and conditions as the Board of Directors of the Corporation or a committee thereof shall have determined are reasonably designed to prevent such purchases from having a material effect on the trading market for the Common Stock.

“Valuation Date” with respect to an Extraordinary Distribution shall mean the date that is five (5) business days prior to the record date for such Extraordinary Distribution.

(8) Whenever an adjustment to the Conversion Ratio is required pursuant hereto, the Corporation shall forthwith place on file with the transfer agent for the Common Stock and the ESOP Preferred Stock if there be one, and with the Secretary of the Corporation, a statement signed by two officers of the Corporation, stating the adjusted Conversion Ratio determined as provided herein and the voting rights (as appropriately adjusted) of the ESOP Preferred Stock. Such statement shall set forth in reasonable detail such facts as shall be necessary to show the reason and the manner of computing such adjustment, including any determination of Fair Market Value involved in such computation. Promptly after each adjustment to the Conversion Ratio and the related voting rights of the ESOP Preferred Stock, the Corporation shall mail a notice thereof to each holder of shares of the ESOP Preferred Stock.

J. Ranking; Retirement of Shares.

(1) The ESOP Preferred Stock shall rank (a) senior to the Common Stock as to the payment of dividends and the distribution of assets on liquidation, dissolution and winding-up of the Corporation and (b) unless otherwise provided in the Articles of Incorporation of the Corporation or an amendment to such Articles of Incorporation relating to a subsequent series of Preferred Shares, junior to all other series of Preferred Shares as to the payment of dividends and the distribution of assets on liquidation, dissolution or winding-up.

(2) Any shares of ESOP Preferred Stock acquired by the Corporation by reason of the conversion or redemption of such shares as provided hereby, or otherwise so acquired, shall be retired as shares of ESOP Preferred Stock and restored to the status of authorized but unissued shares of Preferred Shares, undesignated as to series, and may thereafter be reissued as part of a new series of such Preferred Shares as permitted by law.

K. Miscellaneous.

(1) All notices referred to herein shall be in writing, and all notices hereunder shall be deemed to have been given upon the earlier of receipt thereof or three (3) business days after the mailing thereof if sent by registered mail (unless first-class mail shall be specifically permitted for such notice under the terms hereof) with postage prepaid, addressed: (a) if to the Corporation, to its office at Bank of America Corporate Center, Charlotte, North Carolina 28255 (Attention: Treasurer) or to the transfer agent for the ESOP Preferred Stock, or other agent of the Corporation designated as permitted hereby or (b) if to any holder of the ESOP Preferred Stock or Common Stock, as the case may be, to such holder at the address of such holder as listed in the stock record books of the Corporation (which may include the records of any transfer agent for the ESOP Preferred Stock or Common Stock, as the case may be) or (c) to such other address as the Corporation or any such holder, as the case may be, shall have designated by notice similarly given.

(2) The term “Common Stock” as used herein means the Corporation’s Common Stock, as the same existed at the date of filing of the Amendment to the Corporation’s Articles of Incorporation relating to the ESOP Preferred Stock or any other class of stock resulting from successive changes or reclassification of such Common Stock consisting solely of changes in par value, or from par value to no par value. In the event that, at any time as a result of an adjustment made pursuant to paragraph I hereof, the holder of any share of the ESOP Preferred Stock upon thereafter surrendering such shares for conversion shall become entitled to receive any shares or other securities of the Corporation other than shares of Common Stock, the Conversion Ratio in respect of such other shares or securities so receivable upon conversion of shares of ESOP Preferred Stock shall thereafter be adjusted, and shall be subject to further adjustment from time to time, in a manner and on

terms as nearly equivalent as practicable to the provisions with respect to Common Stock contained in paragraph I hereof, and the provisions of paragraphs A through H, J, and K hereof with respect to the Common Stock shall apply on like or similar terms to any such other shares or securities.

(3) The Corporation shall pay any and all stock transfer and documentary stamp taxes that may be payable in respect of any issuance or delivery of shares of ESOP Preferred Stock or shares of Common Stock or other securities issued on account of ESOP Preferred Stock pursuant hereto or certificates representing such shares or securities. The Corporation shall not, however, be required to pay any such tax which may be payable in respect of any transfer involved in the issuance or delivery of shares of ESOP Preferred Stock or Common Stock or other securities in a name other than that in which the shares of ESOP Preferred Stock with respect to which such shares or other securities are issued or delivered were registered, or in respect of any payment to any person with respect to any such shares or securities other than a payment to the registered holder thereof, and shall not be required to make any such issuance, delivery or payment unless and until the person otherwise entitled to such issuance, delivery or payment has paid to the Corporation the amount of any such tax or has established, to the satisfaction of the Corporation, that such tax has been paid or is not payable.

(4) In the event that a holder of shares of ESOP Preferred Stock shall not by written notice designate the name in which shares of Common Stock to be issued upon conversion of such shares should be registered or to whom payment upon redemption of shares of ESOP Preferred Stock should be made or the address to which the certificate or certificates representing such shares, or such payment, should be sent, the Corporation shall be entitled to register such shares, and make such payment, in the name of the holder of such ESOP Preferred Stock as shown on the records of the Corporation and to send the certificate or certificates representing such shares, or such payment, to the address of such holder shown on the records of the Corporation.

(5) The Corporation may appoint, and from time to time discharge and change, a transfer agent for the ESOP Preferred Stock. Upon any such appointment or discharge of a transfer agent, the Corporation shall send notice thereof by first-class mail, postage prepaid, to each holder of record of ESOP Preferred Stock.

(c) \$2.50 Cumulative Convertible Preferred Stock, Series BB.

A. Designation.

The designation of this series is “\$2.50 Cumulative Convertible Preferred Stock, Series BB” (hereinafter referred to as the “Series BB Preferred Stock”), and the initial number of shares constituting such series shall be 19,993,432, which number may be increased or decreased (but not below the number of shares then outstanding) from time to time by the Board of Directors. The Series BB Preferred Stock shall rank prior to each of the Common Stock, the Series B Preferred Stock and the ESOP Preferred Stock with respect to the payment of dividends and the distribution of assets.

B. Dividend Rights.

(1) The holders of shares of Series BB Preferred Stock shall be entitled to receive, when and as declared by the Board of Directors, out of funds legally available therefor, cumulative preferential cash dividends, accruing from January 1, 1998, at an annual rate of \$2.50 per share, and no more, payable quarterly on the first day of January, April, July and October of each year (each of the quarterly periods ending on the last day of March, June, September and December being hereinafter referred to as a “dividend period”). Dividends on the Series BB Preferred Stock shall first become payable on the first day of January, April, July or October, as the case may be, next following the date of issuance; provided, however, that if the first dividend period ends within 20 days of the date of issuance, such initial dividend shall be payable at the completion of the first full dividend period.

(2) Dividends on shares of Series BB Preferred Stock shall be cumulative from January 1, 1998, whether or not there shall be funds legally available for the payment thereof. Accumulations of dividends on the Series BB Preferred Stock shall not bear interest. The Corporation shall not (i) declare or pay or set apart for payment any dividends or distributions on any stock ranking as to dividends junior to the Series BB Preferred Stock (other than dividends paid in shares of such junior stock) or (ii) make any purchase or redemption of, or any sinking fund payment for the purchase or redemption of, any stock ranking as to dividends junior to the Series BB Preferred Stock (other than a purchase or redemption made by issue or delivery of such junior stock) unless all dividends payable on all outstanding shares of Series BB Preferred Stock for all past dividend periods shall have been paid in full or declared and a sufficient sum set apart for payment thereof; provided, however, that any moneys theretofore deposited in any sinking fund with respect to any preferred stock of the Corporation in compliance with the provisions of such sinking fund may thereafter be applied to the purchase or redemption of such preferred stock in accordance with the terms of such sinking fund regardless of whether at the time of such application all dividends payable on all outstanding shares of Series BB Preferred Stock for all past dividend periods shall have been paid in full or declared and a sufficient sum set apart for payment thereof.

(3) All dividends declared on shares of Series BB Preferred Stock and any other class of preferred stock or series thereof ranking on a parity as to dividends with the Series BB Preferred Stock shall be declared pro rata, so that the amounts of dividends declared on the Series BB Preferred Stock and such other preferred stock for the same dividend period, or for the dividend period of the Series BB Preferred Stock ending within the dividend period of such other stock, shall, in all cases, bear to each other the same ratio that accrued dividends on the shares of Series BB Preferred Stock and such other stock bear to each other.

C. Liquidation Preference.

(1) In the event of any liquidation, dissolution or winding up of the affairs of the Corporation, whether voluntary or involuntary, the holders of Series BB Preferred Stock shall be entitled to receive out of the assets of the Corporation available for distribution to shareholders an amount equal to \$25 per share plus an amount equal to accrued and unpaid dividends thereon to and including the date of such distribution, and no more, before any distribution shall be made to the holders of any class of stock of the Corporation ranking junior to the Series BB Preferred Stock as to the distribution of assets.

(2) In the event the assets of the Corporation available for distribution to shareholders upon any liquidation, dissolution or winding up of the affairs of the Corporation, whether voluntary or involuntary, shall be insufficient to pay in full the amounts payable with respect to the Series BB Preferred Stock and any other shares of preferred stock of the Corporation ranking on a parity with the Series BB Preferred Stock as to the distribution of assets, the holders of Series BB Preferred Stock and the holders of such other preferred stock shall share ratably in any distribution of assets of the Corporation in proportion to the full respective preferential amounts to which they are entitled.

(3) The merger or consolidation of the Corporation into or with any other corporation, the merger or consolidation of any other corporation into or with the Corporation or the sale of the assets of the Corporation substantially as an entirety shall not be deemed a liquidation, dissolution or winding up of the affairs of the Corporation within the meaning of this paragraph C.

D. Redemption.

(1) The Corporation, at its option, may redeem all or any shares of the Series BB Preferred Stock at any time at a redemption price (the "Redemption Price") consisting of the sum of (i) \$25 per share and (ii) an amount equal to accrued and unpaid dividends thereon to and including the date of redemption.

(2) If less than all the outstanding shares of Series BB Preferred Stock are to be redeemed, the shares to be redeemed shall be selected pro rata as nearly as practicable or by lot, as the Board of Directors may determine.

(3) Notice of any redemption shall be given by first class mail, postage prepaid, mailed not less than 60 nor more than 90 days prior to the date fixed for redemption to the holders of record of the shares of Series BB Preferred Stock to be redeemed, at their respective addresses appearing on the books of the Corporation. Notice so mailed shall be conclusively presumed to have been duly given whether or not actually received. Such notice shall state: (1) the date fixed for redemption; (2) the Redemption Price; (3) the right of the holders of Series BB Preferred Stock to convert such stock into Common Stock until the close of business on the 15th day prior to the redemption date (or the next succeeding business day, if the 15th day is not a business day); (4) if no less than all the shares held by such holder are to be redeemed, the number of shares to be redeemed from such holder; and (5) the place(s) where certificates for such shares are to be surrendered for payment of the Redemption Price. If such notice is mailed as aforesaid, and if on or before the date fixed for redemption funds sufficient to redeem the shares called for redemption are set aside by the Corporation in trust for the account of the holders of the shares to be redeemed, notwithstanding the fact that any certificate for shares called for redemption shall not have been surrendered for cancellation, on and after the redemption date the shares represented thereby so called for redemption shall be deemed to be no longer outstanding, dividends thereon shall cease to accrue, and all rights of the holders of such shares as shareholders of the corporation shall cease, except the right to receive the Redemption Price, without interest, upon surrender of the certificate(s) representing such shares. Upon surrender in accordance with the aforesaid notice of the certificate(s) for any shares so redeemed (duly endorsed or accompanied by appropriate instruments of transfer, if so required by the Corporation in such notice), the holders of record of such shares shall be entitled to receive the Redemption Price, without interest.

(4) At the option of the Corporation, if notice of redemption is mailed as aforesaid, and if prior to the date fixed for redemption funds sufficient to pay in full the Redemption Price are deposited in trust, for the account of the holders of the shares to be redeemed, with a bank or trust company named in such notice doing business in the Borough of Manhattan, the City of New York, State of New York or the City of Charlotte, State of North Carolina and having capital, surplus and undivided profits of at least \$3 million, which bank or trust company also may be the Transfer Agent and/or Paying Agent for the Series BB Preferred Stock, notwithstanding the fact that any certificate for shares called for redemption shall not have been surrendered for cancellation, on and after such date of deposit the shares represented thereby so called for redemption shall be deemed to be no longer outstanding, and all rights of the holders of such shares as shareholders of the Corporation shall cease, except the right of the holders thereof to convert such shares in accordance with the provisions of paragraph F at any time prior

to the close of business on the 15th day prior to the redemption date (or the next succeeding business day, if the 15th day is not a business day), and the right of the holders thereof to receive out of the funds so deposited in trust the Redemption Price, without interest, upon surrender of the certificate(s) representing such shares. Any funds so deposited with such bank or trust company in respect of such shares of Series BB Preferred Stock converted before the close of business on the 15th day prior to the redemption date (or the next succeeding business day, if the 15th day is not a business day) shall be returned to the Corporation upon such conversion. Any funds so deposited with such a bank or trust company which shall remain unclaimed by the holders of shares called for redemption at the end of six years after the redemption date shall be repaid to the Corporation, on demand, and thereafter the holder of any such shares shall look only to the Corporation for the payment, without interest, of the Redemption Price.

(5) Any provisions of paragraph D or E to the contrary notwithstanding, in the event that any quarterly dividend payable on the Series BB Preferred Stock shall be in arrears and until all such dividends in arrears shall have been paid or declared and set apart for payment, the Corporation shall not redeem any shares of Series BB Preferred Stock unless all outstanding shares of Series BB Preferred Stock are simultaneously redeemed and shall not purchase or otherwise acquire any shares of Series BB Preferred Stock except in accordance with a purchase offer made by the Corporation on the same terms to all holders of record of Series BB Preferred Stock for the purchase of all outstanding shares thereof.

E. Purchase by the Corporation.

(1) Except as provided in paragraph D(5), the Corporation shall be obligated to purchase shares of Series BB Preferred Stock tendered by the holder thereof for purchase hereunder, at a purchase price consisting of the sum of (i) \$25 per share and (ii) an amount equal to accrued and unpaid dividends thereon to and including the date of purchase. In order to exercise his right to require the Corporation to purchase his shares of Series BB Preferred Stock, the holder thereof shall surrender the Certificate(s) therefor duly endorsed if the Corporation shall so require or accompanied by appropriate instruments of transfer satisfactory to the Corporation, at the office of the Transfer Agent(s) for the Series BB Preferred Stock, or at such other office as may be designated by the Corporation, together with written notice that such holder irrevocably elects to sell such shares to the Corporation. Shares of Series BB Preferred Stock shall be deemed to have been purchased by the Corporation immediately prior to the close of business on the date such shares are tendered for sale to the Corporation and notice of election to sell the same is received by the Corporation in accordance with the foregoing provisions. As of such date the shares so tendered for sale shall be deemed to be no longer outstanding, dividends thereon shall cease to accrue and all rights of the holder of such shares as a shareholder of the Corporation shall cease, except the right to receive the purchase price.

F. Conversion Rights.

The holders of shares of Series BB Preferred Stock shall have the right, at their option, to convert such shares into shares of Common Stock on the following terms and conditions:

(1) Shares of Series BB Preferred Stock shall be convertible at any time into fully paid and nonassessable shares of Common Stock (calculated as to each conversion to the nearest 1/1,000 of a share) at the initial rate of 6.17215 shares of Common Stock for each share of Series BB Preferred Stock surrendered for conversion (the "Conversion Rate"). The Conversion Rate shall be subject to adjustment from time to time as hereinafter provided. No payment or adjustment shall be made on account of any accrued and unpaid dividends on shares of Series BB Preferred Stock surrendered for conversion prior to the record date for the determination of shareholders entitled to such dividends or on account of any dividends on the Common Stock issued upon such conversion subsequent to the record date for the determination of shareholders entitled to such dividends. If any shares of Series BB Preferred Stock shall be called for redemption, the right to convert the shares designated for redemption shall terminate at the close of business on the 15th day prior to the redemption date (or the next succeeding business day, if the 15th day is not a business day) unless default be made in the payment of the Redemption Price. In the event of default in the payment of the Redemption Price, the right to convert the shares designated for redemption shall terminate at the close of business on the business day immediately preceding the date that such default is cured.

(2) In order to convert shares of Series BB Preferred Stock into Common Stock, the holder thereof shall surrender the certificate(s) therefor, duly endorsed if the Corporation shall so require, or accompanied by appropriate instruments of transfer satisfactory to the Corporation, at the office of the Transfer Agent(s) for the Series BB Preferred Stock, or at such other office as may be designated by the Corporation, together with written notice that such holder irrevocably elects to convert such shares. Such notice shall also state the name(s) and address(es) in which such holder wishes the certificate(s) for the shares of Common Stock issuable upon conversion to be issued. As soon as practicable after receipt of the certificate(s) representing the shares of Series BB Preferred Stock to be converted and the notice of election to convert the same, the Corporation shall issue and deliver at said office a certificate or certificates for the number of whole shares of Common Stock issuable upon conversion of the shares of Series BB Preferred Stock surrendered for conversion, together with a cash payment in lieu of any fraction of a share, as hereinafter provided, to the person(s) entitled to receive the same. Shares of Series BB Preferred Stock shall be deemed to have been converted immediately prior to the close of business on the date such shares are surrendered for

conversion and notice of election to convert the same is received by the Corporation in accordance with the foregoing provisions, and the person(s) entitled to receive the Common Stock issuable upon such conversion shall be deemed for all purposes as record holder(s) of such Common Stock as of such date.

(3) No fractional shares of Common Stock shall be issued upon conversion of any shares of Series BB Preferred Stock. If more than one share of Series BB Preferred Stock is surrendered at one time by the same holder, the number of full shares issuable upon conversion thereof shall be computed on the basis of the aggregate number of shares so surrendered. If the conversion of any shares of Series BB Preferred Stock results in a fractional share of Common Stock, the Corporation shall pay cash in lieu thereof in an amount equal to such fraction multiplied times the closing price of the Common Stock on the date on which the shares of Series BB Preferred Stock were duly surrendered for conversion, or if such date is not a trading date, on the next succeeding trading date. The closing price of the Common Stock for any day shall mean the last reported sales price regular way on such day or, in case no such sale takes place on such day, the average of the reported closing bid and asked prices, regular way, on the New York Stock Exchange, or, if the Common Stock is not then listed on such Exchange, on the principal national securities exchange on which the Common Stock is listed for trading, or, if not then listed for trading on any national securities exchange, the average of the closing bid and asked prices of the Common Stock as furnished by the National Quotation Bureau, Inc., or if the National Quotation Bureau, Inc. ceases to furnish such information, by a comparable independent securities quotation service.

(4) In the event the Corporation shall at any time (i) pay a dividend or make a distribution to holders of Common Stock in shares of Common Stock, (ii) subdivide its outstanding shares of Common Stock into a larger number of shares, or (iii) combine its outstanding shares of Common Stock into a smaller number of shares, the Conversion Rate in effect at the time of the record date for such dividend or distribution or the effective date of such subdivision or combination shall be adjusted so that the holder of any shares of Series BB Preferred Stock surrendered for conversion after such record date or effective date shall be entitled to receive the number of shares of Common Stock which he would have owned or have been entitled to receive immediately following such record date or effective date had such shares of Series BB Preferred Stock been converted immediately prior thereto.

(5) Whenever the Conversion Rate shall be adjusted as herein provided (i) the Corporation shall forthwith keep available at the office of the Transfer Agent(s) for the Series BB Preferred Stock a statement describing in reasonable detail the adjustment, the facts requiring such adjustment and the method of calculation used; and (ii) the Corporation shall cause to be mailed by first class mail, postage prepaid, as soon as practicable to each holder of record of shares of Series BB Preferred Stock a notice stating that the Conversion Rate has been adjusted and setting forth the adjusted Conversion Rate.

(6) In the event of any consolidation of the Corporation with or merger of the Corporation into any other corporation (other than a merger in which the Corporation is the surviving corporation) or a sale of the assets of the Corporation substantially as an entirety, the holder of each share of Series BB Preferred Stock shall have the right, after such consolidation, merger or sale to convert such share into the number and kind of shares of stock or other securities and the amount and kind of property receivable upon such consolidation, merger or sale by a holder of the number of shares of Common Stock issuable upon conversion of such share of Series BB Preferred Stock immediately prior to such consolidation, merger or sale. Provision shall be made for adjustments in the Conversion Rate which shall be as nearly equivalent as may be practicable to the adjustments provided for in paragraph F(4). The provisions of this paragraph F(6) shall similarly apply to successive consolidations, mergers and sales.

(7) The Corporation shall pay any taxes that may be payable in respect of the issuance of shares of Common Stock upon conversion of shares of Series BB Preferred Stock, but the Corporation shall not be required to pay any taxes which may be payable in respect of any transfer involved in the issuance of shares of Common Stock in a name other than that in which the shares of Series BB Preferred Stock so converted are registered, and the Corporation shall not be required to issue or deliver any such shares unless and until the person(s) requesting such issuance shall have paid to the Corporation the amount of any such taxes or shall have established to the satisfaction of the Corporation that such taxes have been paid.

(8) The Corporation shall at all times reserve and keep available out of its authorized but unissued Common Stock the full number of shares of Common Stock issuable upon the conversion of all shares of Series BB Preferred Stock then outstanding.

(9) In the event that:

- (i) The Corporation shall declare a dividend or any other distribution on its Common Stock, payable otherwise than in cash out of retained earnings; or
- (ii) The Corporation shall authorize the granting to the holders of its Common Stock of rights to subscribe for or purchase any shares of capital stock of any class or of any other rights; or

(iii) The Corporation shall propose to effect any consolidation of the Corporation with or merger of the Corporation with or into any other corporation or a sale of the assets of the company substantially as an entirety which would result in an adjustment under paragraph F(6),

the Corporation shall cause to be mailed to the holders of record of Series BB Preferred Stock at least 20 days prior to the applicable date hereinafter specified a notice stating (x) the date on which a record is to be taken for the purpose of such dividend, distribution or rights or, if a record is not to be taken, the date as of which the holders of Common Stock of record to be entitled to such dividend, distribution or rights are to be determined or (y) the date on which such consolidation, merger or sale is expected to become effective, and the date as of which it is expected that holders of Common Stock of record shall be entitled to exchange their shares of Common Stock for securities or other property deliverable upon such consolidation, merger or sale. Failure to give such notice, or any defect therein, shall not affect the legality or validity of such dividend, distribution, consolidation, merger or sale.

G. Voting Rights.

Holders of Series BB Preferred Stock shall have no voting rights except as required by law and as follows: in the event that any quarterly dividend payable on the Series BB Preferred Stock is in arrears, the holders of Series BB Preferred Stock shall be entitled to vote together with the holders of Common Stock at the Corporation's next meeting of shareholders and at each subsequent meeting of shareholders unless all dividends in arrears have been paid or declared and set apart for payment prior to the date of such meeting. For the purpose of this paragraph G, each holder of Series BB Preferred Stock shall be entitled to cast the number of votes equal to the number of whole shares of Common Stock into which his Series BB Preferred Stock is then convertible.

H. Reacquired Shares.

Shares of Series BB Preferred Stock converted, redeemed, or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

I. No Sinking Fund.

Shares of Series BB Preferred Stock are not subject to the operation of a sinking fund.

(d) Pursuant to the authority conferred by this Article 3, the following series of Preferred Shares have been designated, each such series consisting of such number of shares, with such voting powers and with such designations, preferences and relative, participating, optional or other special rights, and qualifications, limitations or restrictions thereof as are stated and expressed in the exhibit with respect to such series attached hereto as specified below and incorporated herein by reference:

<u>Exhibit A</u>	Floating Rate Non-Cumulative Preferred Stock, Series E
<u>Exhibit B</u>	Floating Rate Non-Cumulative Preferred Stock, Series F
<u>Exhibit C</u>	Adjustable Rate Non-Cumulative Preferred Stock, Series G
<u>Exhibit D</u>	7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L
<u>Exhibit E</u>	Floating Rate Non-Cumulative Preferred Stock, Series 1
<u>Exhibit F</u>	Floating Rate Non-Cumulative Preferred Stock, Series 2
<u>Exhibit G</u>	Floating Rate Non-Cumulative Preferred Stock, Series 4
<u>Exhibit H</u>	Floating Rate Non-Cumulative Preferred Stock, Series 5
<u>Exhibit I</u>	Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U
<u>Exhibit J</u>	6% Non-Cumulative Perpetual Preferred Stock, Series T
<u>Exhibit K</u>	Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X
<u>Exhibit L</u>	Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z
<u>Exhibit M</u>	6.500% Non-Cumulative Preferred Stock, Series Y
<u>Exhibit N</u>	Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA
<u>Exhibit O</u>	6.200% Non-Cumulative Preferred Stock, Series CC
<u>Exhibit P</u>	Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD
<u>Exhibit Q</u>	6.000% Non-Cumulative Preferred Stock, Series EE
<u>Exhibit R</u>	Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF
<u>Exhibit S</u>	6.000% Non-Cumulative Preferred Stock, Series GG
<u>Exhibit T</u>	5.875% Non-Cumulative Preferred Stock, Series HH
<u>Exhibit U</u>	Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series JJ
<u>Exhibit V</u>	5.375% Non-Cumulative Preferred Stock, Series KK
<u>Exhibit W</u>	5.000% Non-Cumulative Preferred Stock, Series LL

4. The address of the Corporation's registered office in the State of Delaware is Corporation Trust Center, 1209 Orange Street in the City of Wilmington, County of New Castle. The name of the Corporation's registered agent at such address is The Corporation Trust Company.

5. No holder of any stock of the Corporation of any class now or hereafter authorized shall have any preemptive right to purchase, subscribe for, or otherwise acquire any shares of stock of the Corporation of any class now or hereafter authorized, or any securities exchangeable for or convertible into any such shares, or any warrants or other instruments evidencing rights or options to subscribe for, purchase or otherwise acquire any such shares whether such shares, securities, warrants or other instruments be unissued, or issued and thereafter acquired by the Corporation.

6. To the fullest extent permitted by the General Corporation Law of the State of Delaware, as the same exists or may hereafter be amended, a director of the Corporation shall not be personally liable to the Corporation, its shareholders or otherwise for monetary damage for breach of his duty as a director. Any repeal or modification of this Article shall be

prospective only and shall not adversely affect any limitation on the personal liability of a director of the Corporation existing at the time of such repeal or modification.

7. In furtherance and not in limitation of the powers conferred by law, the Board of Directors of the Corporation is expressly authorized and empowered to make, alter and repeal the Bylaws of the Corporation by a majority vote at any regular or special meeting of the Board of Directors or by written consent, subject to the power of the stockholders of the Corporation to alter or repeal any Bylaws made by the Board of Directors.

8. The Corporation reserves the right at any time from time to time to amend or repeal any provision contained in this Certificate of Incorporation, and to add any other provisions authorized by the laws of the State of Delaware at the time in force; and all rights, preferences and privileges conferred upon stockholders, directors or any other persons by and pursuant to this Certificate of Incorporation in its present form or as hereafter amended are granted subject to the rights reserved in this Article.

9. Unless and except to the extent that the Bylaws of the Corporation shall so require, the election of directors of the Corporation need not be by written ballot.

10. Any action required or permitted to be taken by the stockholders of the Corporation must be effected at a duly called annual or special meeting of stockholders of the Corporation or may be effected by consent in writing in lieu of a meeting of such stockholders only if consents are signed by all stockholders of the Corporation entitled to vote on such action.

[Signature Page Follows]

IN WITNESS WHEREOF, Bank of America Corporation has caused this Restated Certificate of Incorporation to be signed by its duly authorized officer this 27th day of December, 2019.

BANK OF AMERICA CORPORATION

By: /s/ Ross E. Jeffries, Jr.

Name: Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

Exhibit A

Floating Rate Non-Cumulative Preferred Stock, Series E

**CERTIFICATE OF DESIGNATIONS
OF
FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES E
OF
BANK OF AMERICA CORPORATION**

Pursuant to Section 151 of the
General Corporation Law of the State of Delaware

Bank of America Corporation, a corporation organized and existing under the General Corporation Law of the State of Delaware (the "Corporation"), does hereby certify that:

1. At a meeting duly convened and held on July 26, 2006, the Board of Directors of the Corporation (the "Board") duly adopted resolutions (a) authorizing the issuance and sale by the Corporation of one or more series of the Corporation's preferred stock, and (b) appointing a Committee (the "Committee") of the Board to act on behalf of the Board in establishing the number of authorized shares, the dividend rate and other powers, designations, preferences and rights of the preferred stock.

2. Thereafter, on October 30, 2006, the Committee duly adopted the following resolution by written consent:

"RESOLVED, that the powers, designations, preferences and relative, participating, optional or other special rights, and the qualifications, limitations or restrictions thereof, of the Corporation's Floating Rate Non-Cumulative Preferred Stock, Series E, including those established by the Board and the number of authorized shares and dividend rate established hereby, are authorized and approved as set forth in Exhibit A hereto, which is incorporated herein by reference."

IN WITNESS WHEREOF, this Certificate of Designations is executed on behalf of the Corporation by its duly authorized officer this 3rd day of November, 2006.

BANK OF AMERICA CORPORATION

/s/ TERESA M. BRENNER

By:

Name: Teresa M. Brenner

Title: Associate General Counsel

EXHIBIT A
TO
CERTIFICATE OF DESIGNATIONS
OF
FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES E
OF
BANK OF AMERICA CORPORATION

Section 1. Designation. The designation of the series of preferred stock shall be “Floating Rate Non-Cumulative Preferred Stock, Series E” (the “*Series E Preferred Stock*”). Each share of Series E Preferred Stock shall be identical in all respects to every other share of Series E Preferred Stock. Series E Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares. The number of authorized shares of Series E Preferred Stock shall be 85,100. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series E Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors of the Corporation, the Committee or any other duly authorized committee of the Board of Directors of the Corporation and by the filing of a certificate pursuant to the provisions of the General Corporation Law of the State of Delaware stating that such increase or reduction, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series E Preferred Stock.

Section 3. Definitions. As used herein with respect to Series E Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Calculation Agent*” shall mean The Bank of New York Trust Company, N.A., or such other bank or entity as may be appointed by the Corporation to act as calculation agent for the Series E Preferred Stock.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of “Three-Month LIBOR.”

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series E Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means (a) the Corporation’s 7% Cumulative Redeemable Preferred Stock, Series B, (b) the Corporation’s 6.204% Non-Cumulative Preferred Stock, Series D and (c) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series E Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series E Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“Series E Preferred Stock” shall have the meaning set forth in Section 1 hereof.

“Telerate Page 3750” means the display page so designated on the Moneyline/Telerate Service (or any other page as may replace that page on that service, or any other service as may be nominated as the information vendor, for the purpose of displaying rates or prices comparable to the London Interbank Offered Rate for U.S. dollar deposits).

“Three-Month LIBOR” means, with respect to any Dividend Period, the offered rate (expressed as a percentage per annum) for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Telerate Page 3750 as of 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend Determination Date*”). If such rate does not appear on Telerate Page 3750, Three-Month LIBOR will be determined on the basis of the rates at which deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000 are offered to prime banks in the London interbank market by four major banks in the London interbank market selected by the Corporation, at approximately 11:00 A.M., London time on the second London Banking Day immediately preceding the first day of that Dividend Period. The Calculation Agent will request the principal London office of each of such banks to provide a quotation of its rate. If at least two such quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of such quotations. If fewer than two quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of the rates quoted by three major banks in New York City selected by the Corporation, at approximately 11:00 a.m., New York City time, on the first day of that Dividend Period for loans in U.S. dollars to leading European banks for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000. However, if fewer than three banks selected by the Corporation to provide quotations are not quoting as described above, Three-Month LIBOR for that Dividend Period will be the same as Three-Month LIBOR as determined for the previous Dividend Period, or in the case of the first Dividend Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had Series E Preferred Stock been outstanding. The calculation agent’s establishment of Three-Month LIBOR and calculation of the amount of dividends for each Dividend Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series E Preferred Stock upon request and will be final and binding in the absence of manifest error.

Section 4. Dividends.

(a) Rate. Holders of Series E Preferred Stock shall be entitled to receive, if, as and when declared by the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation, but only out of assets legally available therefor, non-cumulative cash dividends on the liquidation preference of \$25,000 per share of Series E Preferred Stock, and no more, payable quarterly in arrears on each February 15, May 15, August 15 and November 15; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day, unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day (in either case, without any interest or other payment in respect of such delay) (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from and including the date of issuance of the Series E Preferred Stock or any Dividend Payment Date to but excluding the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series E Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate per annum equal to the greater of (i) Three-Month LIBOR plus a spread of 0.35% and (ii) 4.00%. The record date for payment of dividends on the Series E Preferred Stock shall be the last Business Day of the calendar month immediately preceding the month during which the Dividend Payment Date falls. The amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period.

(b) Non-Cumulative Dividends. Dividends on shares of Series E Preferred Stock shall be non-cumulative. To the extent that any dividends payable on the shares of Series E Preferred Stock on any Dividend Payment Date are not declared and paid, in full or otherwise, on such Dividend Payment Date, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable and the Corporation shall have no obligation to pay, and the holders of Series E Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series E Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series E Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a

reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series E Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case unless full dividends on all outstanding shares of Series E Preferred Stock for the then-current Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series E Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series E Preferred Stock for the then-current Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series E Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a pro rate basis among the holders of the shares of Series E Preferred Stock and the holders of any Parity Stock. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series E Preferred Stock and the aggregate of the current and accrued dividends due on the Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series E Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation may be declared and paid on any Junior Stock from time to time out of any assets legally available therefor, and the shares of Series E Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series E Preferred Stock shall be entitled, out of assets legally available therefor, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series E Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series E Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series E Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series E Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences plus any dividends which have been declared but not yet paid of Series E Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series E Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors of the Corporation, may redeem out of funds legally available therefor, in whole or in part, the shares of Series E Preferred Stock at the time outstanding, at any time on any Dividend Payment Date on or after the Dividend Payment

Date on November 15, 2011, upon notice given as provided in Section 6(b) below. The redemption price for shares of Series E Preferred Stock shall be \$25,000 per share plus dividends that have been declared but not paid.

(b) Notice of Redemption. Notice of every redemption of shares of Series E Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series E Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series E Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series E Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series E Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series E Preferred Stock at the time outstanding, the shares of Series E Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series E Preferred Stock in proportion to the number of Series E Preferred Stock held by such holders or by lot or in such other manner as the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation may determine to be fair and equitable. Subject to the provisions of this Section 6, the Board of Directors of the Corporation, the Committee or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series E Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other assets, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors (the "*Depository Company*") in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue after such redemption date, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series E Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraph 7(b) below or as required by Delaware law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series E Preferred Stock or any other class or series of preferred stock that ranks on parity with Series E Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b) have been conferred and are exercisable, have not been paid in an aggregate amount equal, as to any class or series, to at least six quarterly Dividend Periods (whether consecutive or not), the number of directors constituting the Board of Directors of the Corporation shall be increased by two, and the holders of the Series E Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of the such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further

provided that the Board of Directors of the Corporation shall at no time include more than two such directors. Each such director elected by the holders of shares of Series E Preferred Stock and any other class or series of preferred stock that ranks on parity with the Series E Preferred Stock as to payment of dividends is a “*Preferred Director*.”

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series E Preferred Stock and any other class or series of our stock that ranks on parity with Series E Preferred Stock as to payment of dividends and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series E Preferred Stock (addressed to the secretary at the Corporation’s principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series E Preferred Stock and any other class or series of preferred stock that ranks on parity with Series E Preferred Stock as to payment of dividends and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting will be given in a similar manner to that provided in the Corporation’s by-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series E Preferred Stock may (at our expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of our stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series E Preferred Stock (together with holders of any other class of the Corporation’s authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series E Preferred Stock and any other class or series of preferred stock that ranks on parity with Series E Preferred Stock as to payment of dividends, if any, for at least four quarterly Dividend Periods, then the right of the holders of Series E Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate and the number of directors constituting the board of directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series E Preferred Stock (together with holders of any other class of the Corporation’s authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

Section 8. Preemption and Conversion. The holders of Series E Preferred Stock shall not have any rights of preemption or rights to convert such Series E Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors of the Corporation, the Committee or any authorized committee of the Board of Directors of the Corporation, without the vote of the holders of the Series E Preferred Stock, may authorize and issue additional shares of Junior Stock, Parity Stock or any class or series of Senior Stock or any other securities ranking senior to the Series E Preferred Stock as to dividends and the distribution of assets upon any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series E Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series E Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series E Preferred Stock are not subject to the operation of a sinking fund.

Exhibit B

Floating Rate Non-Cumulative Preferred Stock, Series F

**CERTIFICATE OF DESIGNATIONS
OF
FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES F
OF
BANK OF AMERICA CORPORATION**

Pursuant to Section 151 of the
General Corporation Law of the State of Delaware

Bank of America Corporation, a corporation organized and existing under the General Corporation Law of the State of Delaware (the "*Corporation*"), does hereby certify that:

1. At a meeting duly convened and held on April 26, 2006, the Board of Directors of the Corporation (the "*Board*") duly adopted resolutions (a) authorizing the issuance and sale by the Corporation of one or more series of the Corporation's preferred stock, and (b) appointing a Committee (the "*Committee*") of the Board to act on behalf of the Board in establishing the number of authorized shares, the dividend rate and other powers, designations, preferences and rights of the preferred stock.

2. Thereafter, on February 12, 2007, the Committee duly adopted the following resolution by written consent: **'RESOLVED**, that the powers, designations, preferences and relative, participating, optional or other special rights, and the qualifications, limitations or restrictions thereof, of the Corporation's Floating Rate Non-Cumulative Preferred Stock, Series F, including those established by the Board and the number of authorized shares and dividend rate established hereby, are authorized and approved as set forth in Exhibit A hereto, which is incorporated herein by reference."

IN WITNESS WHEREOF, this Certificate of Designations is executed on behalf of the Corporation by its duly authorized officer this 15th day of February, 2007.

BANK OF AMERICA CORPORATION

By: /s/ TERESA M. BRENNER

Name: Teresa M. Brenner

Title: Associate General Counsel

EXHIBIT A
TO
CERTIFICATE OF DESIGNATIONS
OF
FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES F
OF
BANK OF AMERICA CORPORATION

Section 1. Designation. The designation of the series of preferred stock shall be “Floating Rate Non-Cumulative Preferred Stock, Series F” (the “*Series F Preferred Stock*”). Each share of Series F Preferred Stock shall be identical in all respects to every other share of Series F Preferred Stock. Series F Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares. The number of authorized shares of Series F Preferred Stock shall be 7,001. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series F Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors of the Corporation, the Committee or any other duly authorized committee of the Board of Directors of the Corporation and by the filing of a certificate pursuant to the provisions of the General Corporation Law of the State of Delaware stating that such increase or reduction, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series F Preferred Stock.

Section 3. Definitions. As used herein with respect to Series F Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Calculation Agent*” shall mean The Bank of New York Trust Company, N.A., or such other bank or entity as may be appointed by the Corporation to act as calculation agent for the Series F Preferred Stock.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of “Three-Month LIBOR.”

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series F Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means (a) the Corporation’s 7% Cumulative Redeemable Preferred Stock, Series B, (b) the Corporation’s 6.204% Non-Cumulative Preferred Stock, Series D, (c) the Corporation’s Floating Rate Non-Cumulative Preferred Stock, Series E, (d) the Corporation’s Adjustable Rate Non-Cumulative Preferred Stock, Series G and (e) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series F Preferred Stock in the payment of dividends or in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series F Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series F Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“*Telerate Page 3750*” means the display page so designated on the Moneyline/Telerate Service (or any other page as may replace that page on that service, or any other service as may be nominated as the information vendor, for the purpose of displaying rates or prices comparable to the London Interbank Offered Rate for U.S. dollar deposits).

“*Three-Month LIBOR*” means, with respect to any Dividend Period, the offered rate (expressed as a percentage per annum) for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Telerate Page 3750 as of 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend Determination Date*”). If such rate does not appear on Telerate Page 3750, Three-Month LIBOR will be determined on the basis of the rates at which deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000 are offered to prime banks in the London interbank market by four major banks in the London interbank market selected by the Corporation, at approximately 11:00 a.m., London time on the second London Banking Day immediately preceding the first day of that Dividend Period. The Calculation Agent will request the principal London office of each of such banks to provide a quotation of its rate. If at least two such quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of such quotations. If fewer than two quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of the rates quoted by three major banks in New York City selected by the Corporation, at approximately 11:00 a.m., New York City time, on the first day of that Dividend Period for loans in U.S. dollars to leading European banks for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000. However, if fewer than three banks selected by the Corporation to provide quotations are not quoting as described above, Three-Month LIBOR for that Dividend Period will be the same as Three-Month LIBOR as determined for the previous Dividend Period, or in the case of the first Dividend Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had Series F Preferred Stock been outstanding. The Calculation Agent’s establishment of Three-Month LIBOR and calculation of the amount of dividends for each Dividend Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series F Preferred Stock upon request and will be final and binding in the absence of manifest error.

Section 4. Dividends.

(a) Rate. Holders of Series F Preferred Stock shall be entitled to receive, if, as and when declared by the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation, but only out of assets legally available therefor, non-cumulative cash dividends on the liquidation preference of \$100,000 per share of Series F Preferred Stock, and no more, payable quarterly in arrears on each March 15, June 15, September 15 and December 15; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day, unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day (in either case, without any interest or other payment in respect of such delay) (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from and including the date of issuance of the Series F Preferred Stock or any Dividend Payment Date to but excluding the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series F Preferred Stock will accrue on the liquidation preference of \$100,000 per share for each Dividend Period (1) from the date of issuance to, but excluding, the Dividend Payment Date in March 2012 (if issued prior to that date) at a rate per annum equal to Three-Month LIBOR plus a spread of 0.40% and (2) thereafter at a rate per annum equal to the greater of (i) Three-Month LIBOR plus a spread of 0.40% and (ii) 4.00%. The record date for payment of dividends on the Series F Preferred Stock shall be the last Business Day of the calendar month immediately preceding the month during which the Dividend Payment Date falls. The amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period.

(b) Non-Cumulative Dividends. Dividends on shares of Series F Preferred Stock shall be non-cumulative. To the extent that any dividends payable on the shares of Series F Preferred Stock on any Dividend Payment Date are not declared and paid, in full or otherwise, on such Dividend Payment Date, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable and the Corporation shall have no obligation to pay, and the holders of Series F Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series F Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series F Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series F Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case unless full dividends on all outstanding shares of Series F Preferred Stock for the then-current Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series F Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series F Preferred Stock for the then-current Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series F Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series F Preferred Stock and the holders of any Parity Stock. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series F Preferred Stock and the aggregate of the current and accrued dividends due on the Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series F Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation may be declared and paid on any Junior Stock from time to time out of any assets legally available therefor, and the shares of Series F Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series F Preferred Stock shall be entitled, out of assets legally available therefor, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series F Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$100,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series F Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series F Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series F Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences plus any dividends which have been declared but not yet paid of Series F Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series F Preferred Stock and all holders of any Parity Stock, then the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors of the Corporation, may redeem out of funds legally available therefor, in whole or in part, the shares of Series F Preferred Stock at the time outstanding, at any time on or after the later of March 15, 2012 and the date of original issuance of the Series F Preferred Stock, upon notice given as provided in Section 6(b) below. The redemption price for shares of Series F Preferred Stock shall be \$100,000 per share plus dividends that have been declared but not paid plus accrued and unpaid dividends for the then-current Dividend Period to the redemption date.

(b) Notice of Redemption. Notice of every redemption of shares of Series F Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 15 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series F Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series F Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series F Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series F Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series F Preferred Stock at the time outstanding, the shares of Series F Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series F Preferred Stock in proportion to the number of Series F Preferred Stock held by such holders or by lot or in such other manner as the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation may determine to be fair and equitable. Subject to the provisions of this Section 6, the Board of Directors of the Corporation, the Committee or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series F Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other assets, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue after such redemption date, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights. The holders of the Series F Preferred Stock will have no voting rights and will not be entitled to elect any directors, except as expressly provided by law.

Section 8. Preemption and Conversion. The holders of Series F Preferred Stock shall not have any rights of preemption or rights to convert such Series F Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors of the Corporation, the Committee or any authorized committee of the Board of Directors of the Corporation, without the vote of the holders of the Series F Preferred Stock, may authorize and issue additional shares of Junior Stock, Parity Stock or any class or series of Senior Stock or any other securities ranking senior to the Series F

Preferred Stock as to dividends and the distribution of assets upon any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series F Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series F Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series F Preferred Stock are not subject to the operation of a sinking fund.

Exhibit C

Adjustable Rate Non-Cumulative Preferred Stock, Series G

**CERTIFICATE OF DESIGNATIONS
OF
ADJUSTABLE RATE NON-CUMULATIVE PREFERRED STOCK, SERIES G
OF
BANK OF AMERICA CORPORATION**

Pursuant to Section 151 of the
General Corporation Law of the State of Delaware

Bank of America Corporation, a corporation organized and existing under the General Corporation Law of the State of Delaware (the "*Corporation*"), does hereby certify that:

1. At a meeting duly convened and held on April 26, 2006, the Board of Directors of the Corporation (the "*Board*") duly adopted resolutions (a) authorizing the issuance and sale by the Corporation of one or more series of the Corporation's preferred stock, and (b) appointing a Committee (the "*Committee*") of the Board to act on behalf of the Board in establishing the number of authorized shares, the dividend rate and other powers, designations, preferences and rights of the preferred stock.

2. Thereafter, on February 12, 2007, the Committee duly adopted the following resolution by written consent:

"RESOLVED, that the powers, designations, preferences and relative, participating, optional or other special rights, and the qualifications, limitations or restrictions thereof, of the Corporation's Adjustable Rate Non-Cumulative Preferred Stock, Series G, including those established by the Board and the number of authorized shares and dividend rate established hereby, are authorized and approved as set forth in Exhibit A hereto, which is incorporated herein by reference."

IN WITNESS WHEREOF, this Certificate of Designations is executed on behalf of the Corporation by its duly authorized officer this 15th day of February, 2007.

BANK OF AMERICA CORPORATION

/s/ TERESA M. BRENNER

By:

Name: Teresa M. Brenner

Title: Associate General Counsel

EXHIBIT A
TO
CERTIFICATE OF DESIGNATIONS
OF
ADJUSTABLE RATE NON-CUMULATIVE PREFERRED STOCK, SERIES G
OF
BANK OF AMERICA CORPORATION

Section 1. Designation. The designation of the series of preferred stock shall be “Adjustable Rate Non-Cumulative Preferred Stock, Series G” (the “*Series G Preferred Stock*”). Each share of Series G Preferred Stock shall be identical in all respects to every other share of Series G Preferred Stock. Series G Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares. The number of authorized shares of Series G Preferred Stock shall be 8,501. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series G Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors of the Corporation, the Committee or any other duly authorized committee of the Board of Directors of the Corporation and by the filing of a certificate pursuant to the provisions of the General Corporation Law of the State of Delaware stating that such increase or reduction, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series G Preferred Stock.

Section 3. Definitions. As used herein with respect to Series G Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Calculation Agent*” shall mean The Bank of New York Trust Company, N.A., or such other bank or entity as may be appointed by the Corporation to act as calculation agent for the Series G Preferred Stock.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of “Three-Month LIBOR.”

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series G Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means (a) the Corporation’s 7% Cumulative Redeemable Preferred Stock, Series B, (b) the Corporation’s 6.204% Non-Cumulative Preferred Stock, Series D, (c) the Corporation’s Floating Rate Non-Cumulative Preferred Stock, Series E, (d) the Corporation’s Floating Rate Non-Cumulative Preferred Stock, Series F and (e) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series G Preferred Stock in the payment of dividends or in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series G Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series G Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“*Telerate Page 3750*” means the display page so designated on the Moneyline/Telerate Service (or any other page as may replace that page on that service, or any other service as may be nominated as the information vendor, for the purpose of displaying rates or prices comparable to the London Interbank Offered Rate for U.S. dollar deposits).

“*Three-Month LIBOR*” means, with respect to any Dividend Period, the offered rate (expressed as a percentage per annum) for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Telerate Page 3750 as of 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend Determination Date*”). If such rate does not appear on Telerate Page 3750, Three-Month LIBOR will be determined on the basis of the rates at which deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000 are offered to prime banks in the London interbank market by four major banks in the London interbank market selected by the Corporation, at approximately 11:00 a.m., London time on the second London Banking Day immediately preceding the first day of that Dividend Period. The Calculation Agent will request the principal London office of each of such banks to provide a quotation of its rate. If at least two such quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of such quotations. If fewer than two quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of the rates quoted by three major banks in New York City selected by the Corporation, at approximately 11:00 a.m., New York City time, on the first day of that Dividend Period for loans in U.S. dollars to leading European banks for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000. However, if fewer than three banks selected by the Corporation to provide quotations are not quoting as described above, Three-Month LIBOR for that Dividend Period will be the same as Three-Month LIBOR as determined for the previous Dividend Period, or in the case of the first Dividend Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had Series G Preferred Stock been outstanding. The Calculation Agent’s establishment of Three-Month LIBOR and calculation of the amount of dividends for each Dividend Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series G Preferred Stock upon request and will be final and binding in the absence of manifest error.

Section 4. Dividends.

(a) Rate. Holders of Series G Preferred Stock shall be entitled to receive, if, as and when declared by the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation, but only out of assets legally available therefor, non-cumulative cash dividends on the liquidation preference of \$100,000 per share of Series G Preferred Stock, and no more, payable as follows: (i) if the Series G Preferred Stock is issued prior to March 15, 2012, semi-annually in arrears on each March 15 and September 15 through March 15, 2012; and (ii) from and including the later of March 15, 2012 and the date of issuance, quarterly in arrears on each March 15, June 15, September 15 and December 15; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day, unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day (in either case, without any interest or other payment in respect of such delay) (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from and including the date of issuance of the Series G Preferred Stock or any Dividend Payment Date to but excluding the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series G Preferred Stock will accrue on the liquidation preference of \$100,000 per share for each Dividend Period (1) from the date of issuance to, but excluding, the Dividend Payment Date in March 2012 (if issued prior to that date) at a rate per annum equal to 5.63% and (2) thereafter at a rate per annum equal to the greater of (x) Three-Month LIBOR plus a spread of 0.40% and (y) 4.00%. The record date for payment of dividends on the Series G Preferred Stock shall be the last Business Day of the calendar month immediately preceding the month during which the Dividend Payment Date falls. The amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period.

(b) Non-Cumulative Dividends. Dividends on shares of Series G Preferred Stock shall be non-cumulative. To the extent that any dividends payable on the shares of Series G Preferred Stock on any Dividend Payment Date are not declared and paid, in full or otherwise, on such Dividend Payment Date, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable and the Corporation shall have no obligation to pay, and the holders of Series G Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect

to Series G Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series G Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series G Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case unless full dividends on all outstanding shares of Series G Preferred Stock for the then-current Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series G Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series G Preferred Stock for the then-current Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series G Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series G Preferred Stock and the holders of any Parity Stock. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series G Preferred Stock and the aggregate of the current and accrued dividends due on the Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series G Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation may be declared and paid on any Junior Stock from time to time out of any assets legally available therefor, and the shares of Series G Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series G Preferred Stock shall be entitled, out of assets legally available therefor, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series G Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$100,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series G Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series G Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series G Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences plus any dividends which have been declared but not yet paid of Series G Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series G Preferred Stock and all holders of any Parity Stock, then the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors of the Corporation, may redeem out of funds legally available therefor, in whole or in part, the shares of Series G Preferred Stock at the time outstanding, at any time on or after the later of March 15, 2012 and the date of original issuance of the Series G Preferred Stock, upon notice given as provided in Section 6(b) below. The redemption price for shares of Series G Preferred Stock shall be \$100,000 per share plus dividends that have been declared but not paid plus accrued and unpaid dividends for the then-current Dividend Period to the redemption date.

(b) Notice of Redemption. Notice of every redemption of shares of Series G Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 15 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series G Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series G Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series G Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series G Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series G Preferred Stock at the time outstanding, the shares of Series G Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series G Preferred Stock in proportion to the number of Series G Preferred Stock held by such holders or by lot or in such other manner as the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation may determine to be fair and equitable. Subject to the provisions of this Section 6, the Board of Directors of the Corporation, the Committee or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series G Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other assets, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue after such redemption date, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights. The holders of the Series G Preferred Stock will have no voting rights and will not be entitled to elect any directors, except as expressly provided by law.

Section 8. Preemption and Conversion. The holders of Series G Preferred Stock shall not have any rights of preemption or rights to convert such Series G Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors of the Corporation, the Committee or any authorized committee of the Board of Directors of the Corporation, without the vote of the holders of the Series G Preferred Stock, may authorize and issue additional shares of Junior Stock, Parity Stock or any class or series of Senior Stock or any other securities ranking senior to the

Series G Preferred Stock as to dividends and the distribution of assets upon any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series G Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors of the Corporation or any duly authorized committee of the Board of Directors of the Corporation may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series G Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series G Preferred Stock are not subject to the operation of a sinking fund.

Exhibit D

7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L

**CERTIFICATE OF DESIGNATIONS
OF
7.25% NON-CUMULATIVE PERPETUAL
CONVERTIBLE PREFERRED STOCK, SERIES L
OF
BANK OF AMERICA CORPORATION**

Pursuant to Section 151 of the
General Corporation Law of the State of Delaware

Bank of America Corporation, a corporation organized and existing under the General Corporation Law of the State of Delaware (the "Corporation"), does hereby certify that:

1. At meetings duly convened and held on December 11, 2007 and January 23, 2008, the Board of Directors of the Corporation (the "Board") duly adopted resolutions (a) authorizing the issuance and sale by the Corporation of one or more series of the Corporation's preferred stock, and (b) appointing a Special Committee (the "Committee") of the Board to act on behalf of the Board in establishing the number of authorized shares, the dividend rate and other powers, designations, preferences and rights of the preferred stock.

2. Thereafter, on January 28, 2008, the Committee duly adopted the following resolution by written consent:

"**RESOLVED**, that the powers, designations, preferences and relative, participating, optional or other special rights, and the qualifications, limitations or restrictions thereof, of the Corporation's 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, including those established by the Board and the number of authorized shares and dividend rate established hereby, are authorized and approved as set forth in the Certificate of Designations attached hereto as Exhibit A, which is incorporated herein and made a part of these resolutions by reference."

IN WITNESS WHEREOF, this Certificate of Designations is executed on behalf of the Corporation by its duly authorized officer this 28th day of January, 2008.

BANK OF AMERICA CORPORATION

/s/ TERESA M. BRENNER

By:

Name: Teresa M. Brenner

Title: Associate General Counsel

EXHIBIT A

**CERTIFICATE OF DESIGNATIONS
OF
7.25% NON-CUMULATIVE PERPETUAL
CONVERTIBLE PREFERRED STOCK, SERIES L
OF
BANK OF AMERICA CORPORATION**

Section 1. Designation. The designation of the series of preferred stock shall be “7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L”, \$0.01 par value, with a liquidation preference of \$1,000 per share (the “*Series L Preferred Stock*”). Each share of Series L Preferred Stock shall be identical in all respects to every other share of Series L Preferred Stock. Series L Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares. The number of authorized shares of Series L Preferred Stock shall be 6,900,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series L Preferred Stock then outstanding) by further resolution duly adopted by the Board, the Committee or any other duly authorized committee of the Board and by the filing of a certificate pursuant to the provisions of the General Corporation Law of the State of Delaware stating that such increase or reduction, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series L Preferred Stock.

Section 3. Definitions. As used herein with respect to Series L Preferred Stock:

“*Applicable Conversion Price*” at any given time means, for each share of Series L Preferred Stock, the price equal to \$1,000 divided by the Applicable Conversion Rate in effect at such time.

“*Applicable Conversion Rate*” means the Conversion Rate in effect at any given time.

“*Base Price*” has the meaning set forth in Section 6(d)(i).

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or required by law or regulation to close in New York, New York or in Charlotte, North Carolina.

“*Closing Price*” of the Common Stock on any determination date means the closing sale price or, if no closing sale price is reported, the last reported sale price of the shares of the Common Stock on the New York Stock Exchange on such date. If the Common Stock is not traded on the New York Stock Exchange on any determination date, the Closing Price of the Common Stock on such determination date means the closing sale price as reported in the composite transactions for the principal U.S. national or regional securities exchange on which the Common Stock is so listed or quoted, or, if no closing sale price is reported, the last reported sale price on the principal U.S. national or regional securities exchange on which the Common Stock is so listed or quoted, or if the Common Stock is not so listed or quoted on a U.S. national or regional securities exchange, the last quoted bid price for the Common Stock in the over-the-counter market as reported by Pink Sheets LLC or a similar organization, or, if that bid price is not available, the market price of the Common Stock on that date as determined by a nationally recognized independent investment banking firm retained by the Corporation for this purpose.

For purposes of this Certificate of Designations, all references herein to the “Closing Price” and “last reported sale price” of the Common Stock on the New York Stock Exchange shall be such closing sale price and last reported sale price as reflected on the website of the New York Stock Exchange (<http://www.nyse.com>) and as reported by Bloomberg Professional Service; *provided* that in the event that there is a discrepancy between the closing sale price or last reported sale price as reflected on the website of the New York Stock Exchange and as reported by Bloomberg Professional Service, the closing sale price and last reported sale price on the website of the New York Stock Exchange will govern.

“*Common Stock*” means the common stock, \$0.01 par value, of the Corporation.

“*Conversion Agent*” shall mean Computershare Trust Company, N.A. and Computershare Inc. collectively acting in their capacity as conversion agent for the Series L Preferred Stock, and their respective successors and assigns.

“*Conversion Date*” has the meaning set forth in Section 6(a)(v)(B).

“*Conversion Rate*” means for each share of Series L Preferred Stock, 20 shares of Common Stock, plus cash in lieu of fractional shares, subject to adjustment as set forth herein.

“*Current Market Price*” of the Common Stock on any day, means the average of the VWAP of the Common Stock over each of the ten consecutive Trading Days ending on the earlier of the day in question and the day before the Ex-Date or other specified date with respect to the issuance or distribution requiring such computation, appropriately adjusted to take into account the occurrence during such period of any event described in Section 7(a)(i) through (vi).

“*Depository*” means DTC or its nominee or any successor depository appointed by the Corporation.

“*Dividend Payment Date*” has the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” has the meaning set forth in Section 4(a) hereof.

“*Dividend Threshold Amount*” has the meaning set forth in Section 7(a)(v).

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Exchange Act*” means the Securities Exchange Act of 1934, as amended.

“*Exchange Property*” has the meaning set forth in Section 8(a).

“*Ex-Date*,” when used with respect to any issuance or distribution, means the first date on which the Common Stock or other securities trade without the right to receive the issuance or distribution.

“*Fundamental Change*” has the meaning set forth in Section 6(d)(i).

“*Holder*” means the Person in whose name the shares of Series L Preferred Stock are registered, which may be treated by the Corporation, Transfer Agent, Registrar, paying agent and Conversion Agent as the absolute owner of the shares of Series L Preferred Stock for the purpose of making payment and settling conversions and for all other purposes.

“*Junior Stock*” means the Common Stock and any other class or series of capital stock of the Corporation over which Series L Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Make-Whole Acquisition*” means the occurrence, prior to any Conversion Date, of one of the following:

(a) a “person” or “group” within the meaning of Section 13(d) of the Exchange Act files a Schedule TO or any schedule, form, or report under the Exchange Act disclosing that such person or group has become the direct or indirect ultimate “beneficial owner,” as defined in Rule 13d-3 under the Exchange Act, of common equity of the Corporation representing more than 50% of the voting power of the Common Stock; or

(b) consummation of the Corporation’s consolidation or merger or similar transaction or any sale, lease, or other transfer in one transaction or a series of related transactions of all or substantially all of the Corporation’s and the Corporation’s subsidiaries’ consolidated assets, taken as a whole, to any Person other than one of the Corporation’s subsidiaries, in each case pursuant to which the Common Stock will be converted into cash, securities, or other property, other than pursuant to a transaction in which the persons that “beneficially owned” (as defined in Rule 13d-3 under the Exchange Act) directly or indirectly, voting shares immediately prior to such transaction beneficially own, directly or indirectly, voting shares representing a majority of the total voting power of all outstanding classes of voting shares of the continuing or surviving person immediately after the transaction; *provided, however* that a Make-Whole Acquisition will not be deemed to have occurred if at least 90% of the consideration received by holders of the Common Stock in the transaction or transactions consists of shares of common stock or American Depositary Receipts in respect of common stock that are traded on a U.S. national securities exchange or securities exchange in the European Economic Area or that will be so traded when issued or exchanged in connection with a Make-Whole Acquisition.

“*Make-Whole Acquisition Conversion*” has the meaning set forth in Section 6(c)(i).

“*Make-Whole Acquisition Conversion Period*” has the meaning set forth in Section 6(c)(i).

“*Make-Whole Acquisition Effective Date*” has the meaning set forth in Section 6(c)(i).

“*Make-Whole Acquisition Stock Price*” means the price paid per share of Common Stock in the event of a Make-Whole Acquisition. If the holders of shares of Common Stock receive only cash in the Make-Whole Acquisition, the Make-Whole Acquisition Stock Price will be the cash amount paid per share of Common Stock. Otherwise, the Make-Whole Acquisition Stock Price shall be the average of the Closing Price per share of Common Stock on the ten Trading Days up to, but not including, the Make-Whole Acquisition Effective Date.

“*Make-Whole Shares*” has the meaning set forth in Section 6(c)(i).

“*Nonpayment*” has the meaning set forth in Section 11(b)(i).

“*Notice of Optional Conversion*” has the meaning set forth in Section 6(b)(iii).

“*Optional Conversion Date*” has the meaning set forth in Section 6(b)(iii).

“*Parity Stock*” means (a) the Corporation’s 7% Cumulative Redeemable Preferred Stock, Series B, (b) the Corporation’s 6.204% Non-Cumulative Preferred Stock, Series D, (c) the Corporation’s Floating Rate Non-Cumulative Preferred Stock, Series E, (d) the Corporation’s Floating Rate Non-Cumulative Preferred Stock, Series F (if and when issued and outstanding), (e) the Corporation’s Adjustable Rate Non-Cumulative Preferred Stock, Series G (if and when issued and outstanding), (f) the Corporation’s 6.625% Non-Cumulative Preferred Stock, Series I, (g) the Corporation’s 7.25% Non-Cumulative Preferred Stock, Series J, (h) the Corporation’s Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K (if and when issued and outstanding) and (i) any other class or series of capital stock of the Corporation hereafter authorized that ranks on par with the Series L Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Person*” means a legal person, including any individual, corporation, estate, partnership, joint venture, association, joint-stock company, limited liability company or trust.

“*Preferred Director*” has the meaning set forth in Section 11(b)(i).

“*Purchased Shares*” has the meaning set forth in Section 7(a)(vi).

“*Reference Price*” means the price paid per share of Common Stock in the event of a Fundamental Change. If the holders of shares of Common Stock receive only cash in the Fundamental Change, the Reference Price shall be the cash amount paid per share. Otherwise, the Reference Price will be the average of the Closing Price per share of Common Stock on the ten Trading Days up to, but not including, the effective date of the Fundamental Change.

“*Reorganization Event*” has the meaning set forth in Section 8.

“*Registrar*” means Computershare Trust Company, N.A. or its nominee or any successor or registrar appointed by the Corporation.

“*Senior Stock*” means any class or series of capital stock of the Corporation authorized which has preference or priority over the Series L Preferred Stock as to the payment of dividends or in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Series L Preferred Stock*” has the meaning set forth in Section 1.

“*spin-off*” has the meaning set forth in Section 7(a)(iv).

“*Trading Day*” for purposes of determining the VWAP or Closing Price means a day on which the shares of Common Stock:

- (a) are not suspended from trading on any national or regional securities exchange or association or over-the-counter market at the close of business; and
- (b) have traded at least once on the national or regional securities exchange or association or over-the-counter market that is the primary market for the trading of the Common Stock.

“*Transfer Agent*” means Computershare Trust Company, N.A. acting as Transfer Agent, Registrar, and Conversion Agent for the Series L Preferred Stock, and its successors and assigns.

“Voting Parity Securities” has the meaning set forth in Section 11(b)(i).

“VWAP” means, per share of the Common Stock on any Trading Day, the per share volume-weighted average price as displayed under the heading “Bloomberg VWAP” on Bloomberg page “BAC UN <equity> AQR” (or its equivalent successor if such page is not available) in respect of the period from the open of trading on the relevant Trading Day until the close of trading on the relevant Trading Day (or if such volume-weighted average price is unavailable, the market price of one share of the Common Stock on such trading days determined, using a volume-weighted average method, by a nationally recognized investment banking firm (unaffiliated with the Corporation) retained for this purpose by the Corporation).

Section 4. Dividends.

(a) Rate. Holders of Series L Preferred Stock shall be entitled to receive, when, as and if declared by the Board or any duly authorized committee of the Board, but only out of assets legally available under Delaware law for payment, non-cumulative cash dividends on the liquidation preference of \$1,000 per share of Series L Preferred Stock, and no more, payable quarterly in arrears on each January 30, April 30, July 30 and October 30 of each year, beginning on April 30, 2008; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day, unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day (in either case, without any interest or other payment in respect of such delay) (each such day on which dividends are payable a “Dividend Payment Date”). The period from and including the date of issuance of the Series L Preferred Stock or any Dividend Payment Date to but excluding the next Dividend Payment Date is a “Dividend Period”. Dividends on each share of Series L Preferred Stock will accrue on the liquidation preference of \$1,000 per share at a rate per annum equal to 7.25%. The record date for payment of dividends on the Series L Preferred Stock shall be the first day of the calendar month in which the relevant Dividend Payment Date falls. The amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. Dollar amounts resulting from that calculation will be rounded to the nearest cent, with one-half cent being rounded upward. Dividends on the Series L Preferred Stock will cease to accrue after conversion, as described below. If the Corporation issues additional shares of the Series L Preferred Stock, dividends on those additional shares will accrue from the preceding scheduled Dividend Payment Date at the dividend rate.

(b) Non-Cumulative Dividends. Dividends on shares of Series L Preferred Stock shall be non-cumulative. Accordingly, if for any reason the Board or a duly authorized committee of the Board does not declare a dividend on the Series L Preferred Stock for a Dividend Period prior to the related Dividend Payment Date, that dividend will not accrue, and the Corporation will have no obligation to pay a dividend for that Dividend Period on the Dividend Payment Date or at any time in the future, whether or not the Board or a duly authorized committee of the Board declares a dividend on the Series L Preferred Stock or any other series of the Corporation’s preferred stock or Common Stock for any future Dividend Period.

(c) Dividend Stopper. So long as any share of Series L Preferred Stock remains outstanding, (i) no dividend shall be declared and paid or set aside for payment and no distribution shall be declared and made or set aside for payment on any Junior Stock (other than a dividend payable solely in shares of Junior Stock), (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock will be repurchased, redeemed, or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *pro rata* portion, of the Series L Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, during a Dividend Period, unless, in each case, the full dividends for the then-current Dividend Period on all outstanding shares of Series L Preferred Stock have been declared and paid or declared and a sum sufficient for the payment of those dividends has been set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation’s Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreements) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series L Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series L Preferred Stock for the then-current Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series L Preferred Stock and on any Parity Stock but does not make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series L Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series L Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. The Corporation is not obligated to and will not pay Holders of the Series L

Preferred Stock any interest or sum of money in lieu of interest on any dividend not paid on a Dividend Payment Date. The Corporation is not obligated to and will not pay Holders of the Series L Preferred Stock any dividend in excess of the dividends on the Series L Preferred Stock that are payable as described herein. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board or any duly authorized committee of the Board may be declared and paid on any Junior Stock from time to time out of any assets legally available therefor, and the shares of Series L Preferred Stock shall not be entitled to participate in any such dividend

Section 5. Right to Convert. Each Holder shall have the right, at such Holder's option, at any time, to convert all or any portion of such Holder's Series L Preferred Stock into shares of Common Stock at the Applicable Conversion Rate (subject to the conversion procedures set forth in Section 6 herein) plus cash in lieu of fractional shares.

Section 6. Conversion.

(a) Conversion Procedures.

(i) Effective immediately prior to the close of business on the Optional Conversion Date or any applicable Conversion Date, dividends shall no longer be declared on any converted shares of Series L Preferred Stock and such shares of Series L Preferred Stock shall cease to be outstanding, in each case, subject to the right of Holders to receive any declared and unpaid dividends on such shares and any other payments to which they are otherwise entitled pursuant to Section 5, Section 6 (b), Section 6(c), Section 6(d), Section 8 or Section 12 hereof, as applicable.

(ii) Prior to the close of business on the Optional Conversion Date or any applicable Conversion Date, shares of Common Stock issuable upon conversion of, or other securities issuable upon conversion of, any shares of Series L Preferred Stock shall not be deemed outstanding for any purpose, and Holders shall have no rights with respect to the Common Stock or other securities issuable upon conversion (including voting rights, rights to respond to tender offers for the Common Stock and rights to receive any dividends or other distributions on the Common Stock or other securities issuable upon conversion) by virtue of holding shares of Series L Preferred Stock.

(iii) Shares of Series L Preferred Stock duly converted in accordance with the terms hereof, or otherwise reacquired by the Corporation, will resume the status of authorized and unissued preferred stock, undesignated as to series and available for future issuance. The Corporation may from time-to-time take such appropriate action as may be necessary to reduce the authorized number of shares of Series L Preferred Stock.

(iv) The Person or Persons entitled to receive the Common Stock and/or securities issuable upon conversion of Series L Preferred Stock shall be treated for all purposes as the record holder(s) of such shares of Common Stock and/or securities as of the close of business on the Optional Conversion Date or any applicable Conversion Date. In the event that a Holder shall not by written notice designate the name in which shares of Common Stock and/or cash, securities or other property (including payments of cash in lieu of fractional shares) to be issued or paid upon conversion of shares of Series L Preferred Stock should be registered or paid or the manner in which such shares should be delivered, the Corporation shall be entitled to register and deliver such shares, and make such payment, in the name of the Holder and in the manner shown on the records of the Corporation or, in the case of global certificates, through book-entry transfer through the Depository.

(v) Conversion into shares of Common Stock will occur on the Optional Conversion Date or any applicable Conversion Date as follows:

(A) On the Optional Conversion Date, certificates representing shares of Common Stock shall be issued and delivered to Holders or their designee upon presentation and surrender of the certificate evidencing the Series L Preferred Stock to the Conversion Agent if shares of the Series L Preferred Stock are held in certificated form, and, if required, the furnishing of appropriate endorsements and transfer documents and the payment of all transfer and similar taxes. If a Holder's interest is a beneficial interest in a global certificate representing Series L Preferred Stock, a book-entry transfer through the Depository will be made by the Conversion Agent upon compliance with the Depository's procedures for converting a beneficial interest in a global security.

(B) On the date of any conversion at the option of Holders pursuant to Section 5, Section 6(b), Section 6(c) or Section 6(d), if a Holder's interest is in certificated form, a Holder must do each of the following in order to convert:

(1) complete and manually sign the conversion notice provided by the Conversion Agent, or a facsimile of the conversion notice, and deliver this irrevocable notice to the Conversion Agent;

(2) surrender the shares of Series L Preferred Stock to the Conversion Agent;

(3) if required, furnish appropriate endorsements and transfer documents;

(4) if required, pay all transfer or similar taxes; and

(5) if required, pay funds equal to any declared and unpaid dividend payable on the next Dividend Payment Date to which such Holder is entitled.

If a Holder's interest is a beneficial interest in a global certificate representing Series L Preferred Stock, in order to convert a Holder must comply with paragraphs (3) through (5) listed above and comply with the Depository's procedures for converting a beneficial interest in a global security.

The date on which a Holder complies with the procedures in this clause (v) is the "*Conversion Date*."

(C) The Conversion Agent shall, on a Holder's behalf, convert the Series L Preferred Stock into shares of Common Stock, in accordance with the terms of the notice delivered by such Holder described in clause (B) above. If the Conversion Date is prior to the record date relating to any declared dividend for the Dividend Period in which a Holder elects to convert, the Holder will not receive any declared dividends for that Dividend Period. If the Conversion Date is after the record date relating to any declared dividend and prior to the Dividend Payment Date, the Holder will receive that dividend on the relevant Dividend Payment Date if the Holder was the holder of record on the record date for that dividend. However, if the Conversion Date is after the record date and prior to the Dividend Payment Date, whether or not the Holder was the holder of record on the record date, the Holder must pay to the Conversion Agent when it converts its shares of Series L Preferred Stock an amount in cash equal to the full dividend actually paid on the Dividend Payment Date for the then-current Dividend Period on the shares of Series L Preferred Stock being converted, unless the Holder's shares of Series L Preferred Stock are being converted as a result of a conversion pursuant to Section 6(b), Section 6(c) or Section 6(d).

(b) Conversion at the Corporation's Option.

(i) On or after January 30, 2013, the Corporation may, at its option, at any time or from time to time, cause some or all of the Series L Preferred Stock to be converted into shares of Common Stock at the then-Applicable Conversion Rate if, for 20 Trading Days during any period of 30 consecutive Trading Days the Closing Price of the Common Stock exceeds 130% of the then-Applicable Conversion Price of the Series L Preferred Stock. If the Corporation exercises its optional conversion right on January 30, 2013, it will still pay any dividend payable (in accordance with Section 4) on January 30, 2013 to the applicable Holders of record. The Corporation will provide notice of its optional conversion within five Trading Days of the end of the 30 consecutive Trading Day period.

(ii) If the Corporation elects to cause less than all of the Series L Preferred Stock to be converted under clause (i) above, the Conversion Agent will select the Series L Preferred Stock to be converted by lot, or on a *pro rata* basis or by another method the Conversion Agent considers fair and appropriate, including any method required by DTC or any successor depository (so long as such method is not prohibited by the rules of any stock exchange or quotation association on which the Series L Preferred Stock is then traded or quoted). If the Conversion Agent selects a portion of a Holder's Series L Preferred Stock for partial conversion at the Corporation's option and such Holder converts a portion of its shares of Series L Preferred Stock, the converted portion will be deemed to be from the portion selected for conversion at the Corporation's option under this Section 6(b).

(iii) If the Corporation exercises the optional conversion right described in this Section 6(b), the Corporation shall provide notice of such conversion by first class mail to each Holder of record for the shares of Series L Preferred Stock to be converted (such notice a "*Notice of Optional Conversion*") or issue a press release for publication and make this information available on its website. The Conversion Date shall be a date selected by the Corporation (the "*Optional Conversion Date*"), and the Notice of Optional Conversion must be mailed, or the Corporation must issue the press release, not more than 20 days prior to the Optional Conversion Date. In addition to any information required by applicable law or regulation, the Notice of Optional Conversion or press release shall state, as appropriate:

(A) the Optional Conversion Date;

(B) the aggregate number of shares of Series L Preferred Stock to be converted and, if less than all of the shares of Series L Preferred Stock are to be converted, the percentage of shares of Series L Preferred Stock to be converted; and

(C) the number of shares of Common Stock to be issued upon conversion of each share of Series L Preferred Stock.

(c) Conversion Upon Make-Whole Acquisition.

(i) In the event of a Make-Whole Acquisition, each Holder shall have the option to convert its shares of Series L Preferred Stock (a "*Make-Whole Acquisition Conversion*") during the period (the "*Make-Whole Acquisition Conversion Period*") beginning on the effective date of the Make-Whole Acquisition (the "*Make-Whole Acquisition Effective Date*") and ending on the date that is 30 days after the Make-Whole Acquisition Effective Date and receive an additional number of shares of Common Stock (the "*Make-Whole Shares*") as set forth in clause (ii) below.

(ii) The number of Make-Whole Shares per share of Series L Preferred Stock shall be determined by reference to the table below for the applicable Make-Whole Acquisition Effective Date and the applicable Make-Whole Acquisition Stock Price:

Effective Date	\$40.00	\$41.00	\$42.00	\$44.00	\$47.00	\$50.00	\$60.00	\$80.00	\$110.00	\$150.00	\$200.00
1/24/2008	5.000	4.7993	4.6190	4.2023	3.6851	3.2540	2.1450	1.0450	0.5164	0.2765	0.1468
1/30/2009	5.000	4.7512	4.4643	4.1386	3.5702	3.1760	2.0317	0.9563	0.4682	0.2480	0.1285
1/30/2010	5.000	4.6439	4.2929	3.9886	3.3830	2.9300	1.7617	0.6462	0.2287	0.1033	0.0390
1/30/2011	5.000	4.6049	4.2429	3.9250	3.3170	2.8040	1.5650	0.5300	0.1964	0.1067	0.0500
1/30/2012	5.000	4.5780	4.2405	3.8386	3.2596	2.5840	1.2667	0.2313	0.0755	0.0429	0.0206
1/30/2013	5.000	4.5366	4.2214	3.7932	3.1660	2.5260	1.0217	0.0000	0.0000	0.0000	0.0000
Thereafter	5.000	4.5366	4.2214	3.7932	3.1660	2.5260	1.0217	0.0000	0.0000	0.0000	0.0000

(A) The exact Make-Whole Acquisition Stock Prices and Make-Whole Acquisition Effective Dates may not be set forth in the table, in which case:

(1) if the Make-Whole Acquisition Stock Price is between two Make-Whole Acquisition Stock Price amounts in the table or the Make-Whole Acquisition Effective Date is between two dates in the table, the number of Make-Whole Shares will be determined by straight-line interpolation between the number of Make-Whole Shares set forth for the higher and lower Make-Whole Acquisition Stock Price amounts and the two Make-Whole Acquisition Effective Dates, as applicable, based on a 365-day year;

(2) if the Make-Whole Acquisition Stock Price is in excess of \$200.00 per share (subject to adjustment pursuant to Section 7 hereof), no Make-Whole Shares will be issued upon conversion of the Series L Preferred Stock; and

(3) if the Make-Whole Acquisition Stock Price is less than \$40.00 per share (subject to adjustment pursuant to Section 7 hereof), no Make-Whole Shares will be issued upon conversion of the Series L Preferred Stock.

(B) The Make-Whole Acquisition Stock Prices set forth in the table above are subject to adjustment pursuant to Section 7 hereof and shall be adjusted as of any date the Conversion Rate is adjusted. The adjusted Make-Whole Acquisition Stock Prices will equal the Make-Whole Acquisition Stock Prices applicable immediately prior to such adjustment multiplied by a fraction, the numerator of which is the Conversion Rate immediately prior to the adjustment giving rise to the Make-Whole Acquisition Stock Prices adjustment and the denominator of which is the Conversion Rate as so adjusted. Each of the number of Make-Whole Shares in the table shall also be subject to adjustment in the same manner as the Conversion Rate pursuant to Section 7.

(iii) On or before the twentieth day prior to the date the Corporation anticipates being the effective date for the Make-Whole Acquisition, a written notice shall be sent by or on behalf of the Corporation, by first-class mail, postage prepaid, to the Holders as they appear in the records of the Corporation. Such notice shall contain:

(A) the anticipated effective date of the Make-Whole Acquisition; and

(B) the date, which shall be 30 days after the anticipated Make-Whole Acquisition Effective Date, by which a Make-Whole Acquisition Conversion must be exercised.

(iv) On the Make-Whole Acquisition Effective Date, another written notice shall be sent by or on behalf of the Corporation, by first-class mail, postage prepaid, to the Holders as they appear in the records of the Corporation. Such notice shall contain:

(A) the date that shall be 30 days after the Make-Whole Acquisition Effective Date;

(B) the number of Make-Whole Shares;

(C) the amount of cash, securities and other consideration receivable by a Holder of Series L Preferred Stock upon conversion; and

(D) the instructions a Holder must follow to exercise its conversion option in connection with such Make-Whole Acquisition.

(v) To exercise a Make-Whole Acquisition Conversion option, a Holder must, no later than 5:00 p.m., New York City time on or before the date by which the Make-Whole Acquisition Conversion option must be exercised as specified in the notice delivered under clause (iv) above, comply with the procedures set forth in Section 6(a)(v)(B).

(vi) If a Holder does not elect to exercise the Make-Whole Acquisition Conversion option pursuant to this Section 6(c), the shares of Series L Preferred Stock or successor security held by it will remain outstanding, and the Holder will not be eligible to receive Make-Whole Shares.

(vii) Upon a Make-Whole Acquisition Conversion, the Conversion Agent shall, except as otherwise provided in the instructions provided by the Holder thereof in the written notice provided to the Corporation or its successor as set forth in Section 6(a)(iv) above, deliver to the Holder such cash, securities or other property as are issuable with respect to Make-Whole Shares in the Make-Whole Acquisition.

(viii) In the event that a Make-Whole Acquisition Conversion is effected with respect to shares of Series L Preferred Stock or a successor security representing less than all the shares of Series L Preferred Stock or a successor security held by a Holder, upon such Make-Whole Acquisition Conversion the Corporation or its successor shall execute and the Conversion Agent shall, unless otherwise instructed in writing, countersign and deliver to the Holder thereof, at the expense of the Corporation or its successors, a certificate evidencing the shares of Series L Preferred Stock or such successor security held by the Holder as to which a Make-Whole Acquisition Conversion was not effected.

(d) Conversion Upon Fundamental Change.

(i) In lieu of receiving the Make-Whole Shares, if the Reference Price in connection with a Make-Whole Acquisition is less than the Applicable Conversion Price (a "*Fundamental Change*"), a Holder may elect to convert each share of Series L Preferred Stock during the period beginning on the effective date of the Fundamental Change and ending on the date that is 30 days after the effective date of such Fundamental Change at an adjusted conversion price equal to the greater of (1) the Reference Price and (2) \$19.95, subject to adjustment as described in clause (ii) below (the "*Base Price*"). If the Reference Price is less than the Base Price, Holders will receive a maximum of 50.1253 shares of Common Stock per share of Series L Preferred Stock converted, subject to adjustment as described in clause (ii) below.

(ii) The Base Price shall be adjusted as of any date the Conversion Rate of the Series L Preferred Stock is adjusted pursuant to Section 7. The adjusted Base Price shall equal the Base Price applicable immediately prior to such adjustment multiplied by a fraction, the numerator of which is the Conversion Rate immediately prior to the adjustment giving rise to the Conversion Rate adjustment and the denominator of which is the Conversion Rate as so adjusted.

(iii) In lieu of issuing Common Stock upon conversion in the event of a Fundamental Change, the Corporation may at its option, and if it obtains Federal Reserve Board approval, pay an amount in cash (computed to the nearest cent) equal to the Reference Price for each share of Common Stock otherwise issuable upon conversion.

(iv) On or before the twentieth day prior to the date the Corporation anticipates being the effective date for the Fundamental Change, a written notice shall be sent by or on behalf of the Corporation, by first-class mail, postage prepaid, to the Holders as they appear in the records of the Corporation. Such notice shall contain:

(A) the anticipated effective date of the Fundamental Change; and

(B) the date, which shall be 30 days after the anticipated effective date of a Fundamental Change, by which a Fundamental Change conversion must be exercised.

(v) On the effective date of a Fundamental Change, another written notice shall be sent by or on behalf of the Corporation, by first-class mail, postage prepaid, to the Holders as they appear in the records of the Corporation. Such notice shall contain:

(A) the date that shall be 30 days after the effective date of the Fundamental Change;

(B) the adjusted conversion price following the Fundamental Change;

(C) the amount of cash, securities and other consideration received by a Holder of Series L Preferred Stock upon conversion; and

(D) the instructions a Holder must follow to exercise its conversion option in connection with such Fundamental Change.

(vi) To exercise its conversion option upon a Fundamental Change, a Holder must, no later than 5:00 p.m., New York City time on or before the date by which the conversion option upon the Fundamental Change must be exercised as specified in the notice delivered under clause (v) above, comply with the procedures set forth in Section 6(a)(v)(B) and indicate that it is exercising the Fundamental Change conversion option.

(vii) If a Holder does not elect to exercise its conversion option upon a Fundamental Change pursuant to this Section 6(d), the Holder will not be eligible to convert such Holder's shares at the Base Price and such Holder's shares of Series L Preferred Stock or successor security held by it will remain outstanding.

(viii) Upon a conversion upon a Fundamental Change, the Conversion Agent shall, except as otherwise provided in the instructions provided by the Holder thereof in the written notice provided to the Corporation or its successor as set forth in Section 6(a)(iv) above, deliver to the Holder such cash, securities or other property as are issuable with respect to the adjusted conversion price following the Fundamental Change.

(ix) In the event that a conversion upon a Fundamental Change is effected with respect to shares of Series L Preferred Stock or a successor security representing less than all the shares of Series L Preferred Stock or a successor security held by a Holder, upon such conversion the Corporation or its successor shall execute and the Conversion Agent shall, unless otherwise instructed in writing, countersign and deliver to the Holder thereof, at the expense of the Corporation, a certificate evidencing the shares of Series L Preferred Stock or such successor security held by the Holder as to which a conversion upon a Fundamental Change was not effected.

Section 7. Anti-Dilution Adjustments.

(a) The Conversion Rate shall be subject to the following adjustments.

(i) **Stock Dividend Distributions.** If the Corporation pays dividends or other distributions on the Common Stock in shares of Common Stock, then the Conversion Rate in effect immediately following the record date for such dividend or distribution will be multiplied by the following fraction:

$$\frac{OS_1}{OS_0}$$

Where,

OS_0 = the number of shares of Common Stock outstanding immediately prior to the Ex-Date for such dividend or distribution.

OS_1 = the sum of the number of shares of Common Stock outstanding immediately prior to the Ex-Date for such dividend or distribution plus the total number of shares of Common Stock constituting such dividend.

Notwithstanding the foregoing, no adjustment will be made for the issuance of the Common Stock as a dividend or distribution to all holders of Common Stock that is made in lieu of quarterly dividends or distributions to such holders, to the extent such dividend or distribution does not exceed the dividend threshold amount defined in clause (v) below. For purposes of this paragraph, the amount of any dividend or distribution will equal the number of shares being issued multiplied by the average VWAP of the Common Stock over each of the five consecutive Trading Days prior to the record date for such distribution.

(ii) **Subdivisions, Splits, and Combination of the Common Stock** If the Corporation subdivides, splits, or combines the shares of Common Stock, then the Conversion Rate in effect immediately following the effective date of such share subdivision, split, or combination will be multiplied by the following fraction:

$$\frac{OS_i}{OS_o}$$

Where,

OS_o = the number of shares of Common Stock outstanding immediately prior to the effective date of such share subdivision, split, or combination.

OS_i = the number of shares of Common Stock outstanding immediately after the opening of business on the effective date of such share subdivision, split, or combination.

(iii) **Issuance of Stock Purchase Rights.** If the Corporation issues to all holders of the shares of Common Stock rights or warrants (other than rights or warrants issued pursuant to a dividend reinvestment plan or share purchase plan or other similar plans) entitling them, for a period of up to 60 days from the date of issuance of such rights or warrants, to subscribe for or purchase the shares of Common Stock (or securities convertible into shares of Common Stock) at less than (or having a conversion price per share less than) the Current Market Price on the date fixed for the determination of stockholders entitled to receive such rights or warrants, then the Conversion Rate in effect immediately following the close of business on the record date for such distribution will be multiplied by the following fraction:

$$\frac{OS_o + X}{OS_o + Y}$$

Where,

OS_o = the number of shares of Common Stock outstanding at the close of business on the record date for such distribution.

X = the total number of shares of Common Stock issuable pursuant to such rights or warrants (or upon conversion of such securities).

Y = the number of shares of Common Stock equal to the aggregate price payable to exercise such rights or warrants (or the conversion price for such securities) divided by the Current Market Price.

To the extent that such rights or warrants are not exercised prior to their expiration or shares of Common Stock are otherwise not delivered pursuant to such rights or warrants upon the exercise of such rights or warrants, the Conversion Rate shall be readjusted to such Conversion Rate that would then be in effect had the adjustment made upon the issuance of such rights or warrants been made on the basis of the delivery of only the number of shares of Common Stock actually delivered. In determining the aggregate offering price payable for such shares of Common Stock, the Conversion Agent will take into account any consideration received for such rights or warrants and the value of such consideration (if other than cash, to be determined by the Board).

(iv) **Debt or Asset Distributions.** If the Corporation distributes to all holders of shares of Common Stock evidences of indebtedness, shares of capital stock (other than Common Stock), securities, or other assets (excluding any dividend or distribution referred to in clauses (i) or (ii) above, any rights or warrants referred to in clause (iii) above, any

dividend or distribution paid exclusively in cash, any consideration payable in connection with a tender or exchange offer made by the Corporation or any of its subsidiaries, and any dividend of shares of capital stock of any class or series, or similar equity interests, of or relating to a subsidiary or other business unit in the case of certain spin-off transactions as described below), then the Conversion Rate in effect immediately following the close of business on the record date for such distribution will be multiplied by the following fraction:

$$\frac{SP_0}{SP_0 - FMV}$$

Where,

SP_0 = the Current Market Price per share of Common Stock on the Ex-Date.

FMV = the fair market value of the portion of the distribution applicable to one share of Common Stock on the date immediately preceding the Ex-Date as determined by the Board.

In a spin-off, where the Corporation makes a distribution to all holders of shares of Common Stock consisting of capital stock of any class or series, or similar equity interests of, or relating to, a subsidiary or other business unit, the Conversion Rate will be adjusted on the fifteenth Trading Day after the effective date of the distribution by multiplying such Conversion Rate in effect immediately prior to such fifteenth Trading Day by the following fraction:

$$\frac{MP_0 + MP_s}{MP_0}$$

Where,

MP_0 = the average of the VWAP of the Common Stock over each of the first ten Trading Days commencing on and including the fifth Trading Day following the effective date of such distribution.

MP_s = the average of the VWAP of the capital stock or equity interests representing the portion of the distribution applicable to one share of Common Stock over each of the first ten Trading Days commencing on and including the fifth Trading Day following the effective date of such distribution, or, if not traded on a national or regional securities exchange or over-the-counter market, the fair market value of the capital stock or equity interests representing the portion of the distribution applicable to one share of Common Stock on such date as determined by the Board.

(v) **Cash Distributions.** If the Corporation makes a distribution consisting exclusively of cash to all holders of the Common Stock, excluding (a) any cash dividend on the Common Stock to the extent that the aggregate cash dividend per share of the Common Stock does not exceed \$0.64 in any fiscal quarter (the “*Dividend Threshold Amount*”), (b) any cash that is distributed in a Reorganization Event or as part of a spin-off referred to in clause (iv) above, (c) any dividend or distribution, in connection with the Corporation’s liquidation, dissolution, or winding up, and (d) any consideration payable in connection with a tender or exchange offer made by the Corporation or any of its subsidiaries, then in each event, the Conversion Rate in effect immediately following the record date for such distribution will be multiplied by the following fraction:

$$\frac{SP_0}{SP_0 - DIV}$$

Where,

SP₀ = the VWAP per share of Common Stock on the Trading Day immediately preceding the Ex-Date.

DIV = the cash amount per share of Common Stock of the dividend or distribution, as determined pursuant to the following paragraph.

If an adjustment is required to be made as set forth in this clause as a result of a distribution (1) that is a regularly scheduled quarterly dividend, such adjustment would be based on the amount by which such dividend exceeds the Dividend Threshold Amount or (2) that is not a regularly scheduled quarterly dividend, such adjustment would be based on the full amount of such distribution.

The Dividend Threshold Amount is subject to adjustment on an inversely proportional basis whenever the Conversion Rate is adjusted; *provided* that no adjustment will be made to the Dividend Threshold Amount for any adjustment made to the Conversion Rate pursuant to this clause (v).

(vi) **Self-Tender Offers and Exchange Offers** If the Corporation or any of its subsidiaries successfully completes a tender or exchange offer for the Common Stock where the cash and the value of any other consideration included in the payment per share of the Common Stock exceeds the VWAP per share of the Common Stock on the Trading Day immediately succeeding the expiration of the tender or exchange offer, then the Conversion Rate in effect at the close of business on such immediately succeeding Trading Day will be multiplied by the following fraction:

$$\frac{AC + (SP_0 \times OS_1)}{OS_0 \times SP_0}$$

Where,

SP₀ = the VWAP per share of Common Stock on the Trading Day immediately succeeding the expiration of the tender or exchange offer.

OS₀ = the number of shares of Common Stock outstanding immediately prior to the expiration of the tender or exchange offer, including any shares validly tendered and not withdrawn (the “*Purchased Shares*”).

OS₁ = the number of shares of Common Stock outstanding immediately after the expiration of the tender or exchange offer, less any Purchased Shares.

AC = the aggregate cash and fair market value of the other consideration payable in the tender or exchange offer, as determined by the Board.

In the event that the Corporation, or one of its subsidiaries, is obligated to purchase shares of Common Stock pursuant to any such tender offer or exchange offer, but the Corporation, or such subsidiary, is permanently prevented by applicable law from effecting any such purchases, or all such purchases are rescinded, then the Conversion Rate shall be readjusted to be such Conversion Rate that would then be in effect if such tender offer or exchange offer had not been made.

(vii) **Rights Plans.** To the extent that the Corporation has a rights plan in effect with respect to the Common Stock on any Conversion Date, upon conversion of any shares of the Series L Preferred Stock, Holders will receive, in addition to the shares of Common Stock, the rights under the rights plan, unless, prior to such Conversion Date, the rights have separated from the shares of Common Stock, in which case the Conversion Rate will be adjusted at the time of separation as if the Corporation had made a distribution to all holders of the Common Stock as described in clause (iv) above, subject to readjustment in the event of the expiration, termination, or redemption of such rights.

(b) The Corporation may make such increases in the Conversion Rate, in addition to any other increases required by this Section 7, if the Corporation deems it advisable in order to avoid or diminish any income tax to holders of the Common Stock resulting from any dividend or distribution of shares of Common Stock (or issuance of rights or warrants to acquire shares of Common Stock) or from any event treated as such for income tax purposes or for any other reason.

(c)(i) All adjustments to the Conversion Rate shall be calculated to the nearest 1/10,000th of a share of Common Stock. No adjustment in the Conversion Rate will be made unless such adjustment would require an increase or decrease of at least one percent therein; *provided*, that any adjustments which by reason of this subparagraph are not required to be made shall be carried forward and taken into account in any subsequent adjustment; *provided further* that on the Optional Conversion Date, the Make-Whole Acquisition Effective Date or the effective date of a Fundamental Change, adjustments to the Conversion Rate will be made with respect to any such adjustment carried forward and which has not been taken into account before such date.

(ii) No adjustment to the Conversion Rate shall be made if Holders may participate in the transaction that would otherwise give rise to an adjustment, as a result of holding the Series L Preferred Stock, without having to convert the Series L Preferred Stock, as if they held the full number of shares of Common Stock into which their shares of the Series L Preferred Stock may then be converted.

(iii) The Applicable Conversion Rate will not be adjusted:

(A) upon the issuance of any shares of the Common Stock pursuant to any present or future plan providing for the reinvestment of dividends or interest payable on the Corporation's securities and the investment of additional optional amounts in shares of Common Stock under any plan;

(B) upon the issuance of any shares of the Common Stock or rights or warrants to purchase those shares pursuant to any present or future employee, director, or consultant benefit plan or program of or assumed by the Corporation or any of its subsidiaries;

(C) upon the issuance of any shares of the Common Stock pursuant to any option, warrant, right or exercisable, exchangeable or convertible security outstanding as of the date the shares of the Series L Preferred Stock were first issued;

(D) for a change in the par value or no par value of the Common Stock; or

(E) for accrued and unpaid dividends on the Series L Preferred Stock.

(d) Whenever the Conversion Rate is to be adjusted in accordance with Section 7(a) or Section 7(b), the Corporation shall: (i) compute the Conversion Rate in accordance with Section 7(a) or Section 7(b), taking into account the one percent threshold set forth in Section 7(c) hereof, and prepare and transmit to the Transfer Agent an officer's certificate setting forth the Conversion Rate, the method of calculation thereof in reasonable detail, and the facts requiring such adjustment and upon which such adjustment is based; (ii) as soon as practicable following the occurrence of an event that requires an adjustment to the Conversion Rate pursuant to Section 7(a) or Section 7(b), taking into account the one percent threshold set forth in Section 7(c) hereof (or if the Corporation is not aware of such occurrence, as soon as practicable after becoming so aware), provide, or cause to be provided, a written notice to the Holders of the occurrence of such event; and (iii) as soon as practicable following the determination of the revised Conversion Rate in accordance with Section 7(a) or Section 7(b) hereof, provide, or cause to be provided, a written notice to the Holders setting forth in reasonable detail the method by which the adjustment to the Conversion Rate was determined and setting forth the revised Conversion Rate.

Section 8. Reorganization Events.

(a) In the event of:

- (i) the Corporation's consolidation or merger with or into another Person, in each case pursuant to which the Common Stock will be converted into cash, securities, or other property of the Corporation or another Person;
- (ii) any sale, transfer, lease, or conveyance to another Person of all or substantially all of the Corporation's property and assets, in each case pursuant to which the Common Stock will be converted into cash, securities, or other property; or
- (iii) any statutory exchange of the Corporation's securities with another Person (other than in connection with a merger or acquisition);

(any such event specified in this Section 8(a), a "*Reorganization Event*"); each share of Series L Preferred Stock outstanding immediately prior to such Reorganization Event will, without the consent of Holders, become convertible into the kind of securities, cash, and other property receivable in such Reorganization Event by a holder of the shares of Common Stock that was not the counterparty to the Reorganization Event or an affiliate of such other party (such securities, cash, and other property, the "*Exchange Property*").

(b) In the event that holders of the shares of the Common Stock have the opportunity to elect the form of consideration to be received in such transaction, the consideration that the Holders are entitled to receive will be deemed to be the types and amounts of consideration received by the majority of the holders of the shares of the Common Stock that affirmatively make an election (or of all such holders if none make an election). On each Conversion Date following a Reorganization Event, the Conversion Rate then in effect will be applied to the value on such Conversion Date of the securities, cash, or other property received per share of Common Stock, determined as set forth above. The amount of Exchange Property receivable upon conversion of any Series L Preferred Stock in accordance with Section 5, Section 6(b), Section 6(c) or Section 6(d) hereof shall be determined based upon the then Applicable Conversion Rate.

(c) The above provisions of this Section 8 shall similarly apply to successive Reorganization Events and the provisions of Section 7 shall apply to any shares of capital stock of the Corporation (or any successor) received by the holders of the Common Stock in any such Reorganization Event.

(d) The Corporation (or any successor) shall, within 20 days of the occurrence of any Reorganization Event, provide written notice to the Holders of such occurrence of such event and of the kind and amount of the cash, securities or other property that constitutes the Exchange Property. Failure to deliver such notice shall not affect the operation of this Section 8.

Section 9. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series L Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders before any distribution of the assets of the Corporation may be made to the Holders of any Junior Stock to receive in full a liquidating distribution in the amount of the liquidation preference of \$1,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. After payment of this liquidating distribution, the holders of Series L Preferred Stock will not be entitled to any further participation in any distribution of the Corporation's assets in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation. Distributions will be made only to the extent of the Corporation's assets remaining available after satisfaction of all liabilities to creditors and subject to the rights of holders of any securities ranking senior to the Series L Preferred Stock and *pro rata* as to the Series L Preferred Stock and any other shares of the Corporation's stock ranking equally as to such distribution.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series L Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series L Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series L Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series L Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 9, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property or business of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs

of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 10. Redemption.

The Series L Preferred Stock shall not be redeemable either at the Corporation's option or at the option of the Holders at any time.

Section 11. Voting Rights.

(a) General. The holders of Series L Preferred Stock shall not be entitled to vote on any matter except as set forth in Section 11(b) below or as required by Delaware law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series L Preferred Stock or any other class or series of preferred stock ranking equally with Series L Preferred Stock as to payment of dividends and upon which voting rights equivalent to those granted by this Section 11 have been conferred ("*Voting Parity Securities*") and are exercisable, have not been declared and paid for the equivalent of at least six or more quarterly Dividend Periods (whether consecutive or not (a "*Nonpayment*")), the number of directors constituting the Board shall be increased by two, and the Holders of the outstanding shares of Series L Preferred Stock voting as a class with holders of any series of the Corporation's preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist, shall have the right, voting separately as a single class without regard to series, with voting rights allocated *pro rata* based on liquidation preference, to the exclusion of the holders of Common Stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and provided further that the Board shall at no time include more than two such directors. Each such director elected by the holders of shares of Series L Preferred Stock and any Voting Parity Securities is a "*Preferred Director*." Any Preferred Director elected by the holders of the Series L Preferred Stock and any Parity Stock may only be removed by the vote of the holders of record of the outstanding Series L Preferred Stock and any such Parity Stock, voting together as a single and separate class, at a meeting of the Corporation's stockholders called for that purpose. Any vacancy created by the removal of any Preferred Director may be filled only by the vote of the holders of the outstanding Series L Preferred Stock and any such Parity Stock, voting together as a single and separate class.

Notwithstanding the foregoing, without the consent of the Holders, so long as such action does not adversely affect the interests of the Holders, the Corporation may amend, alter, supplement, or repeal any terms of the Series L Preferred Stock for the following purposes:

(1) to cure any ambiguity, or to cure, correct, or supplement any provision contained in this Certificate of Designations that may be ambiguous, defective, or inconsistent; or

(2) to make any provision with respect to matters or questions relating to the Series L Preferred Stock that is not inconsistent with the provisions of this Certificate of Designations.

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the Holders Series L Preferred Stock and any Voting Parity Securities with exercisable voting rights, called as provided herein. At any time after the special voting right has vested pursuant to Section 11(b)(i) above, the secretary of the Corporation may, and upon the written request of any Holder of Series L Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series L Preferred Stock and any Voting Parity Securities with exercisable voting rights, for the election of the two directors to be elected by them as provided in Section 11(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting will be given in a similar manner to that provided in the Corporation's by-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any Holder of Series L Preferred Stock may (at our expense) call such meeting, upon notice as provided in this Section 11(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of our stockholders unless they have been previously terminated or removed pursuant to Section 11(b)(iv). In case any

vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the Holders of the Series L Preferred Stock (voting together on a single and separate class with holders of any Voting Parity Securities, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. The voting rights described above will terminate, except as provided by law, upon the earlier of (A) the conversion of all of the Series L Preferred Stock or (B) the payment of full dividends on the Series L Preferred Stock and any other series of the Corporation's preferred stock, if any, for the equivalent of at least four quarterly Dividend Periods (but subject to revesting in the case of any similar non-payment of dividends in respect of future Dividend Periods) following a Nonpayment on the Series L Preferred Stock and any other series of the Corporation's preferred stock. Upon termination of the special voting right described above, the terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series L Preferred Stock (voting together as a single and separate class with holders of any Voting Parity Securities, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist).

Section 12. Fractional Shares.

(a) No fractional shares of Common Stock will be issued as a result of any conversion of shares of Series L Preferred Stock.

(b) In lieu of any fractional share of Common Stock otherwise issuable in respect of any conversion at the Corporation's option pursuant to Section 5 hereof or any conversion at the option of the Holder pursuant to Section 6(b), Section 6(c) or Section 6(d) hereof, the Corporation shall pay an amount in cash (computed to the nearest cent) equal to the same fraction of the Closing Price of the Common Stock determined as of the second Trading Day immediately preceding the effective date of conversion.

(c) If more than one share of the Series L Preferred Stock is surrendered for conversion at one time by or for the same Holder, the number of full shares of Common Stock issuable upon conversion thereof shall be computed on the basis of the aggregate number of shares of the Series L Preferred Stock so surrendered.

Section 13. Reservation of Common Stock.

(a) The Corporation shall at all times reserve and keep available out of its authorized and unissued Common Stock or shares held in the treasury by the Corporation, solely for issuance upon the conversion of shares of Series L Preferred Stock as provided in this Certificate of Designations, free from any preemptive or other similar rights, such number of shares of Common Stock as shall from time to time be issuable upon the conversion of all the shares of Series L Preferred Stock then outstanding, at the Applicable Conversion Price subject to adjustment as described under Section 7. For purposes of this Section 13(a), the number of shares of Common Stock that shall be deliverable upon the conversion of all outstanding shares of Series L Preferred Stock shall be computed as if at the time of computation all such outstanding shares were held by a single Holder.

(b) Notwithstanding the foregoing, the Corporation shall be entitled to deliver upon conversion of shares of Series L Preferred Stock, as herein provided, shares of Common Stock acquired by the Corporation (in lieu of the issuance of authorized and unissued shares of Common Stock), so long as any such acquired shares are free and clear of all liens, charges, security interests or encumbrances (other than liens, charges, security interests and other encumbrances created by the Holders).

(c) All shares of Common Stock delivered upon conversion of the Series L Preferred Stock shall be duly authorized, validly issued, fully paid and non-assessable, free and clear of all liens, claims, security interests and other encumbrances (other than liens, charges, security interests and other encumbrances created by the Holders).

(d) Prior to the delivery of any securities that the Corporation shall be obligated to deliver upon conversion of the Series L Preferred Stock, the Corporation shall use its reasonable best efforts to comply with all federal and state laws and regulations thereunder requiring the registration of such securities with, or any approval of or consent to the delivery thereof by, any governmental authority.

(e) The Corporation hereby covenants and agrees that, if at any time the Common Stock shall be listed on the New York Stock Exchange or any other national securities exchange or automated quotation system, the Corporation will, if permitted by the rules of such exchange or automated quotation system, list and keep listed, so long as the Common Stock shall be so listed on such exchange or automated quotation system, all the Common Stock issuable upon conversion of the Series L Preferred Stock; *provided, however*, that if the rules of such exchange or automated quotation system permit the Corporation to defer the listing of such Common Stock until the first conversion of Series L Preferred Stock into Common Stock in accordance

with the provisions hereof, the Corporation covenants to list such Common Stock issuable upon conversion of the Series L Preferred Stock in accordance with the requirements of such exchange or automated quotation system at such time.

Section 14. Preemption. The Holders of Series L Preferred Stock shall not have any rights of preemption.

Section 15. Rank. Notwithstanding anything set forth in the Corporation's Amended and Restated Certificate of Incorporation or this Certificate of Designations to the contrary, the Board, the Committee or any authorized committee of the Board, without the vote of the Holders of the Series L Preferred Stock, may authorize and issue additional shares of Junior Stock, Parity Stock or any class or series of Senior Stock or any other securities ranking senior to the Series L Preferred Stock as to dividends and the distribution of assets upon any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 16. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell shares of Series L Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board or any duly authorized committee of the Board may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 17. Unissued or Reacquired Shares. Shares of Series L Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series and shall be available for subsequent issuance.

Section 18. No Sinking Fund. Shares of Series L Preferred Stock are not subject to the operation of a sinking fund.

Exhibit E

Floating Rate Non-Cumulative Preferred Stock, Series 1

BANK OF AMERICA CORPORATION

**CERTIFICATE OF DESIGNATIONS
Pursuant to Section 151 of the
General Corporation Law of the State of Delaware**

**FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES 1
(Par Value \$0.01 Per Share)**

Bank of America Corporation, a corporation organized and existing under the General Corporation Law of the State of Delaware (the "Corporation"), hereby certifies that the following resolutions were adopted by the Board of Directors of the Corporation (the "Board of Directors") pursuant to the authority of the Board of Directors conferred by Section 151 of the General Corporation Law of the State of Delaware, at a meeting duly convened and held on December 9, 2008:

RESOLVED, that pursuant to the authority granted to and vested in the Board of Directors by the Amended and Restated Certificate of Incorporation of the Corporation, the Board of Directors hereby creates a series of the Corporation's previously authorized preferred stock, par value \$0.01 per share (the "Preferred Stock"), and hereby states the designation and number of shares thereof and establishes the voting powers, preferences and relative, participating, optional and other special rights, and the qualifications, limitations and restrictions thereof, as follows:

FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES 1

(1) Number of Shares and Designation. 21,000 shares of the preferred stock, par value \$0.01 per share, of the Corporation are hereby constituted as a series of preferred stock, par value \$0.01 per share, designated as Floating Rate Non-Cumulative Preferred Stock, Series 1 (hereinafter called the "Preferred Stock, Series 1").

(2) Dividends. (a) The holders of shares of the Preferred Stock, Series 1, shall be entitled to receive, as, if and when declared by the Board of Directors of the Corporation (or a duly authorized committee thereof), out of assets of the Corporation legally available under Delaware law for the payment of dividends, non-cumulative cash dividends at the rate set forth below in this Section (2) applied to the amount of \$30,000 per share. Such dividends shall be payable quarterly, as, if and when declared by the Board of Directors of the Corporation (or a duly authorized committee thereof), on February 28, May 28, August 28 and November 28 (the "Payment Dates") commencing on February 28, 2009; provided that if any such Payment Date is not a New York Business Day and London Business Day, dividends (if declared) on the Preferred Stock, Series 1, will be paid on the immediately succeeding New York Business Day and London Business Day, without interest, unless such day falls in the next calendar month, in which case the Payment Date will be the immediately preceding New York Business Day and London Business Day. Each such dividend shall be payable to the holders of record of shares of the Preferred Stock, Series 1, as they appear on the stock register of the Corporation on such record dates, which shall be a date not more than 30 nor less than 10 days preceding the applicable Payment Dates, as shall be fixed by the Board of Directors of the Corporation (or a duly authorized committee thereof). "London Business Day" means a day other than a Saturday or Sunday on which dealings in deposits in U.S. dollars are transacted, or with respect to any future date are expected to be transacted, in the London interbank market. A "New York Business Day" means any day that is not a Saturday or Sunday and that, in New York City, is not a day on which banking institutions generally are authorized or obligated by law or executive order to be closed.

(b) (i) Dividend periods ("Dividend Periods") shall commence on each Payment Date (other than the initial Dividend Period which shall be deemed to have commenced on November 28, 2008) and shall end on and include the calendar day next preceding the first day of the next Dividend Period. The dividend rate on the shares of Preferred Stock, Series 1 for each Dividend Period shall be a floating rate per annum equal to three-month U.S. dollar LIBOR plus 0.75%, but in no event will the rate be less than 3.00% per annum, of the \$30,000 liquidation preference per share of Preferred Stock, Series 1.

LIBOR, with respect to a Dividend Period, means the rate (expressed as a percentage per annum) for deposits in U.S. dollars for a three month period that normally appears on Moneyline Telerate Page 3750, as displayed on page "BBAM" (British Bankers Association Official BBA LIBOR Fixings) in the Bloomberg Professional Service (or any other service that may replace Moneyline Telerate, Inc. on page BBAM or any other page that may replace page BBAM on the Bloomberg Professional Service or a successor service, in each case, for the purpose of displaying London interbank offered

rates of major banks) as of 11:00 a.m. (London time) on the second London Business Day immediately preceding the first day of such Dividend Period.

If LIBOR cannot be determined as described above, the Corporation will select four major banks in the London interbank market. The Corporation will request that the principal London offices of those four selected banks provide their offered quotations to prime banks in the London interbank market at approximately 11:00 a.m., London time, on the second London Business Day immediately preceding the first day of such Dividend Period. These quotations will be for deposits in U.S. dollars for a three month period. Offered quotations must be based on a principal amount equal to an amount that is representative of a single transaction in U.S. dollars in the market at the time.

If two or more quotations are provided, LIBOR for the Dividend Period will be the arithmetic mean of the quotations. If fewer than two quotations are provided, the Corporation will select three major banks in New York City and will then determine LIBOR for the Dividend Period as the arithmetic mean of rates quoted by those three major banks in New York City to leading European banks at approximately 3:00 p.m., New York City time, on the second London Business Day immediately preceding the first day of such Dividend Period. The rates quoted will be for loans in U.S. dollars, for a three month period. Rates quoted must be based on a principal amount equal to an amount that is representative of a single transaction in U.S. dollars in the market at the time. If fewer than three New York City banks selected by the Corporation are quoting rates, LIBOR for the applicable period will be the same as for the immediately preceding Dividend Period.

(ii) The amount of dividends payable for each full Dividend Period (including the initial Dividend Period) for the Preferred Stock, Series 1, shall (if and when declared, as herein provided) be computed by dividing the dividend rate by four, rounded to the nearest one-hundredth of a percent, with five one-thousandths rounded upwards, and applying the resulting rate to the amount of \$30,000 per share. The amount of dividends payable for any period shorter than a full Dividend Period on the Preferred Stock, Series 1, shall (if and when declared, as herein provided) be computed on the basis of 30-day months, a 360-day year and the actual number of days elapsed in any period of less than one month. The amount of dividends payable on the Preferred Stock, Series 1, shall be rounded to the nearest cent, with one-half cent being rounded upwards.

(c) So long as any shares of the Preferred Stock, Series 1 are outstanding, the Corporation may not declare or pay dividends on, make distributions with respect to, or redeem, purchase or acquire, or make a liquidation payment with respect to the preferred stock of the Corporation of any series and any other stock of the Corporation ranking, as to dividends, on a parity with the Preferred Stock, Series 1 unless for such Dividend Period full dividends on all outstanding shares of Preferred Stock, Series 1 have been declared, paid or set aside for payment. When dividends are not paid in full, as aforesaid, upon the shares of the Preferred Stock, Series 1, and any other preferred stock and other stock of the Corporation ranking on a parity as to dividends with the Preferred Stock, Series 1, all dividends declared upon shares of the Preferred Stock, Series 1, and any other preferred stock and other stock of the Corporation ranking on a parity as to dividends (whether cumulative or non-cumulative) shall be declared pro rata so that the amount of dividends declared per share on the Preferred Stock, Series 1, and all such other stock of the Corporation shall in all cases bear to each other the same ratio that accrued dividends per share on the shares of the Preferred Stock, Series 1 (but without, in the case of any non-cumulative preferred stock, accumulation of unpaid dividends for prior Dividend Periods) and all such other stock bear to each other.

(d) So long as any shares of the Preferred Stock, Series 1 are outstanding, the Corporation may not, at any time, declare or pay dividends on, make distributions with respect to, or redeem, purchase or acquire, or make a liquidation payment with respect to, any Common Stock or any other stock of the Corporation ranking as to dividends or distribution of assets junior to the Preferred Stock, Series 1 unless full dividends on all outstanding shares of Preferred Stock, Series 1 has been declared, paid or set aside for payment for the immediately preceding Dividend Period (except for (x) dividends or distributions paid in shares of, or options, warrants or rights to subscribe for or purchase shares of, the Common Stock or other of the Corporation's capital stock ranking junior to Preferred Stock, Series 1 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation, (y) redemptions or purchases of any rights pursuant to the Amended and Restated Rights Agreement, adopted on December 2, 1997 or any agreement that replaces such Amended and Restated Rights Agreement, or by conversion or exchange for the Corporation's capital stock ranking junior to Preferred Stock, Series 1 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation and (z) purchases by the Corporation or its affiliates in connection with transactions effected by or for the account of customers of the Corporation or customers of any of its subsidiaries or in connection with the distribution or trading of such capital stock); provided, however, that the foregoing dividend preference shall not be cumulative and shall not in any way create any claim or right in favor of the holders of Preferred Stock, Series 1 in the event that dividends have not been declared or paid on the Preferred Stock, Series 1 in respect of any prior Dividend Period. If the full dividend on the Preferred Stock, Series 1 is not paid for any Dividend Period, the holders of Preferred Stock, Series 1 will have no claim in respect of the unpaid amount so long as no dividend (other than those referred to above) is paid on the Common Stock or other of the Corporation's capital stock ranking junior to Preferred Stock, Series 1 as to dividends and dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation.

(e) No dividends may be declared or paid or set aside for payment on any shares of Preferred Stock, Series 1 if at the same time any arrears exists in the payment of dividends on any outstanding class or series of stock of the Corporation ranking, as to the payment of dividends, prior to the Preferred Stock, Series 1.

(f) Holders of shares of the Preferred Stock, Series 1, shall not be entitled to any dividends, whether payable in cash, property or stock, in excess of full dividends, as herein provided, on the Preferred Stock, Series 1. No interest, or sum of money in lieu of interest, shall be payable in respect of any dividend payment or payments on the Preferred Stock, Series 1, which may be in arrears.

(3) Liquidation Preference. (a) In the event of any liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary, before any payment or distribution of the assets of the Corporation or proceeds thereof (whether capital or surplus) shall be made to or set apart for the holders of any series or class or classes of stock of the Corporation ranking junior to the Preferred Stock, Series 1, upon liquidation, dissolution, or winding up, the holders of the shares of the Preferred Stock, Series 1, shall be entitled to receive \$30,000 per share plus an amount equal to declared and unpaid dividends, without accumulation of undeclared dividends. If, upon any liquidation, dissolution, or winding up of the Corporation, the assets of the Corporation, or proceeds thereof, distributable among the holders of the shares of the Preferred Stock, Series 1, shall be insufficient to pay in full the preferential amount aforesaid and liquidating payments on any other shares of preferred stock ranking, as to liquidation, dissolution or winding up, on a parity with the Preferred Stock, Series 1, then such assets, or the proceeds thereof, shall be distributed among the holders of shares of Preferred Stock, Series 1, and any such other preferred stock ratably in accordance with the respective amounts which would be payable on such shares of Preferred Stock, Series 1, and any such other preferred stock if all amounts payable thereon were paid in full. For the purposes of this Section (3), neither the sale, lease or exchange (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation, nor the consolidation, merger or combination of the Corporation into or with one or more corporations or the consolidation, merger or combination of any other corporation or entity into or with the Corporation, shall be deemed to be a voluntary or involuntary liquidation, dissolution or winding up of the Corporation for purposes of this Section (3).

(b) After payment shall have been made in full to the holders of Preferred Stock, Series 1, as provided in this Section (3), the holders of Preferred Stock, Series 1 will not be entitled to any further participation in any distribution of assets of the Corporation. Subject to the rights of the holders of shares of any series or class or classes of stock ranking on a parity with or prior to the Preferred Stock, Series 1, upon liquidation, dissolution or winding up, upon any liquidation, dissolution or winding up of the Corporation, after payment shall have been made in full to the holders of Preferred Stock, Series 1, as provided in this Section (3), but not prior thereto, any other series or class or classes of stock ranking junior to the Preferred Stock, Series 1, shall, subject to the respective terms and provisions (if any) applying thereto, be entitled to receive any and all assets remaining to be paid or distributed, and the holders of the Preferred Stock, Series 1, shall not be entitled to share therein.

(4) Redemption. (a) The Preferred Stock, Series 1, may not be redeemed prior to November 28, 2009. On and after November 28, 2009, the Corporation, at its option, may redeem shares of the Preferred Stock, Series 1, as a whole at any time or in part from time to time, at a redemption price of \$30,000 per share, together in each case with declared and unpaid dividends, without accumulation of any undeclared dividends. The Chief Financial Officer or the Treasurer may exercise the Corporation's right to redeem the Preferred Stock, Series 1 as a whole at any time without further action of the Board of Directors or a duly authorized committee thereof. The Corporation may only elect to redeem the Preferred Stock, Series 1 in part pursuant to a resolution by the Board of Directors or a duly authorized committee thereof.

(b) In the event the Corporation shall redeem shares of Preferred Stock, Series 1, notice of such redemption shall be given by first class mail, postage prepaid, mailed not less than 30 nor more than 60 days prior to the redemption date, to each holder of record of the shares to be redeemed, at such holder's address as the same appears on the stock register of the Corporation. Each such notice shall state: (1) the redemption date; (2) the number of shares of Preferred Stock, Series 1, to be redeemed and, if less than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (3) the redemption price; and (4) the place or places where certificates for such shares are to be surrendered for payment of the redemption price. Notice having been mailed as aforesaid, from and after the redemption date (unless default shall be made by the Corporation in providing money for the payment of the redemption price) said shares shall no longer be deemed to be outstanding, and all rights of the holders thereof as stockholders of the Corporation (except the right to receive from the Corporation the redemption price) shall cease. The Corporation's obligation to provide moneys in accordance with the preceding sentence shall be deemed fulfilled if, on or before the redemption date, the Corporation shall deposit with a bank or trust company (which may be an affiliate of the Corporation) having an office in the Borough of Manhattan, City of New York, having a capital and surplus of at least \$50,000,000, funds necessary for such redemption, in trust, with irrevocable instructions that such funds be applied to the redemption of the shares of Preferred Stock, Series 1, so called for redemption. Any interest accrued on such funds shall be paid to the Corporation from time to time. Any funds so deposited and unclaimed at the end of two years from such redemption date shall be released or repaid to the Corporation, after

which the holder or holders of such shares of Preferred Stock, Series 1, so called for redemption shall look only to the Corporation for payment of the redemption price.

Upon surrender, in accordance with said notice, of the certificates for any such shares so redeemed (properly endorsed or assigned for transfer, if the Board of Directors of the Corporation shall so require and the notice shall so state), such shares shall be redeemed by the Corporation at the applicable redemption price aforesaid. If less than all the outstanding shares of Preferred Stock, Series 1, are to be redeemed, shares to be redeemed shall be selected by the Board of Directors of the Corporation (or a duly authorized committee thereof) from outstanding shares of Preferred Stock, Series 1, not previously called for redemption by lot or pro rata or by any other method determined by the Board of Directors of the Corporation (or a duly authorized committee thereof) to be equitable. If fewer than all the shares represented by any certificate are redeemed, a new certificate shall be issued representing the unredeemed shares without charge to the holder thereof.

The Preferred Stock, Series 1 will not be subject to any mandatory redemption, sinking fund or other similar provisions. Holders of Preferred Stock, Series 1 will have no right to require redemption of any shares of Preferred Stock, Series 1.

(5) Terms Dependent on Regulatory Changes. If, (a) after the date of the issuance of the Preferred Stock, Series 1, the Corporation (by election or otherwise) becomes subject to any law, rule, regulation or guidance (together, "Regulations") relating to its capital adequacy which Regulation (x) provides for a type or level of capital characterized as "Tier 1" in, or pursuant to Regulations of any governmental agency, authority or body having regulatory jurisdiction over the Corporation and implementing, the capital standards published by the Basel Committee on Banking Supervision, the Securities and Exchange Commission, the Board of Governors of the Federal Reserve System, or any other United States national governmental agency, authority or body, or (y) provides for a type or level of capital that in the judgment of the Board of Directors (or a duly authorized committee thereof) after consultation with legal counsel of recognized standing is substantially equivalent to such "Tier 1" capital (such capital described in either (x) or (y) is referred to below as "Tier 1 Capital"), and (b) the Board of Directors (or a duly authorized committee thereof) affirmatively elects to qualify the Preferred Stock, Series 1 for such Tier 1 Capital treatment without any sublimit or other quantitative restrictions on the inclusion of such Preferred Stock, Series 1 in Tier 1 Capital (other than any limitation requiring that common equity or a specified form of common equity constitute the dominant form of Tier 1 Capital) under such Regulations, then, upon such affirmative election, the terms of the Preferred Stock, Series 1 shall automatically be amended to reflect the following modifications (without any action or consent by the holders of the Preferred Stock, Series 1 or any other vote of stockholders of the Corporation):

(i) If and to the extent such modification is a Required Unrestricted Tier 1 Provision (as defined below), the Corporation's right to redeem the Preferred Stock, Series 1 on and after November 28, 2009 pursuant to Section 4 hereof shall be restricted (such restrictions including but not limited to any requirement that the Corporation receive prior approval for such redemption from any applicable governmental agency, authority or body or that such redemption be prohibited);

(ii) If and to the extent such modification is a Required Unrestricted Tier 1 Provision, the Corporation's right to make distributions with respect to, or redeem, purchase or acquire or make payments on, securities junior to the Preferred Stock, Series 1 (upon a non-payment of dividends on the Preferred Stock, Series 1) shall become subject to additional restrictions (other than those set forth in Section 2(d) hereof) pursuant to the terms of the Preferred Stock, Series 1; and

(iii) If and to the extent such modification is a Required Unrestricted Tier 1 Provision, any other new provisions or terms shall be added to the Preferred Stock, Series 1, or existing terms shall be modified; provided, however, that no such provision or term shall be added, and no such modification shall be made pursuant to the terms of this Section 5(iii), if it would alter or change the rights, powers or preferences of the shares of the Preferred Stock, Series 1 so as to affect the shares of the Preferred Stock, Series 1 adversely.

As used above, the term "Required Unrestricted Tier 1 Provision" means a term which is, in the written opinion of legal counsel of recognized standing and delivered to the Corporation, required for the Preferred Stock, Series 1 to be treated as Tier 1 Capital of the Corporation without any sublimit or other quantitative restriction on the inclusion of such Preferred Stock, Series 1 in Tier 1 Capital (other than any limitation requiring that common equity or a specified form of common equity constitute the dominant form of Tier 1 Capital) pursuant to the applicable Regulations. The Corporation shall provide notice to holders of any Preferred Stock, Series 1 of any such changes in the terms of the Preferred Stock, Series 1 made pursuant to the terms of this Section 5 on or about the date of effectiveness of any such modification and shall maintain a copy of such notice on file at the principal offices of the Corporation. A copy of the relevant Regulations shall also be on file at the principal offices of the Corporation and, upon request, will be made available to such holders.

(6) Voting Rights. The Preferred Stock, Series 1, shall have no voting rights, except as hereinafter set forth or as otherwise from time to time required by law.

The holders of the Preferred Stock shall be entitled to vote on all matters submitted to a vote of the holders of Common Stock of the Corporation, voting together with the holders of Common Stock as one class. Each share of Preferred Stock shall be entitled to 150 votes.

Whenever dividends payable on the Preferred Stock, Series 1, have not been declared or paid for such number of Dividend Periods, whether or not consecutive, which in the aggregate is equivalent to six Dividend Periods (a "Nonpayment"), the holders of outstanding shares of the Preferred Stock, Series 1, shall have the exclusive right, voting as a class with holders of shares of all other series of preferred stock ranking on a parity with the Preferred Stock, Series 1, either as to dividends or the distribution of assets upon liquidation, dissolution or winding up and upon which like voting rights have been conferred and are exercisable (to the extent such other series of preferred stock are entitled to vote pursuant to the terms thereof), to vote for the election of two additional directors at the next annual meeting of stockholders and at each subsequent annual meeting of stockholders. At elections for such directors, each holder of the Preferred Stock, Series 1, shall be entitled to three votes for each share of Preferred Stock, Series 1 held (the holders of shares of any other series of preferred stock ranking on such a parity being entitled to such number of votes, if any, for each share of stock held as may be granted to them). Upon the vesting of such right of such holders, the maximum authorized number of members of the Board of Directors shall automatically be increased by two and the two vacancies so created shall be filled by vote of the holders of such outstanding shares of Preferred Stock, Series 1, (either alone or together with the holders of shares of all other series of preferred stock ranking on such a parity) as hereinafter set forth. The right of such holders of such shares of the Preferred Stock, Series 1, voting as a class with holders of shares of all other series of preferred stock ranking on such a parity, to elect members of the Board of Directors of the Corporation as aforesaid shall continue until all dividends on such shares of Preferred Stock, Series 1, shall have been paid in full for at least four Dividend Periods following the Nonpayment. Upon payment in full of such dividends, such voting rights shall terminate except as expressly provided by law, subject to re-vesting in the event of each and every subsequent Nonpayment in the payment of dividends as aforesaid.

Upon termination of the right of the holders of the Preferred Stock, Series 1, to vote for directors as provided in the previous paragraph, the term of office of all directors then in office elected by such holders will terminate immediately. If the office of any director elected by such holders voting as a class becomes vacant by reason of death, resignation, retirement, disqualification, removal from office or otherwise, the remaining director elected by such holders voting as a class may choose a successor who shall hold office for the unexpired term in respect of which such vacancy occurred. Whenever the term of office of the directors elected by such holders voting as a class shall end and the special voting rights shall have expired, the number of directors shall be such number as may be provided for in the By-laws irrespective of any increase made pursuant to the provisions hereof.

So long as any shares of the Preferred Stock, Series 1, remain outstanding, the affirmative vote or consent of the holders of at least two-thirds of the shares of the Preferred Stock, Series 1, outstanding at the time (voting as a class with all other series of preferred stock ranking on a parity with the Preferred Stock, Series 1, either as to dividends or the distribution of assets upon liquidation, dissolution or winding up and upon which like voting rights have been conferred and are exercisable), given in person or by proxy, either in writing or at any meeting called for the purpose, shall be necessary to permit, effect or validate any one or more of the following:

(i) the authorization, creation or issuance, or any increase in the authorized or issued amount, of any class or series of stock ranking prior to the Preferred Stock, Series 1, with respect to payment of dividends or the distribution of assets upon liquidation, dissolution or winding up; or

(ii) the amendment, alteration or repeal, whether by merger, consolidation or otherwise, of any of the provisions of the Amended and Restated Certificate of Incorporation, as amended, or of the resolutions set forth in a Certificate of Designations for such Preferred Stock, Series 1, which would adversely affect any right, preference, privilege or voting power of the Preferred Stock, Series 1, or of the holders thereof;

provided, however, that any increase in the amount of issued Preferred Stock, Series 1 or authorized preferred stock or the creation and issuance, or an increase in the authorized or issued amount, of other series of preferred stock, in each case ranking on a parity with or junior to the Preferred Stock, Series 1, with respect to the payment of dividends (whether such dividends were cumulative or non-cumulative) and the distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such rights, preferences, privileges or voting powers.

Without the consent of the holders of the Preferred Stock, Series 1, so long as such action does not adversely affect the interests of holders of Preferred Stock, Series 1, the Corporation may amend, alter, supplement or repeal any terms of the Preferred Stock, Series 1:

(i) to cure any ambiguity, or to cure, correct or supplement any provision contained in a Certificate of Designations for such Preferred Stock, Series 1 that may be defective or inconsistent; or

(ii) to make any provision with respect to matters or questions arising with respect to the Preferred Stock, Series 1 that is not inconsistent with the provisions of a Certificate of Designations for such Preferred Stock, Series 1.

The rules and procedures for calling and conducting any meeting of the holders of Preferred Stock, Series 1 (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such a meeting, the obtaining of written consents, and any other aspect or matter with regard to such a meeting or such consents

shall be governed by any rules the Board of Directors of the Corporation, or a duly authorized committee thereof, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of any national securities exchange on which the Preferred Stock, Series 1 are listed at the time.

The foregoing voting provisions shall not apply if, at or prior to the time when the act with respect to which such vote would otherwise be required shall be effected, all outstanding shares of Preferred Stock, Series 1, shall have been redeemed or sufficient funds shall have been deposited in trust to effect such a redemption which is scheduled to be consummated within three months after the time that such rights would otherwise be exercisable.

(7) Record Holders. The Corporation and the transfer agent for the Preferred Stock, Series 1, may deem and treat the record holder of any share of such Preferred Stock as the true and lawful owner thereof for all purposes, and neither the Corporation nor such transfer agent shall be affected by any notice to the contrary.

(8) Ranking. Any class or classes of stock of the Corporation shall be deemed to rank:

(i) on a parity with the Preferred Stock, Series 1, as to dividends or as to distribution of assets upon liquidation, dissolution or winding up, whether or not the dividend rates, dividend payment dates, or redemption or liquidation prices per share thereof be different from those of the Preferred Stock, Series 1, if the holders of such class of stock and the Preferred Stock, Series 1, shall be entitled to the receipt of dividends or of amounts distributable upon liquidation, dissolution or winding up, as the case may be, in proportion to their respective dividend rates (whether cumulative or non-cumulative) or liquidation prices, without preference or priority one over the other; and

(ii) junior to the Preferred Stock, Series 1, as to dividends or as to the distribution of assets upon liquidation, dissolution or winding up, if such stock shall be Common Stock or if the holders of Preferred Stock, Series 1, shall be entitled to receipt of dividends or of amounts distributable upon dissolution, liquidation or winding up, as the case may be, in preference or priority to the holders of shares of such stock.

(iii) The Shares of Preferred Stock of the Corporation designated "Floating Rate Non-Cumulative Preferred Stock, Series 2," "6.375% Non-Cumulative Preferred Stock, Series 3," "Floating Rate Non-Cumulative Preferred Stock, Series 4," "Floating Rate Non-Cumulative Preferred Stock, Series 5," "6.70% Non-Cumulative Perpetual Preferred Stock, Series 6," "6.25% Non-Cumulative Perpetual Preferred Stock, Series 7," "8.625% Non-Cumulative Preferred Stock, Series 8," "Cumulative Redeemable Preferred Stock, Series B," "Floating Rate Non-Cumulative Preferred Stock, Series E," "6.204% Non-Cumulative Preferred Stock, Series D," "Floating Rate Non-Cumulative Preferred Stock, Series F," "Adjustable Rate Non-Cumulative Preferred Stock, Series G," "8.20% Non-Cumulative Preferred Stock, Series H," "6.625% Non-Cumulative Preferred Stock, Series I," "7.25% Non-Cumulative Preferred Stock, Series J," "7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L," "Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K," and "Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M," and any other class or series of stock of the Corporation hereafter authorized that ranks on parity with the Preferred Stock, Series 1, as to dividends and distribution of assets upon liquidation, dissolution or winding up of the Corporation, shall be deemed to rank on a parity with the shares of the Preferred Stock, Series 1, as to dividends and distribution of assets upon the liquidation, dissolution or winding up of the Corporation.

(9) Exclusion of Other Rights. Unless otherwise required by law, shares of Preferred Stock, Series 1, shall not have any rights, including preemptive rights, or preferences other than those specifically set forth herein or as provided by applicable law.

(10) Notices. All notices or communications unless otherwise specified in the By-laws of the Corporation or the Amended and Restated Certificate of Incorporation, as amended, shall be sufficiently given if in writing and delivered in person or by first class mail, postage prepaid. Notice shall be deemed given on the earlier of the date received or the date such notice is mailed.

IN WITNESS WHEREOF, the undersigned, being duly authorized thereto, does hereby affirm, under penalties of perjury, that this certificate is the act and deed of the Corporation and that the facts herein stated are true, and accordingly has hereunto set her hand this 31st day of December, 2008.

BANK OF AMERICA CORPORATION

By: /s/ TERESA M. BRENNER
Name: Teresa M. Brenner
Title: Associate General Counsel

[Signature Page to Certificate of Designations, Series I]

Exhibit F

Floating Rate Non-Cumulative Preferred Stock, Series 2

BANK OF AMERICA CORPORATION

CERTIFICATE OF DESIGNATIONS

**Pursuant to Section 151 of the
General Corporation Law of the State of Delaware**

**FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES 2
(Par Value \$0.01 Per Share)**

Bank of America Corporation, a corporation organized and existing under the General Corporation Law of the State of Delaware (the "Corporation"), hereby certifies that the following resolutions were adopted by the Board of Directors of the Corporation (the "Board of Directors") pursuant to the authority of the Board of Directors as conferred by Section 151 of the General Corporation Law of the State of Delaware, at a meeting duly convened and held on December 9, 2008:

RESOLVED, that pursuant to the authority granted to and vested in the Board of Directors by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, the Board of Directors hereby creates a series of the Corporation's previously authorized preferred stock, par value \$0.01 per share (the "Preferred Stock"), and hereby states the designation and number of shares thereof and establishes the voting powers, preferences and relative, participating, optional and other special rights, and the qualifications, limitations and restrictions thereof, as follows:

FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES 2

(1) Number of Shares and Designation. 37,000 shares of the preferred stock, par value \$0.01 per share, of the Corporation are hereby constituted as a series of preferred stock, par value \$0.01 per share, designated as Floating Rate Non-Cumulative Preferred Stock, Series 2 (hereinafter called the "Preferred Stock, Series 2").

(2) Dividends. (a) The holders of shares of the Preferred Stock, Series 2, shall be entitled to receive, as, if and when declared by the Board of Directors of the Corporation (or a duly authorized committee thereof), out of assets of the Corporation legally available under Delaware law for the payment of dividends, non-cumulative cash dividends at the rate set forth below in this Section (2) applied to the amount of \$30,000 per share. Such dividends shall be payable quarterly, in arrears, as, if and when declared by the Board of Directors of the Corporation (or a duly authorized committee thereof), on February 28, May 28, August 28 and November 28 (the "Payment Dates"); provided that if any such Payment Date is not a New York Business Day and London Business Day, the Payment Date will be the next succeeding day that is a New York Business Day and London Business Day, unless such day falls in the next calendar month, in which case the Payment Date will be the immediately preceding New York Business Day and London Business Day. The dividend, if declared, for the initial Dividend Period (as defined below) shall be paid on February 28, 2009. Each such dividend shall be payable to the holders of record of shares of the Preferred Stock, Series 2, as they appear on the stock register of the Corporation on such record dates, which shall be a date not more than 30 days nor less than 10 days preceding the applicable Payment Dates, as shall be fixed by the Board of Directors of the Corporation (or a duly authorized committee thereof). "London Business Day" means a day other than a Saturday or Sunday on which dealings in deposits in U.S. dollars are transacted, or with respect to any future date are expected to be transacted, in the London interbank market. A "New York Business Day" means any day that is not a Saturday or Sunday and that, in New York City, is not a day on which banking institutions generally are authorized or obligated by law or executive order to be closed.

(b) (i) Dividend periods ("Dividend Periods") shall commence on each Payment Date (other than the initial Dividend Period which shall be deemed to have commenced on November 28, 2008) and shall end on and exclude the next succeeding Payment Date. The dividend rate on the shares of Preferred Stock, Series 2, for each Dividend Period shall be a floating rate *per annum* equal to three-month U.S. dollar LIBOR plus 0.65%, but in no event will the rate be less than 3.00% per annum, of the \$30,000 liquidation preference per share of Preferred Stock, Series 2.

The "three-month U.S. dollar LIBOR", with respect to a Dividend Period, means the rate (expressed as a percentage per annum) for deposits in U.S. dollars for a three month period that normally appears on Moneyline Telerate Page 3750, as displayed on page "BBAM" (British Bankers Association Official BBA LIBOR Fixings) in the Bloomberg Professional Service (or any other service that may replace Moneyline Telerate, Inc. on page BBAM or any other page that may replace page BBAM

on the Bloomberg Professional Service or a successor service, in each case, for the purpose of displaying London interbank offered rates of major banks) as of 11:00 a.m. (London time) on the second London Business Day immediately preceding the first day of such Dividend Period.

If three-month U.S. dollar LIBOR cannot be determined as described above, the Corporation will select four major banks in the London interbank market. The Corporation will request that the principal London offices of those four selected banks provide their offered quotations to prime banks in the London interbank market at approximately 11:00 a.m., London time, on the second London Business Day immediately preceding the first day of such Dividend Period. These quotations will be for deposits in U.S. dollars for a three month period. Offered quotations must be based on a principal amount equal to an amount that is representative of a single transaction in U.S. dollars in the market at the time.

If two or more quotations are provided, three-month U.S. dollar LIBOR for the Dividend Period will be the arithmetic mean of the quotations. If fewer than two quotations are provided, the Corporation will select three major banks in New York City and will then determine three-month U.S. dollar LIBOR for the Dividend Period as the arithmetic mean of rates quoted by those three major banks in New York City to leading European banks at approximately 3:00 p.m., New York City time, on the second London Business Day immediately preceding the first day of such Dividend Period. The rates quoted will be for loans in U.S. dollars, for a three month period. Rates quoted must be based on a principal amount equal to an amount that is representative of a single transaction in U.S. dollars in the market at the time. If fewer than three New York City banks selected by the Corporation are quoting rates, three-month U.S. dollar LIBOR for the applicable period will be the same as for the immediately preceding Dividend Period.

(ii) Dividends on the Preferred Stock, Series 2, shall (if and when declared, as herein provided) be computed on the basis of a 360-day year and the actual number of days elapsed in each Dividend Period. Accordingly, the amount of dividends payable per share for each Dividend Period (including the initial Dividend Period) for the Preferred Stock, Series 2 shall (if and when declared, as herein provided) equal the product of (i) the applicable dividend rate, (ii) \$30,000 and (iii) a fraction (A) the numerator of which will be the actual number of days elapsed in such Dividend Period, and (B) the denominator of which will be 360. The amount of dividends payable on the Preferred Stock, Series 2, shall be rounded to the nearest cent, with one-half cent being rounded upwards.

(c) So long as any shares of the Preferred Stock, Series 2 are outstanding, the Corporation may not declare or pay dividends on, make distributions with respect to, or redeem, purchase or acquire (except for purchases by the Corporation or its affiliates in connection with transactions effected by or for the account of customers of the Corporation or customers of any of its subsidiaries or in connection with the distribution or trading of such stock), or make a liquidation payment with respect to the preferred stock of the Corporation of any series and any other stock of the Corporation ranking, as to dividends, on a parity with the Preferred Stock, Series 2 unless for such Dividend Period full dividends on all outstanding shares of Preferred Stock, Series 2 have been declared, paid or set aside for payment. When dividends are not paid in full, as aforesaid, upon the shares of the Preferred Stock, Series 2, and any other preferred stock and other stock of the Corporation ranking on a parity as to dividends with the Preferred Stock, Series 2, all dividends declared upon shares of the Preferred Stock, Series 2, and any other preferred stock and other stock of the Corporation ranking on a parity as to dividends (whether cumulative or non-cumulative) shall be declared *pro rata* so that the amount of dividends declared per share on the Preferred Stock, Series 2, and all such other stock of the Corporation shall in all cases bear to each other the same ratio that accrued dividends per share on the shares of the Preferred Stock, Series 2 (but without, in the case of any non-cumulative preferred stock, accumulation of unpaid dividends for prior Dividend Periods) and all such other stock bear to each other.

(d) So long as any shares of the Preferred Stock, Series 2 are outstanding, the Corporation may not, at any time, declare or pay dividends on, make distributions with respect to, or redeem, purchase or acquire, or make a liquidation payment with respect to, any Common Stock or any other stock of the Corporation ranking as to dividends or distribution of assets junior to the Preferred Stock, Series 2 unless full dividends on all outstanding shares of Preferred Stock, Series 2 have been declared, paid or set aside for payment for the immediately preceding Dividend Period (except for (x) dividends or distributions paid in shares of, or options, warrants or rights to subscribe for or purchase shares of, the Common Stock or other of the Corporation's capital stock ranking junior to Preferred Stock, Series 2 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation, (y) redemptions or purchases of any rights pursuant to the Amended and Restated Rights Agreement, adopted on December 2, 1997 or any agreement that replaces such Amended and Restated Rights Agreement, or by conversion or exchange for the Corporation's capital stock ranking junior to Preferred Stock, Series 2 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation and (z) purchases by the Corporation or its affiliates in connection with transactions effected by or for the account of customers of the Corporation or customers of any of its subsidiaries or in connection with the distribution or trading of such capital stock); provided, however, that the foregoing dividend preference shall not be cumulative and shall not in any way create any claim or right in favor of the holders of Preferred Stock, Series 2 in the event that dividends have not been declared or paid on the Preferred Stock, Series 2 in respect of any prior Dividend Period. If the full dividend on the Preferred Stock, Series 2 is not paid for any Dividend

Period, the holders of Preferred Stock, Series 2 will have no claim in respect of the unpaid amount so long as no dividend (other than those referred to above) is paid on the Common Stock or other of the Corporation's capital stock ranking junior to Preferred Stock, Series 2 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation.

(e) No dividends may be declared or paid or set aside for payment on any shares of Preferred Stock, Series 2 if at the same time any arrears exists in the payment of dividends on any outstanding class or series of stock of the Corporation ranking, as to the payment of dividends, prior to the Preferred Stock, Series 2.

(f) Holders of shares of the Preferred Stock, Series 2, shall not be entitled to any dividends, whether payable in cash, property or stock, in excess of full dividends, as herein provided, on the Preferred Stock, Series 2. No interest, or sum of money in lieu of interest, shall be payable in respect of any dividend payment or payments on the Preferred Stock, Series 2, which may be in arrears.

(3) Liquidation Preference. (a) In the event of any liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary, before any payment or distribution of the assets of the Corporation or proceeds thereof (whether capital or surplus) shall be made to or set apart for the holders of any series or class or classes of stock of the Corporation ranking junior to the Preferred Stock, Series 2, upon liquidation, dissolution, or winding up, the holders of the shares of the Preferred Stock, Series 2, shall be entitled to receive \$30,000 per share plus an amount equal to declared and unpaid dividends, without accumulation of undeclared dividends. If, upon any liquidation, dissolution, or winding up of the Corporation, the assets of the Corporation, or proceeds thereof, distributable among the holders of the shares of the Preferred Stock, Series 2, shall be insufficient to pay in full the preferential amount aforesaid and liquidating payments on any other shares of preferred stock ranking, as to liquidation, dissolution or winding up, on a parity with the Preferred Stock, Series 2, then such assets, or the proceeds thereof, shall be distributed among the holders of shares of Preferred Stock, Series 2, and any such other preferred stock ratably in accordance with the respective amounts which would be payable on such shares of Preferred Stock, Series 2, and any such other preferred stock if all amounts payable thereon were paid in full. For the purposes of this Section (3), neither the sale, lease or exchange (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation, nor the consolidation, merger or combination of the Corporation into or with one or more corporations or the consolidation, merger or combination of any other corporation or entity into or with the Corporation, shall be deemed to be a voluntary or involuntary liquidation, dissolution or winding up of the Corporation for purposes of this Section (3).

(b) After payment shall have been made in full to the holders of Preferred Stock, Series 2, as provided in this Section (3), the holders of Preferred Stock, Series 2 will not be entitled to any further participation in any distribution of assets of the Corporation. Subject to the rights of the holders of shares of any series or class or classes of stock ranking on a parity with or prior to the Preferred Stock, Series 2, upon liquidation, dissolution or winding up, upon any liquidation, dissolution or winding up of the Corporation, after payment shall have been made in full to the holders of Preferred Stock, Series 2, as provided in this Section (3), but not prior thereto, any other series or class or classes of stock ranking junior to the Preferred Stock, Series 2, shall, subject to the respective terms and provisions (if any) applying thereto, be entitled to receive any and all assets remaining to be paid or distributed, and the holders of the Preferred Stock, Series 2, shall not be entitled to share therein.

(4) Redemption. (a) The Preferred Stock, Series 2, may not be redeemed prior to November 28, 2009. On and after November 28, 2009, the Corporation, at its option, may redeem shares of the Preferred Stock, Series 2, as a whole at any time or in part from time to time, at a redemption price of \$30,000 per share, together in each case with declared and unpaid dividends, without accumulation of any undeclared dividends. The Chief Financial Officer or the Treasurer may exercise the Corporation's right to redeem the Preferred Stock, Series 2 as a whole at any time without further action of the Board of Directors or a duly authorized committee thereof. The Corporation may only elect to redeem the Preferred Stock, Series 2 in part pursuant to a resolution by the Board of Directors or a duly authorized committee thereof.

(b) In the event the Corporation shall redeem shares of Preferred Stock, Series 2, notice of such redemption shall be given by first class mail, postage prepaid, mailed not less than 30 days nor more than 60 days prior to the redemption date, to each holder of record of the shares to be redeemed, at such holder's address as the same appears on the stock register of the Corporation. Each such notice shall state: (1) the redemption date; (2) the number of shares of Preferred Stock, Series 2, to be redeemed and, if less than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (3) the redemption price; and (4) the place or places where certificates for such shares are to be surrendered for payment of the redemption price. Notice having been mailed as aforesaid, from and after the redemption date (unless default shall be made by the Corporation in providing money for the payment of the redemption price) said shares shall no longer be deemed to be outstanding, and all rights of the holders thereof as stockholders of the Corporation (except the right to receive from the Corporation the redemption price) shall cease. The Corporation's obligation to provide moneys in accordance with the preceding sentence shall be deemed fulfilled if, on or before the redemption date, the Corporation shall deposit with a bank or trust company (which may be an affiliate of the Corporation) having an office in the Borough of Manhattan, City of

New York, having a capital and surplus of at least \$50,000,000, funds necessary for such redemption, in trust, with irrevocable instructions that such funds be applied to the redemption of the shares of Preferred Stock, Series 2, so called for redemption. Any interest accrued on such funds shall be paid to the Corporation from time to time. Any funds so deposited and unclaimed at the end of two years from such redemption date shall be released or repaid to the Corporation, after which the holder or holders of such shares of Preferred Stock, Series 2, so called for redemption shall look only to the Corporation for payment of the redemption price.

Upon surrender, in accordance with said notice, of the certificates for any such shares so redeemed (properly endorsed or assigned for transfer, if the Board of Directors of the Corporation shall so require and the notice shall so state), such shares shall be redeemed by the Corporation at the applicable redemption price aforesaid. If less than all the outstanding shares of Preferred Stock, Series 2, are to be redeemed, shares to be redeemed shall be selected by the Board of Directors of the Corporation (or a duly authorized committee thereof) from outstanding shares of Preferred Stock, Series 2, not previously called for redemption by lot or *pro rata* or by any other method determined by the Board of Directors of the Corporation (or a duly authorized committee thereof) to be equitable. If fewer than all the shares represented by any certificate are redeemed, a new certificate shall be issued representing the unredeemed shares without charge to the holder thereof.

The Preferred Stock, Series 2 will not be subject to any mandatory redemption, sinking fund or other similar provisions. Holders of Preferred Stock, Series 2 will have no right to require redemption of any shares of Preferred Stock, Series 2.

(5) Terms Dependent on Regulatory Changes. If, (a) the Corporation (by election or otherwise) is subject to any law, rule, regulation or guidance (together, “Regulations”) relating to its capital adequacy which Regulation (x) provides for a type or level of capital characterized as “Tier 1” in, or pursuant to Regulations of any governmental agency, authority or body having regulatory jurisdiction over the Corporation and implementing, the capital standards published by the Basel Committee on Banking Supervision, the Securities and Exchange Commission, the Board of Governors of the Federal Reserve System, or any other United States national governmental agency, authority or body, or (y) provides for a type or level of capital that in the judgment of the Board of Directors (or a duly authorized committee thereof) after consultation with legal counsel of recognized standing is substantially equivalent to such “Tier 1” capital (such capital described in either (x) or (y) is referred to below as “Tier 1 Capital”), and (b) the Board of Directors (or a duly authorized committee thereof) affirmatively elects to qualify the Preferred Stock, Series 2 for such Tier 1 Capital treatment without any sublimit or other quantitative restrictions on the inclusion of such Preferred Stock, Series 2 in Tier 1 Capital (other than any limitation requiring that common equity or a specified form of common equity constitute the dominant form of Tier 1 Capital) under such Regulations, then, upon such affirmative election, the terms of the Preferred Stock, Series 2 shall automatically be amended to reflect the following modifications (without any action or consent by the holders of the Preferred Stock, Series 2 or any other vote of stockholders of the Corporation):

(i) If and to the extent such modification is a Required Unrestricted Tier 1 Provision (as defined below), the Corporation’s right to redeem the Preferred Stock, Series 2 on and after November 28, 2009 pursuant to Section 4 hereof shall be restricted (such restrictions including but not limited to any requirement that the Corporation receive prior approval for such redemption from any applicable governmental agency, authority or body or that such redemption be prohibited);

(ii) If and to the extent such modification is a Required Unrestricted Tier 1 Provision, the Corporation’s right to make distributions with respect to, or redeem, purchase or acquire or make payments on, securities junior to the Preferred Stock, Series 2 (upon a non-payment of dividends on the Preferred Stock, Series 2) shall become subject to additional restrictions (other than those set forth in Section 2(d) hereof) pursuant to the terms of the Preferred Stock, Series 2; and

(iii) If and to the extent such modification is a Required Unrestricted Tier 1 Provision, any other new provisions or terms shall be added to the Preferred Stock, Series 2, or existing terms shall be modified; provided, however, that no such provision or term shall be added, and no such modification shall be made pursuant to the terms of this Section 5(iii), if it would alter or change the rights, powers or preferences of the shares of the Preferred Stock, Series 2 so as to affect the shares of the Preferred Stock, Series 2 adversely.

As used above, the term “Required Unrestricted Tier 1 Provision” means a term which is, in the written opinion of legal counsel of recognized standing and delivered to the Corporation, required for the Preferred Stock, Series 2 to be treated as Tier 1 Capital of the Corporation without any sublimit or other quantitative restriction on the inclusion of such Preferred Stock, Series 2 in Tier 1 Capital (other than any limitation requiring that common equity or a specified form of common equity constitute the dominant form of Tier 1 Capital) pursuant to the applicable Regulations. The Corporation shall provide notice to holders of any Preferred Stock, Series 2 of any such changes in the terms of the Preferred Stock, Series 2 made pursuant to the terms of this Section 5 on or about the date of effectiveness of any such modification and shall maintain a copy of such notice on file at the principal offices of the Corporation. A copy of the relevant Regulations shall also be on file at the principal offices of the Corporation and, upon request, will be made available to such holders.

(6) Voting Rights. The Preferred Stock, Series 2, shall have no voting rights, except as hereinafter set forth or as otherwise from time to time required by law.

The holders of the Preferred Stock shall be entitled to vote on all matters submitted to a vote of the holders of Common Stock of the Corporation, voting together with the holders of Common Stock as one class. Each share of Preferred Stock shall be entitled to 150 votes.

Whenever dividends payable on the Preferred Stock, Series 2, have not been declared or paid for such number of Dividend Periods, whether or not consecutive, which in the aggregate is equivalent to six Dividend Periods (a "Nonpayment"), the holders of outstanding shares of the Preferred Stock, Series 2, shall have the exclusive right, voting as a class with holders of shares of all other series of preferred stock ranking on a parity with the Preferred Stock, Series 2, either as to dividends or the distribution of assets upon liquidation, dissolution or winding up and upon which like voting rights have been conferred and are exercisable (to the extent such other series of preferred stock are entitled to vote pursuant to the terms thereof), to vote for the election of two additional directors at the next annual meeting of stockholders and at each subsequent annual meeting of stockholders on the terms set forth below. At elections for such directors, each holder of the Preferred Stock, Series 2, shall be entitled to three votes for each share of Preferred Stock, Series 2 held (the holders of shares of any other series of preferred stock ranking on such a parity being entitled to such number of votes, if any, for each share of stock held as may be granted to them).

Upon the vesting of such right of such holders, the maximum authorized number of members of the Board of Directors shall automatically be increased by two and the two vacancies so created shall be filled by vote of the holders of such outstanding shares of Preferred Stock, Series 2, (either alone or together with the holders of shares of all other series of preferred stock ranking on such a parity) as hereinafter set forth. The right of such holders of such shares of the Preferred Stock, Series 2, voting as a class with holders of shares of all other series of preferred stock ranking on such a parity, to elect members of the Board of Directors of the Corporation as aforesaid shall continue until all dividends on such shares of Preferred Stock, Series 2, shall have been paid in full for at least four Dividend Periods following the Nonpayment. Upon payment in full of such dividends, such voting rights shall terminate except as expressly provided by law, subject to re-vesting in the event of each and every subsequent Nonpayment in the payment of dividends as aforesaid.

Upon termination of the right of the holders of the Preferred Stock, Series 2, to vote for directors as provided in the previous paragraph, the term of office of all directors then in office elected by such holders will terminate immediately. If the office of any director elected by such holders voting as a class becomes vacant by reason of death, resignation, retirement, disqualification, removal from office or otherwise, the remaining director elected by such holders voting as a class may choose a successor who shall hold office for the unexpired term in respect of which such vacancy occurred. Whenever the term of office of the directors elected by such holders voting as a class shall end and the special voting rights shall have expired, the number of directors shall be such number as may be provided for in the By-laws irrespective of any increase made pursuant to the provisions hereof.

So long as any shares of the Preferred Stock, Series 2, remain outstanding, the affirmative vote or consent of the holders of at least two-thirds of the shares of the Preferred Stock, Series 2, outstanding at the time (voting as a class with all other series of preferred stock ranking on a parity with the Preferred Stock, Series 2, either as to dividends or the distribution of assets upon liquidation, dissolution or winding up and upon which like voting rights have been conferred and are exercisable), given in person or by proxy, either in writing or at any meeting called for the purpose, shall be necessary to permit, effect or validate any one or more of the following:

(i) the authorization, creation or issuance, or any increase in the authorized or issued amount, of any class or series of stock ranking prior to the Preferred Stock, Series 2, with respect to payment of dividends or the distribution of assets upon liquidation, dissolution or winding up; or

(ii) the amendment, alteration or repeal, whether by merger, consolidation or otherwise, of any of the provisions of the Amended and Restated Certificate of Incorporation, as amended, or of the resolutions set forth in a Certificate of Designations for such Preferred Stock, Series 2, which would adversely affect any right, preference, privilege or voting power of the Preferred Stock, Series 2, or of the holders thereof; provided, however, that any increase in the amount of issued Preferred Stock, Series 2 or authorized preferred stock or the creation and issuance, or an increase in the authorized or issued amount, of other series of preferred stock, in each case ranking on a parity with or junior to the Preferred Stock, Series 2, with respect to the payment of dividends (whether such dividends were cumulative or non-cumulative) and the distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such rights, preferences, privileges or voting powers.

Without the consent of the holders of the Preferred Stock, Series 2, so long as such action does not adversely affect the interests of holders of Preferred Stock, Series 2, the Corporation may amend, alter, supplement or repeal any terms of the Preferred Stock, Series 2:

(i) to cure any ambiguity, or to cure, correct or supplement any provision contained in a Certificate of Designations for such Preferred Stock, Series 2 that may be defective or inconsistent; or

(ii) to make any provision with respect to matters or questions arising with respect to the Preferred Stock, Series 2 that is not inconsistent with the provisions of a Certificate of Designations for such Preferred Stock, Series 2.

The rules and procedures for calling and conducting any meeting of the holders of Preferred Stock, Series 2 (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such a meeting, the obtaining of written consents, and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors of the Corporation, or a duly authorized committee thereof, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of any national securities exchange on which the Preferred Stock, Series 2 are listed at the time.

The foregoing voting provisions shall not apply if, at or prior to the time when the act with respect to which such vote would otherwise be required shall be effected, all outstanding shares of Preferred Stock, Series 2, shall have been redeemed or sufficient funds shall have been deposited in trust to effect such a redemption which is scheduled to be consummated within three months after the time that such rights would otherwise be exercisable.

(7) Record Holders. The Corporation and the transfer agent for the Preferred Stock, Series 2, may deem and treat the record holder of any share of such Preferred Stock as the true and lawful owner thereof for all purposes, and neither the Corporation nor such transfer agent shall be affected by any notice to the contrary.

(8) Ranking. Any class or classes of stock of the Corporation shall be deemed to rank:

(i) on a parity with the Preferred Stock, Series 2, as to dividends or as to distribution of assets upon liquidation, dissolution or winding up, whether or not the dividend rates, dividend payment dates, or redemption or liquidation prices per share thereof be different from those of the Preferred Stock, Series 2, if the holders of such class of stock and the Preferred Stock, Series 2, shall be entitled to the receipt of dividends or of amounts distributable upon liquidation, dissolution or winding up, as the case may be, in proportion to their respective dividend rates (whether cumulative or non-cumulative) or liquidation prices, without preference or priority one over the other; and

(ii) junior to the Preferred Stock, Series 2, as to dividends or as to the distribution of assets upon liquidation, dissolution or winding up, if such stock shall be Common Stock or if the holders of Preferred Stock, Series 2, shall be entitled to receipt of dividends or of amounts distributable upon dissolution, liquidation or winding up, as the case may be, in preference or priority to the holders of shares of such stock.

(iii) The Shares of Preferred Stock of the Corporation designated "Floating Rate Non-Cumulative Preferred Stock, Series 1," "6.375% Non-Cumulative Preferred Stock, Series 3," "Floating Rate Non-Cumulative Preferred Stock, Series 4," "Floating Rate Non-Cumulative Preferred Stock, Series 5," "6.70% Non-Cumulative Perpetual Preferred Stock, Series 6," "6.25% Non-Cumulative Perpetual Preferred Stock, Series 7," "8.625% Non-Cumulative Preferred Stock, Series 8," "Cumulative Redeemable Preferred Stock, Series B," "Floating Rate Non-Cumulative Preferred Stock, Series E," "6.204% Non-Cumulative Preferred Stock, Series D" "Floating Rate Non-Cumulative Preferred Stock, Series F," "Adjustable Rate Non-Cumulative Preferred Stock, Series G," "8.20% Non-Cumulative Preferred Stock, Series H," "6.625% Non-Cumulative Preferred Stock, Series I," "7.25% Non-Cumulative Preferred Stock, Series J," "7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L," "Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K," and "Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M," and any other class or series of stock of the Corporation hereafter authorized that ranks on parity with the Preferred Stock, Series 2, as to dividends and distribution of assets upon liquidation, dissolution or winding up of the Corporation, shall be deemed to rank on a parity with the shares of the Preferred Stock, Series 2, as to dividends and distribution of assets upon the liquidation, dissolution or winding up of the Corporation.

(9) Exclusion of Other Rights. Unless otherwise required by law, shares of Preferred Stock, Series 2, shall not have any rights, including preemptive rights, or preferences other than those specifically set forth herein or as provided by applicable law.

(10) Notices. All notices or communications unless otherwise specified in the By-laws of the Corporation or the Amended and Restated Certificate of Incorporation, as amended, shall be sufficiently given if in writing and delivered in person or by first class mail, postage prepaid. Notice shall be deemed given on the earlier of the date received or the date such notice is mailed.

IN WITNESS WHEREOF, the undersigned, being duly authorized thereto, does hereby affirm, under penalties of perjury, that this certificate is the act and deed of the Corporation and that the facts herein stated are true, and accordingly has hereunto set her hand this 31st day of December, 2008.

BANK OF AMERICA CORPORATION

By: /s/ TERESA M. BRENNER
Name: Teresa M. Brenner
Title: Associate General Counsel

[Signature Page to Certificate of Designations, Series 2]

Exhibit G

Floating Rate Non-Cumulative Preferred Stock, Series 4

BANK OF AMERICA CORPORATION

CERTIFICATE OF DESIGNATIONS

Pursuant to Section 151 of the
General Corporation Law of the State of Delaware

FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES 4
(Par Value \$0.01 Per Share)

Bank of America Corporation, a corporation organized and existing under the General Corporation Law of the State of Delaware (the "Corporation"), hereby certifies that the following resolutions were adopted by the Board of Directors of the Corporation (the "Board of Directors") pursuant to the authority of the Board of Directors as conferred by Section 151 of the General Corporation Law of the State of Delaware, at a meeting duly convened and held on December 9, 2008:

RESOLVED, that pursuant to the authority granted to and vested in the Board of Directors by the Amended and Restated Certificate of Incorporation of the Corporation, the Board of Directors hereby creates a series of the Corporation's previously authorized preferred stock, par value \$0.01 per share (the "Preferred Stock"), and hereby states the designation and number of shares thereof and establishes the voting powers, preferences and relative, participating, optional and other special rights, and the qualifications, limitations and restrictions thereof, as follows:

FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES 4

(1) Number of Shares and Designation. 20,000 shares of the preferred stock, par value \$0.01 per share, of the Corporation are hereby constituted as a series of preferred stock, par value \$0.01 per share, designated as Floating Rate Non-Cumulative Preferred Stock, Series 4 (hereinafter called the "Preferred Stock, Series 4").

(2) Dividends. (a) The holders of shares of the Preferred Stock, Series 4, shall be entitled to receive, as, if and when declared by the Board of Directors of the Corporation (or a duly authorized committee thereof), out of assets of the Corporation legally available under Delaware law for the payment of dividends, non-cumulative cash dividends at the rate set forth below in this Section (2) applied to the amount of \$30,000 per share. Such dividends shall be payable quarterly, in arrears, as, if and when declared by the Board of Directors of the Corporation (or a duly authorized committee thereof), on February 28, May 28, August 28 and November 28 (the "Payment Dates") commencing on February 28, 2009; provided that if any such Payment Date is not a New York Business Day and London Business Day, the Payment Date will be the next succeeding day that is a New York Business Day and London Business Day, unless such day falls in the next calendar month, in which case the Payment Date will be the immediately preceding New York Business Day and London Business Day. Each such dividend shall be payable to the holders of record of shares of the Preferred Stock, Series 4, as they appear on the stock register of the Corporation on such record dates, which shall be a date not more than 30 days nor less than 10 days preceding the applicable Payment Dates, as shall be fixed by the Board of Directors of the Corporation (or a duly authorized committee thereof). "London Business Day" means a day other than a Saturday or Sunday on which dealings in deposits in U.S. dollars are transacted, or with respect to any future date are expected to be transacted, in the London interbank market. A "New York Business Day" means any day that is not a Saturday or Sunday and that, in New York City, is not a day on which banking institutions generally are authorized or obligated by law or executive order to be closed.

(b) (i) Dividend periods ("Dividend Periods") shall commence on each Payment Date (other than the initial Dividend Period which shall be deemed to have commenced on November 28, 2008) and shall end on and exclude the next succeeding Payment Date. The dividend rate on the shares of Preferred Stock, Series 4, for each Dividend Period shall be a floating rate *per annum* equal to three-month U.S. dollar LIBOR plus 0.75%, but in no event will the rate be less than 4.00% *per annum*, of the \$30,000 liquidation preference per share of Preferred Stock, Series 4.

The "three-month U.S. dollar LIBOR", with respect to a Dividend Period, means the rate (expressed as a percentage *per annum*) for deposits in U.S. dollars for a three month period that normally appears on Moneyline Telerate Page 3750, as displayed on page "BBAM" (British Bankers Association Official BBA LIBOR Fixings) in the Bloomberg Professional Service (or any other service that may replace Moneyline Telerate, Inc. on page BBAM or any other page that may replace page BBAM on the Bloomberg Professional Service or a successor service, in each case, for the purpose of displaying London interbank

offered rates of major banks) as of 11:00 a.m. (London time) on the second London Business Day immediately preceding the first day of such Dividend Period.

If three-month U.S. dollar LIBOR cannot be determined as described above, the Corporation will select four major banks in the London interbank market. The Corporation will request that the principal London offices of those four selected banks provide their offered quotations to prime banks in the London interbank market at approximately 11:00 a.m., London time, on the second London Business Day immediately preceding the first day of such Dividend Period. These quotations will be for deposits in U.S. dollars for a three month period. Offered quotations must be based on a principal amount equal to an amount that is representative of a single transaction in U.S. dollars in the market at the time.

If two or more quotations are provided, three-month U.S. dollar LIBOR for the Dividend Period will be the arithmetic mean of the quotations. If fewer than two quotations are provided, the Corporation will select three major banks in New York City and will then determine three-month U.S. dollar LIBOR for the Dividend Period as the arithmetic mean of rates quoted by those three major banks in New York City to leading European banks at approximately 3:00 p.m., New York City time, on the second London Business Day immediately preceding the first day of such Dividend Period. The rates quoted will be for loans in U.S. dollars, for a three month period. Rates quoted must be based on a principal amount equal to an amount that is representative of a single transaction in U.S. dollars in the market at the time. If fewer than three New York City banks selected by the Corporation are quoting rates, three-month U.S. dollar LIBOR for the applicable period will be the same as for the immediately preceding Dividend Period.

(ii) Dividends on the Preferred Stock, Series 4, shall (if and when declared, as herein provided) be computed on the basis of a 360-day year and the actual number of days elapsed in each Dividend Period. Accordingly, the amount of dividends payable per share for each Dividend Period (including the initial Dividend Period) for the Preferred Stock, Series 4 shall (if and when declared, as herein provided) equal the product of (i) the applicable dividend rate, (ii) \$30,000 and (iii) a fraction (A) the numerator of which will be the actual number of days elapsed in such Dividend Period, and (B) the denominator of which will be 360. The amount of dividends payable on the Preferred Stock, Series 4, shall be rounded to the nearest cent, with one-half cent being rounded upwards.

(c) So long as any shares of the Preferred Stock, Series 4 are outstanding, the Corporation may not declare or pay dividends on, make distributions with respect to, or redeem, purchase or acquire (except for purchases by the Corporation or its affiliates in connection with transactions effected by or for the account of customers of the Corporation or customers of any of its subsidiaries or in connection with the distribution or trading of such stock), or make a liquidation payment with respect to the preferred stock of the Corporation of any series and any other stock of the Corporation ranking, as to dividends, on a parity with the Preferred Stock, Series 4 unless for such Dividend Period full dividends on all outstanding shares of Preferred Stock, Series 4 have been declared, paid or set aside for payment. When dividends are not paid in full, as aforesaid, upon the shares of the Preferred Stock, Series 4, and any other preferred stock and other stock of the Corporation ranking on a parity as to dividends with the Preferred Stock, Series 4, all dividends declared upon shares of the Preferred Stock, Series 4, and any other preferred stock and other stock of the Corporation ranking on a parity as to dividends (whether cumulative or non-cumulative) shall be declared *pro rata* so that the amount of dividends declared per share on the Preferred Stock, Series 4, and all such other stock of the Corporation shall in all cases bear to each other the same ratio that accrued dividends per share on the shares of the Preferred Stock, Series 4 (but without, in the case of any non-cumulative preferred stock, accumulation of unpaid dividends for prior Dividend Periods) and all such other stock bear to each other.

(d) So long as any shares of the Preferred Stock, Series 4 are outstanding, the Corporation may not, at any time, declare or pay dividends on, make distributions with respect to, or redeem, purchase or acquire, or make a liquidation payment with respect to, any Common Stock or any other stock of the Corporation ranking as to dividends or distribution of assets junior to the Preferred Stock, Series 4 unless full dividends on all outstanding shares of Preferred Stock, Series 4 have been declared, paid or set aside for payment for the immediately preceding Dividend Period (except for (x) dividends or distributions paid in shares of, or options, warrants or rights to subscribe for or purchase shares of, the Common Stock or other of the Corporation's capital stock ranking junior to Preferred Stock, Series 4 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation, (y) redemptions or purchases of any rights pursuant to the Amended and Restated Rights Agreement, adopted on December 2, 1997 or any agreement that replaces such Amended and Restated Rights Agreement, or by conversion or exchange for the Corporation's capital stock ranking junior to Preferred Stock, Series 4 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation and (z) purchases by the Corporation or its affiliates in connection with transactions effected by or for the account of customers of the Corporation or customers of any of its subsidiaries or in connection with the distribution or trading of such capital stock); provided, however, that the foregoing dividend preference shall not be cumulative and shall not in any way create any claim or right in favor of the holders of Preferred Stock, Series 4 in the event that dividends have not been declared or paid on the Preferred Stock, Series 4 in respect of any prior Dividend Period. If the full dividend on the Preferred Stock, Series 4 is not paid for any Dividend Period, the holders of Preferred Stock, Series 4 will have no claim in respect of the unpaid amount so long as no dividend (other than those

referred to above) is paid on the Common Stock or other of the Corporation's capital stock ranking junior to Preferred Stock, Series 4 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation.

(e) No dividends may be declared or paid or set aside for payment on any shares of Preferred Stock, Series 4 if at the same time any arrears exists in the payment of dividends on any outstanding class or series of stock of the Corporation ranking, as to the payment of dividends, prior to the Preferred Stock, Series 4.

(f) Holders of shares of the Preferred Stock, Series 4, shall not be entitled to any dividends, whether payable in cash, property or stock, in excess of full dividends, as herein provided, on the Preferred Stock, Series 4. No interest, or sum of money in lieu of interest, shall be payable in respect of any dividend payment or payments on the Preferred Stock, Series 4, which may be in arrears.

(3) Liquidation Preference. (a) In the event of any liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary, before any payment or distribution of the assets of the Corporation or proceeds thereof (whether capital or surplus) shall be made to or set apart for the holders of any series or class or classes of stock of the Corporation ranking junior to the Preferred Stock, Series 4, upon liquidation, dissolution, or winding up, the holders of the shares of the Preferred Stock, Series 4, shall be entitled to receive \$30,000 per share plus an amount equal to declared and unpaid dividends, without accumulation of undeclared dividends. If, upon any liquidation, dissolution, or winding up of the Corporation, the assets of the Corporation, or proceeds thereof, distributable among the holders of the shares of the Preferred Stock, Series 4, shall be insufficient to pay in full the preferential amount aforesaid and liquidating payments on any other shares of preferred stock ranking, as to liquidation, dissolution or winding up, on a parity with the Preferred Stock, Series 4, then such assets, or the proceeds thereof, shall be distributed among the holders of shares of Preferred Stock, Series 4, and any such other preferred stock ratably in accordance with the respective amounts which would be payable on such shares of Preferred Stock, Series 4, and any such other preferred stock if all amounts payable thereon were paid in full. For the purposes of this Section (3), neither the sale, lease or exchange (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation, nor the consolidation, merger or combination of the Corporation into or with one or more corporations or the consolidation, merger or combination of any other corporation or entity into or with the Corporation, shall be deemed to be a voluntary or involuntary liquidation, dissolution or winding up of the Corporation for purposes of this Section (3).

(b) After payment shall have been made in full to the holders of Preferred Stock, Series 4, as provided in this Section (3), the holders of Preferred Stock, Series 4 will not be entitled to any further participation in any distribution of assets of the Corporation. Subject to the rights of the holders of shares of any series or class or classes of stock ranking on a parity with or prior to the Preferred Stock, Series 4, upon liquidation, dissolution or winding up, upon any liquidation, dissolution or winding up of the Corporation, after payment shall have been made in full to the holders of Preferred Stock, Series 4, as provided in this Section (3), but not prior thereto, any other series or class or classes of stock ranking junior to the Preferred Stock, Series 4, shall, subject to the respective terms and provisions (if any) applying thereto, be entitled to receive any and all assets remaining to be paid or distributed, and the holders of the Preferred Stock, Series 4, shall not be entitled to share therein.

(4) Redemption. (a) The Preferred Stock, Series 4, may not be redeemed prior to November 28, 2010. On and after November 28, 2010, the Corporation, at its option, may redeem shares of the Preferred Stock, Series 4, as a whole at any time or in part from time to time, at a redemption price of \$30,000 per share, together in each case with declared and unpaid dividends, without accumulation of any undeclared dividends. The Chief Financial Officer or the Treasurer may exercise the Corporation's right to redeem the Preferred Stock, Series 4 as a whole at any time without further action of the Board of Directors or a duly authorized committee thereof. The Corporation may only elect to redeem the Preferred Stock, Series 4 in part pursuant to a resolution by the Board of Directors or a duly authorized committee thereof.

(b) In the event the Corporation shall redeem shares of Preferred Stock, Series 4, notice of such redemption shall be given by first class mail, postage prepaid, mailed not less than 30 days nor more than 60 days prior to the redemption date, to each holder of record of the shares to be redeemed, at such holder's address as the same appears on the stock register of the Corporation. Each such notice shall state: (1) the redemption date; (2) the number of shares of Preferred Stock, Series 4, to be redeemed and, if less than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (3) the redemption price; and (4) the place or places where certificates for such shares are to be surrendered for payment of the redemption price. Notice having been mailed as aforesaid, from and after the redemption date (unless default shall be made by the Corporation in providing money for the payment of the redemption price) said shares shall no longer be deemed to be outstanding, and all rights of the holders thereof as stockholders of the Corporation (except the right to receive from the Corporation the redemption price) shall cease. The Corporation's obligation to provide moneys in accordance with the preceding sentence shall be deemed fulfilled if, on or before the redemption date, the Corporation shall deposit with a bank or trust company (which may be an affiliate of the Corporation) having an office in the Borough of Manhattan, City of New York, having a capital and surplus of at least \$50,000,000, funds necessary for such redemption, in trust, with irrevocable instructions that such funds be applied to the redemption of the shares of Preferred Stock, Series 4, so called for redemption.

Any interest accrued on such funds shall be paid to the Corporation from time to time. Any funds so deposited and unclaimed at the end of two years from such redemption date shall be released or repaid to the Corporation, after which the holder or holders of such shares of Preferred Stock, Series 4, so called for redemption shall look only to the Corporation for payment of the redemption price.

Upon surrender, in accordance with said notice, of the certificates for any such shares so redeemed (properly endorsed or assigned for transfer, if the Board of Directors of the Corporation shall so require and the notice shall so state), such shares shall be redeemed by the Corporation at the applicable redemption price aforesaid. If less than all the outstanding shares of Preferred Stock, Series 4, are to be redeemed, shares to be redeemed shall be selected by the Board of Directors of the Corporation (or a duly authorized committee thereof) from outstanding shares of Preferred Stock, Series 4, not previously called for redemption by lot or *pro rata* or by any other method determined by the Board of Directors of the Corporation (or a duly authorized committee thereof) to be equitable. If fewer than all the shares represented by any certificate are redeemed, a new certificate shall be issued representing the unredeemed shares without charge to the holder thereof.

The Preferred Stock, Series 4 will not be subject to any mandatory redemption, sinking fund or other similar provisions. Holders of Preferred Stock, Series 4 will have no right to require redemption of any shares of Preferred Stock, Series 4.

(5) Terms Dependent on Regulatory Changes. If, (a) the Corporation (by election or otherwise) is subject to any law, rule, regulation or guidance (together, “Regulations”) relating to its capital adequacy which Regulation (x) provides for a type or level of capital characterized as “Tier 1” in, or pursuant to Regulations of any governmental agency, authority or body having regulatory jurisdiction over the Corporation and implementing, the capital standards published by the Basel Committee on Banking Supervision, the Securities and Exchange Commission, the Board of Governors of the Federal Reserve System, or any other United States national governmental agency, authority or body, or (y) provides for a type or level of capital that in the judgment of the Board of Directors (or a duly authorized committee thereof) after consultation with legal counsel of recognized standing is substantially equivalent to such “Tier 1” capital (such capital described in either (x) or (y) is referred to below as “Tier 1 Capital”), and (b) the Board of Directors (or a duly authorized committee thereof) affirmatively elects to qualify the Preferred Stock, Series 4 for such Tier 1 Capital treatment without any sublimit or other quantitative restrictions on the inclusion of such Preferred Stock, Series 4 in Tier 1 Capital (other than any limitation requiring that common equity or a specified form of common equity constitute the dominant form of Tier 1 Capital) under such Regulations, then, upon such affirmative election, the terms of the Preferred Stock, Series 4 shall automatically be amended to reflect the following modifications (without any action or consent by the holders of the Preferred Stock, Series 4 or any other vote of stockholders of the Corporation):

(i) If and to the extent such modification is a Required Unrestricted Tier 1 Provision (as defined below), the Corporation’s right to redeem the Preferred Stock, Series 4 on and after November 28, 2010 pursuant to Section 4 hereof shall be restricted (such restrictions including but not limited to any requirement that the Corporation receive prior approval for such redemption from any applicable governmental agency, authority or body or that such redemption be prohibited);

(ii) If and to the extent such modification is a Required Unrestricted Tier 1 Provision, the Corporation’s right to make distributions with respect to, or redeem, purchase or acquire or make payments on, securities junior to the Preferred Stock, Series 4 (upon a non-payment of dividends on the Preferred Stock, Series 4) shall become subject to additional restrictions (other than those set forth in Section 2(d) hereof) pursuant to the terms of the Preferred Stock, Series 4; and

(iii) If and to the extent such modification is a Required Unrestricted Tier 1 Provision, any other new provisions or terms shall be added to the Preferred Stock, Series 4, or existing terms shall be modified; provided, however, that no such provision or term shall be added, and no such modification shall be made pursuant to the terms of this Section 5(iii), if it would alter or change the rights, powers or preferences of the shares of the Preferred Stock, Series 4 so as to affect the shares of the Preferred Stock, Series 4 adversely.

As used above, the term “Required Unrestricted Tier 1 Provision” means a term which is, in the written opinion of legal counsel of recognized standing and delivered to the Corporation, required for the Preferred Stock, Series 4 to be treated as Tier 1 Capital of the Corporation without any sublimit or other quantitative restriction on the inclusion of such Preferred Stock, Series 4 in Tier 1 Capital (other than any limitation requiring that common equity or a specified form of common equity constitute the dominant form of Tier 1 Capital) pursuant to the applicable Regulations. The Corporation shall provide notice to holders of any Preferred Stock, Series 4 of any such changes in the terms of the Preferred Stock, Series 4 made pursuant to the terms of this Section 5 on or about the date of effectiveness of any such modification and shall maintain a copy of such notice on file at the principal offices of the Corporation. A copy of the relevant Regulations shall also be on file at the principal offices of the Corporation and, upon request, will be made available to such holders.

For the avoidance of doubt, “amend”, “modify”, “change” and words of similar effect used in this Section (5) mean that the Preferred Stock, Series 4 shall have such additional or different rights, powers and preferences, and such qualifications,

limitations and restrictions as may be established by the Board of directors (or a duly authorized committee thereof) pursuant to this Section (5), subject to the limitations set forth herein.

(6) Voting Rights. The Preferred Stock, Series 4, shall have no voting rights, except as hereinafter set forth or as otherwise from time to time required by law.

The holders of the Preferred Stock shall be entitled to vote on all matters submitted to a vote of the holders of Common Stock of the Corporation, voting together with the holders of Common Stock as one class. Each share of Preferred Stock shall be entitled to 150 votes.

Whenever dividends payable on the Preferred Stock, Series 4, have not been declared or paid for such number of Dividend Periods, whether or not consecutive, which in the aggregate is equivalent to six Dividend Periods (a “Nonpayment”), the holders of outstanding shares of the Preferred Stock, Series 4, shall have the exclusive right, voting as a class with holders of shares of all other series of preferred stock ranking on a parity with the Preferred Stock, Series 4, either as to dividends or the distribution of assets upon liquidation, dissolution or winding up and upon which like voting rights have been conferred and are exercisable (to the extent such other series of preferred stock are entitled to vote pursuant to the terms thereof), to vote for the election of two additional directors at the next annual meeting of stockholders and at each subsequent annual meeting of stockholders on the terms set forth below. At elections for such directors, each holder of the Preferred Stock, Series 4, shall be entitled to three votes for each share of Preferred Stock, Series 4 held (the holders of shares of any other series of preferred stock ranking on such a parity being entitled to such number of votes, if any, for each share of stock held as may be granted to them). Upon the vesting of such right of such holders, the maximum authorized number of members of the Board of Directors shall automatically be increased by two and the two vacancies so created shall be filled by vote of the holders of such outstanding shares of Preferred Stock, Series 4, (either alone or together with the holders of shares of all other series of preferred stock ranking on such a parity) as hereinafter set forth. The right of such holders of such shares of the Preferred Stock, Series 4, voting as a class with holders of shares of all other series of preferred stock ranking on such a parity, to elect members of the Board of Directors of the Corporation as aforesaid shall continue until all dividends on such shares of Preferred Stock, Series 4, shall have been paid in full for at least four Dividend Periods following the Nonpayment. Upon payment in full of such dividends, such voting rights shall terminate except as expressly provided by law, subject to re-vesting in the event of each and every subsequent Nonpayment in the payment of dividends as aforesaid.

Upon termination of the right of the holders of the Preferred Stock, Series 4, to vote for directors as provided in the previous paragraph, the term of office of all directors then in office elected by such holders will terminate immediately. If the office of any director elected by such holders voting as a class becomes vacant by reason of death, resignation, retirement, disqualification, removal from office or otherwise, the remaining director elected by such holders voting as a class may choose a successor who shall hold office for the unexpired term in respect of which such vacancy occurred. Whenever the term of office of the directors elected by such holders voting as a class shall end and the special voting rights shall have expired, the number of directors shall be such number as may be provided for in the By-laws irrespective of any increase made pursuant to the provisions hereof.

So long as any shares of the Preferred Stock, Series 4, remain outstanding, the affirmative vote or consent of the holders of at least two-thirds of the shares of the Preferred Stock, Series 4, outstanding at the time (voting as a class with all other series of preferred stock ranking on a parity with the Preferred Stock, Series 4, either as to dividends or the distribution of assets upon liquidation, dissolution or winding up and upon which like voting rights have been conferred and are exercisable), given in person or by proxy, either in writing or at any meeting called for the purpose, shall be necessary to permit, effect or validate any one or more of the following:

(i) the authorization, creation or issuance, or any increase in the authorized or issued amount, of any class or series of stock ranking prior to the Preferred Stock, Series 4, with respect to payment of dividends or the distribution of assets upon liquidation, dissolution or winding up; or

(ii) the amendment, alteration or repeal, whether by merger, consolidation or otherwise, of any of the provisions of the Amended and Restated Certificate of Incorporation, as amended, or of the resolutions set forth in a Certificate of Designations for such Preferred Stock, Series 4, which would adversely affect any right, preference, privilege or voting power of the Preferred Stock, Series 4, or of the holders thereof; provided, however, that any increase in the amount of issued Preferred Stock, Series 4 or authorized preferred stock or the creation and issuance, or an increase in the authorized or issued amount, of other series of preferred stock, in each case ranking on a parity with or junior to the Preferred Stock, Series 4, with respect to the payment of dividends (whether such dividends were cumulative or non-cumulative) and the distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such rights, preferences, privileges or voting powers.

Without the consent of the holders of the Preferred Stock, Series 4, so long as such action does not adversely affect the interests of holders of Preferred Stock, Series 4, the Corporation may amend, alter, supplement or repeal any terms of the Preferred Stock, Series 4:

(i) to cure any ambiguity, or to cure, correct or supplement any provision contained in a Certificate of Designations for such Preferred Stock, Series 4 that may be defective or inconsistent; or

(ii) to make any provision with respect to matters or questions arising with respect to the Preferred Stock, Series 4 that is not inconsistent with the provisions of a Certificate of Designations for such Preferred Stock, Series 4.

The rules and procedures for calling and conducting any meeting of the holders of Preferred Stock, Series 4 (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such a meeting, the obtaining of written consents, and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors of the Corporation, or a duly authorized committee thereof, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of any national securities exchange on which the Preferred Stock, Series 4 are listed at the time.

The foregoing voting provisions shall not apply if, at or prior to the time when the act with respect to which such vote would otherwise be required shall be effected, all outstanding shares of Preferred Stock, Series 4, shall have been redeemed or sufficient funds shall have been deposited in trust to effect such a redemption which is scheduled to be consummated within three months after the time that such rights would otherwise be exercisable.

(7) Record Holders. The Corporation and the transfer agent for the Preferred Stock, Series 4, may deem and treat the record holder of any share of such Preferred Stock as the true and lawful owner thereof for all purposes, and neither the Corporation nor such transfer agent shall be affected by any notice to the contrary.

(8) Ranking. Any class or classes of stock of the Corporation shall be deemed to rank:

(i) on a parity with the Preferred Stock, Series 4, as to dividends or as to distribution of assets upon liquidation, dissolution or winding up, whether or not the dividend rates, dividend payment dates, or redemption or liquidation prices per share thereof be different from those of the Preferred Stock, Series 4, if the holders of such class of stock and the Preferred Stock, Series 4, shall be entitled to the receipt of dividends or of amounts distributable upon liquidation, dissolution or winding up, as the case may be, in proportion to their respective dividend rates (whether cumulative or non-cumulative) or liquidation prices, without preference or priority one over the other; and

(ii) junior to the Preferred Stock, Series 4, as to dividends or as to the distribution of assets upon liquidation, dissolution or winding up, if such stock shall be Common Stock or if the holders of Preferred Stock, Series 4, shall be entitled to receipt of dividends or of amounts distributable upon dissolution, liquidation or winding up, as the case may be, in preference or priority to the holders of shares of such stock.

(iii) The Shares of Preferred Stock of the Corporation designated "Floating Rate Non-Cumulative Preferred Stock, Series 1" and "Floating Rate Non-Cumulative Preferred Stock, Series 2" and the Shares of Preferred Stock of the Corporation designated "6.375% Non-Cumulative Preferred Stock, Series 3," "Floating Rate Non-Cumulative Preferred Stock, Series 5," "6.70% Non-Cumulative Perpetual Preferred Stock, Series 6," "6.25% Non-Cumulative Perpetual Preferred Stock, Series 7," "8.625% Non-Cumulative Preferred Stock, Series 8," "Cumulative Redeemable Preferred Stock, Series B," "Floating Rate Non-Cumulative Preferred Stock, Series E," "6.204% Non-Cumulative Preferred Stock, Series D" "Floating Rate Non-Cumulative Preferred Stock, Series F," "Adjustable Rate Non-Cumulative Preferred Stock, Series G," "8.20% Non-Cumulative Preferred Stock, Series H," "6.625% Non-Cumulative Preferred Stock, Series I," "7.25% Non-Cumulative Preferred Stock, Series J," "7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L," "Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K," and "Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M," and any other class or series of stock of the Corporation hereafter authorized that ranks on parity with the Preferred Stock, Series 4, as to dividends and distribution of assets upon liquidation, dissolution or winding up of the Corporation, shall be deemed to rank on a parity with the shares of the Preferred Stock, Series 4, as to dividends and distribution of assets upon the liquidation, dissolution or winding up of the Corporation.

(9) Exclusion of Other Rights. Unless otherwise required by law, shares of Preferred Stock, Series 4, shall not have any rights, including preemptive rights, or preferences other than those specifically set forth herein or as provided by applicable law.

(10) Notices. All notices or communications unless otherwise specified in the By-laws of the Corporation or the Amended and Restated Certificate of Incorporation, as amended, shall be sufficiently given if in writing and delivered in person or by first class mail, postage prepaid. Notice shall be deemed given on the earlier of the date received or the date such notice is mailed.

IN WITNESS WHEREOF, the undersigned, being duly authorized thereto, does hereby affirm, under penalties of perjury, that this certificate is the act and deed of the Corporation and that the facts herein stated are true, and accordingly has hereunto set her hand this 31st day of December, 2008.

BANK OF AMERICA CORPORATION

By: /s/ TERESA M. BRENNER

Name: Teresa M. Brenner

Title: Associate General Counsel

[Signature Page to Certificate of Designations, Series 4]

Exhibit H

Floating Rate Non-Cumulative Preferred Stock, Series 5

BANK OF AMERICA CORPORATION

CERTIFICATE OF DESIGNATIONS

Pursuant to Section 151 of the
General Corporation Law of the State of Delaware

**FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES 5
(Par Value \$0.01 Per Share)**

Bank of America Corporation, a corporation organized and existing under the General Corporation Law of the State of Delaware (the "Corporation"), hereby certifies that the following resolutions were adopted by the Board of Directors of the Corporation (the "Board of Directors") pursuant to the authority of the Board of Directors as conferred by Section 151 of the General Corporation Law of the State of Delaware, at a meeting duly convened and held on December 9, 2008:

RESOLVED, that pursuant to the authority granted to and vested in the Board of Directors by the Amended and Restated Certificate of Incorporation of the Corporation, the Board of Directors hereby creates a series of the Corporation's previously authorized preferred stock, par value \$0.01 per share (the "Preferred Stock"), and hereby states the designation and number of shares thereof and establishes the voting powers, preferences and relative, participating, optional and other special rights, and the qualifications, limitations and restrictions thereof, as follows:

FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES 5

(1) Number of Shares and Designation. 50,000 shares of the preferred stock, par value \$0.01 per share, of the Corporation are hereby constituted as a series of preferred stock, par value \$0.01 per share, designated as Floating Rate Non-Cumulative Preferred Stock, Series 5 (hereinafter called the "Preferred Stock, Series 5").

(2) Dividends. (a) The holders of shares of the Preferred Stock, Series 5, shall be entitled to receive, as, if and when declared by the Board of Directors of the Corporation (or a duly authorized committee thereof), out of assets of the Corporation legally available under Delaware law for the payment of dividends, non-cumulative cash dividends at the rate set forth below in this Section (2) applied to the amount of \$30,000 per share. Such dividends shall be payable quarterly, in arrears, as, if and when declared by the Board of Directors of the Corporation (or a duly authorized committee thereof), on February 21, May 21, August 21 and November 21 (the "Payment Dates") commencing on February 21, 2009; provided that if any such Payment Date is not a New York Business Day and London Business Day, the Payment Date will be the next succeeding day that is a New York Business Day and London Business Day, unless such day falls in the next calendar month, in which case the Payment Date will be the immediately preceding New York Business Day and London Business Day. Each such dividend shall be payable to the holders of record of shares of the Preferred Stock, Series 5, as they appear on the stock register of the Corporation on such record dates, which shall be a date not more than 30 days nor less than 10 days preceding the applicable Payment Dates, as shall be fixed by the Board of Directors of the Corporation (or a duly authorized committee thereof). "London Business Day" means any day other than a Saturday or Sunday on which dealings in deposits in U.S. dollars are transacted, or with respect to any future date are expected to be transacted, in the London interbank market. A "New York Business Day" means any day that is not a Saturday or Sunday and that, in New York City, is not a day on which banking institutions generally are authorized or obligated by law or executive order to be closed.

(b) (i) Dividend periods ("Dividend Periods") shall commence on each Payment Date (other than the initial Dividend Period which shall be deemed to have commenced on November 21, 2008) and shall end on and exclude the next succeeding Payment Date. The dividend rate on the shares of Preferred Stock, Series 5 for each Dividend Period shall be a floating rate per annum equal to three-month U.S. dollar LIBOR plus .50%, but in no event will the rate be less than 4.00% per annum, of the \$30,000 liquidation preference per share of Preferred Stock, Series 5.

The "three-month U.S. dollar LIBOR", with respect to a Dividend Period, means the rate (expressed as a percentage per annum) for deposits in U.S. dollars for a three month period that normally appears on Telerate Page 3750, as displayed on page "BBAM" (British Bankers Association Official BBA LIBOR Fixings) in the Bloomberg Professional Service (or any other service that may replace Telerate, Inc. on page BBAM or any other page that may replace page BBAM on the Bloomberg Professional Service or a successor service, in each case, for the purpose of displaying London interbank offered

rates of major banks) as of 11:00 a.m. (London time) on the second London Business Day immediately preceding the first day of such Dividend Period.

If three-month U.S. dollar LIBOR cannot be determined as described above, the Corporation will select four major banks in the London interbank market. The Corporation will request that the principal London offices of those four selected banks provide their offered quotations to prime banks in the London interbank market at approximately 11:00 a.m., London time, on the second London Business Day immediately preceding the first day of such Dividend Period. These quotations will be for deposits in U.S. dollars for a three month period. Offered quotations must be based on a principal amount equal to an amount that is representative of a single transaction in U.S. dollars in the market at the time.

If two or more quotations are provided, three-month U.S. dollar LIBOR for the Dividend Period will be the arithmetic mean of the quotations. If fewer than two quotations are provided, the Corporation will select three major banks in New York City and will then determine three-month U.S. dollar LIBOR for the Dividend Period as the arithmetic mean of rates quoted by those three major banks in New York City to leading European banks at approximately 3:00 p.m., New York City time, on the second London Business Day immediately preceding the first day of such Dividend Period. The rates quoted will be for loans in U.S. dollars, for a three month period. Rates quoted must be based on a principal amount equal to an amount that is representative of a single transaction in U.S. dollars in the market at the time. If fewer than three New York City banks selected by the Corporation are quoting rates, three-month U.S. dollar LIBOR for the applicable period will be the same as for the immediately preceding Dividend Period.

(ii) Dividends on the Preferred Stock, Series 5, shall (if and when declared, as herein provided) be computed on the basis of a 360-day year and the actual number of days elapsed in each Dividend Period. Accordingly, the amount of dividends payable per share for each Dividend Period (including the initial Dividend Period) for the Preferred Stock, Series 5 shall (if and when declared, as herein provided) equal the product of (i) the applicable dividend rate, (ii) \$30,000 and (iii) a fraction (A) the numerator of which will be the actual number of days elapsed in such Dividend Period, and (B) the denominator of which will be 360. The amount of dividends payable on the Preferred Stock, Series 5, shall be rounded to the nearest cent, with one-half cent being rounded upwards.

(c) So long as any shares of the Preferred Stock, Series 5 are outstanding, the Corporation may not declare or pay dividends on, make distributions with respect to, or redeem, purchase or acquire (except for purchases by the Corporation or its affiliates in connection with transactions effected by or for the account of customers of the Corporation or customers of any of its subsidiaries or in connection with the distribution or trading of such stock), or make a liquidation payment with respect to the preferred stock of the Corporation of any series and any other stock of the Corporation ranking, as to dividends, on a parity with the Preferred Stock, Series 5 unless for such Dividend Period full dividends on all outstanding shares of Preferred Stock, Series 5 have been declared, paid or set aside for payment. When dividends are not paid in full, as aforesaid, upon the shares of the Preferred Stock, Series 5, and any other preferred stock and other stock of the Corporation ranking on a parity as to dividends with the Preferred Stock, Series 5, all dividends declared upon shares of the Preferred Stock, Series 5, and any other preferred stock and other stock of the Corporation ranking on a parity as to dividends (whether cumulative or non-cumulative) shall be declared pro rata so that the amount of dividends declared per share on the Preferred Stock, Series 5, and all such other stock of the Corporation shall in all cases bear to each other the same ratio that accrued dividends per share on the shares of the Preferred Stock, Series 5 (but without, in the case of any non-cumulative preferred stock, accumulation of unpaid dividends for prior Dividend Periods) and all such other stock bear to each other.

(d) So long as any shares of the Preferred Stock, Series 5 are outstanding, the Corporation may not, at any time, declare or pay dividends on, make distributions with respect to, or redeem, purchase or acquire, or make a liquidation payment with respect to, any Common Stock or any other stock of the Corporation ranking as to dividends or distribution of assets junior to the Preferred Stock, Series 5 unless full dividends on all outstanding shares of Preferred Stock, Series 5 have been declared, paid or set aside for payment for the immediately preceding Dividend Period (except for (x) dividends or distributions paid in shares of, or options, warrants or rights to subscribe for or purchase shares of, the Common Stock or other of the Corporation's capital stock ranking junior to Preferred Stock, Series 5 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation, (y) redemptions or purchases of any rights pursuant to the Amended and Restated Rights Agreement, adopted on December 2, 1997 or any agreement that replaces such Amended and Restated Rights Agreement, or by conversion or exchange for the Corporation's capital stock ranking junior to Preferred Stock, Series 5 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation and (z) purchases by the Corporation or its affiliates in connection with transactions effected by or for the account of customers of the Corporation or customers of any of its subsidiaries or in connection with the distribution or trading of such capital stock); provided, however, that the foregoing dividend preference shall not be cumulative and shall not in any way create any claim or right in favor of the holders of Preferred Stock, Series 5 in the event that dividends have not been declared or paid on the Preferred Stock, Series 5 in respect of any prior Dividend Period. If the full dividend on the Preferred Stock, Series 5 is not paid for any Dividend Period, the holders of Preferred Stock, Series 5 will have no claim in respect of the unpaid amount so long as no dividend

(other than those referred to above) is paid on the Common Stock or other of the Corporation's capital stock ranking junior to Preferred Stock, Series 5 as to dividends and distribution of assets upon dissolution, liquidation or winding up of the Corporation.

(e) No dividends may be declared or paid or set aside for payment on any shares of Preferred Stock, Series 5 if at the same time any arrears exists in the payment of dividends on any outstanding class or series of stock of the Corporation ranking, as to the payment of dividends, prior to the Preferred Stock, Series 5.

(f) Holders of shares of the Preferred Stock, Series 5, shall not be entitled to any dividends, whether payable in cash, property or stock, in excess of full dividends, as herein provided, on the Preferred Stock, Series 5. No interest, or sum of money in lieu of interest, shall be payable in respect of any dividend payment or payments on the Preferred Stock, Series 5, which may be in arrears.

(3) Liquidation Preference. (a) In the event of any liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary, before any payment or distribution of the assets of the Corporation or proceeds thereof (whether capital or surplus) shall be made to or set apart for the holders of any series or class or classes of stock of the Corporation ranking junior to the Preferred Stock, Series 5, upon liquidation, dissolution, or winding up, the holders of the shares of the Preferred Stock, Series 5, shall be entitled to receive \$30,000 per share plus an amount equal to declared and unpaid dividends, without accumulation of undeclared dividends. If, upon any liquidation, dissolution, or winding up of the Corporation, the assets of the Corporation, or proceeds thereof, distributable among the holders of the shares of the Preferred Stock, Series 5, shall be insufficient to pay in full the preferential amount aforesaid and liquidating payments on any other shares of preferred stock ranking, as to liquidation, dissolution or winding up, on a parity with the Preferred Stock, Series 5, then such assets, or the proceeds thereof, shall be distributed among the holders of shares of Preferred Stock, Series 5, and any such other preferred stock ratably in accordance with the respective amounts which would be payable on such shares of Preferred Stock, Series 5, and any such other preferred stock if all amounts payable thereon were paid in full. For the purposes of this Section (3), neither the sale, lease or exchange (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation, nor the consolidation, merger or combination of the Corporation into or with one or more corporations or the consolidation, merger or combination of any other corporation or entity into or with the Corporation, shall be deemed to be a voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

(b) After payment shall have been made in full to the holders of Preferred Stock, Series 5, as provided in this Section (3), the holders of Preferred Stock, Series 5 will not be entitled to any further participation in any distribution of assets of the Corporation. Subject to the rights of the holders of shares of any series or class or classes of stock ranking on a parity with or prior to the Preferred Stock, Series 5, upon liquidation, dissolution or winding up, upon any liquidation, dissolution or winding up of the Corporation, after payment shall have been made in full to the holders of Preferred Stock, Series 5, as provided in this Section (3), but not prior thereto, any other series or class or classes of stock ranking junior to the Preferred Stock, Series 5, shall, subject to the respective terms and provisions (if any) applying thereto, be entitled to receive any and all assets remaining to be paid or distributed, and the holders of the Preferred Stock, Series 5, shall not be entitled to share therein.

(4) Redemption. (a) The Preferred Stock, Series 5, may not be redeemed prior to May 21, 2012. On and after May 21, 2012, the Corporation, at its option, may redeem shares of the Preferred Stock, Series 5, as a whole at any time or in part from time to time, at a redemption price of \$30,000 per share, together in each case with declared and unpaid dividends, without accumulation of any undeclared dividends. The Chief Financial Officer or the Treasurer may exercise the Corporation's right to redeem the Preferred Stock, Series 5 as a whole at any time without further action of the Board of Directors or a duly authorized committee thereof. The Corporation may only elect to redeem the Preferred Stock, Series 5 in part pursuant to a resolution by the Board of Directors or a duly authorized committee thereof.

(b) In the event the Corporation shall redeem shares of Preferred Stock, Series 5, notice of such redemption shall be given by first class mail, postage prepaid, mailed not less than 30 days nor more than 60 days prior to the redemption date, to each holder of record of the shares to be redeemed, at such holder's address as the same appears on the stock register of the Corporation. Each such notice shall state: (1) the redemption date; (2) the number of shares of Preferred Stock, Series 5, to be redeemed and, if less than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (3) the redemption price; and (4) the place or places where certificates for such shares are to be surrendered for payment of the redemption price. Notice having been mailed as aforesaid, from and after the redemption date (unless default shall be made by the Corporation in providing money for the payment of the redemption price) said shares shall no longer be deemed to be outstanding, and all rights of the holders thereof as stockholders of the Corporation (except the right to receive from the Corporation the redemption price) shall cease. The Corporation's obligation to provide moneys in accordance with the preceding sentence shall be deemed fulfilled if, on or before the redemption date, the Corporation shall deposit with a bank or trust company (which may be an affiliate of the Corporation) having an office in the Borough of Manhattan, City of New York, having a capital and surplus of at least \$50,000,000, funds necessary for such redemption, in trust, with irrevocable

instructions that such funds be applied to the redemption of the shares of Preferred Stock, Series 5, so called for redemption. Any interest accrued on such funds shall be paid to the Corporation from time to time. Any funds so deposited and unclaimed at the end of two years from such redemption date shall be released or repaid to the Corporation, after which the holder or holders of such shares of Preferred Stock, Series 5, so called for redemption shall look only to the Corporation for payment of the redemption price.

Upon surrender, in accordance with said notice, of the certificates for any such shares so redeemed (properly endorsed or assigned for transfer, if the Board of Directors of the Corporation shall so require and the notice shall so state), such shares shall be redeemed by the Corporation at the applicable redemption price aforesaid. If less than all the outstanding shares of Preferred Stock, Series 5, are to be redeemed, shares to be redeemed shall be selected by the Board of Directors of the Corporation (or a duly authorized committee thereof) from outstanding shares of Preferred Stock, Series 5, not previously called for redemption by lot or *pro rata* or by any other method determined by the Board of Directors of the Corporation (or a duly authorized committee thereof) to be equitable. If fewer than all the shares represented by any certificate are redeemed, a new certificate shall be issued representing the unredeemed shares without charge to the holder thereof.

The Preferred Stock, Series 5 will not be subject to any mandatory redemption, sinking fund or other similar provisions. Holders of Preferred Stock, Series 5 will have no right to require redemption of any shares of Preferred Stock, Series 5.

(5) Terms Dependent on Regulatory Changes. If, (a) the Corporation (by election or otherwise) is subject to any law, rule, regulation or guidance (together, “Regulations”) relating to its capital adequacy which Regulation (x) provides for a type or level of capital characterized as “Tier 1” in, or pursuant to Regulations of any governmental agency, authority or body having regulatory jurisdiction over the Corporation and implementing, the capital standards published by the Basel Committee on Banking Supervision, the Securities and Exchange Commission, the Board of Governors of the Federal Reserve System, or any other United States national governmental agency, authority or body, or (y) provides for a type or level of capital that in the judgment of the Board of Directors (or a duly authorized committee thereof) after consultation with legal counsel of recognized standing is substantially equivalent to such “Tier 1” capital (such capital described in either (x) or (y) is referred to below as “Tier 1 Capital”), and (b) the Board of Directors (or a duly authorized committee thereof) affirmatively elects to qualify the Preferred Stock, Series 5 for such Tier 1 Capital treatment without any sublimit or other quantitative restrictions on the inclusion of such Preferred Stock, Series 5 in Tier 1 Capital (other than any limitation requiring that common equity or a specified form of common equity constitute the dominant form of Tier 1 Capital) under such Regulations, then, upon such affirmative election, the terms of the Preferred Stock, Series 5 shall automatically be amended to reflect the following modifications (without any action or consent by the holders of the Preferred Stock, Series 5 or any other vote of stockholders of the Corporation):

(i) If and to the extent such modification is a Required Unrestricted Tier 1 Provision (as defined below), the Corporation’s right to redeem the Preferred Stock, Series 5 on and after May 21, 2012 pursuant to Section 5 hereof shall be restricted (such restrictions including but not limited to any requirement that the Corporation receive prior approval for such redemption from any applicable governmental agency, authority or body or that such redemption be prohibited);

(ii) If and to the extent such modification is a Required Unrestricted Tier 1 Provision, the Corporation’s right to make distributions with respect to, or redeem, purchase or acquire or make payments on, securities junior to the Preferred Stock, Series 5 (upon a non-payment of dividends on the Preferred Stock, Series 5) shall become subject to additional restrictions (other than those set forth in Section 2(d) hereof) pursuant to the terms of the Preferred Stock, Series 5; and

(iii) If and to the extent such modification is a Required Unrestricted Tier 1 Provision, any other new provisions or terms shall be added to the Preferred Stock, Series 5, or existing terms shall be modified; provided, however, that no such provision or term shall be added, and no such modification shall be made pursuant to the terms of this Section 5(iii), if it would alter or change the rights, powers or preferences of the shares of the Preferred Stock, Series 5 so as to affect the shares of the Preferred Stock, Series 5 adversely.

As used above, the term “Required Unrestricted Tier 1 Provision” means a term which is, in the written opinion of legal counsel of recognized standing and delivered to the Corporation, required for the Preferred Stock, Series 5 to be treated as Tier 1 Capital of the Corporation without any sublimit or other quantitative restriction on the inclusion of such Preferred Stock, Series 5 in Tier 1 Capital (other than any limitation requiring that common equity or a specified form of common equity constitute the dominant form of Tier 1 Capital) pursuant to the applicable Regulations. The Corporation shall provide notice to holders of any Preferred Stock, Series 5 of any such changes in the terms of the Preferred Stock, Series 5 made pursuant to the terms of this Section 5 on or about the date of effectiveness of any such modification and shall maintain a copy of such notice on file at the principal offices of the Corporation. A copy of the relevant Regulations shall also be on file at the principal offices of the Corporation and, upon request, will be made available to such holders.

For the avoidance of doubt, “amend”, “modify”, “change” and words of similar effect used in this Section (5) mean that the Preferred Stock, Series 5 shall have such additional or different rights, powers and preferences, and such qualifications, limitations and restrictions as may be established by the Board of Directors (or a duly authorized committee thereof) pursuant to this Section (5), subject to the limitations set forth herein.

(6) Voting Rights. The Preferred Stock, Series 5, shall have no voting rights, except as hereinafter set forth or as otherwise from time to time required by law.

The holders of the Preferred Stock shall be entitled to vote on all matters submitted to a vote of the holders of Common Stock of the Corporation, voting together with the holders of Common Stock as one class. Each share of Preferred Stock shall be entitled to 150 votes.

Whenever dividends payable on the Preferred Stock, Series 5, have not been declared or paid for such number of Dividend Periods, whether or not consecutive, which in the aggregate is equivalent to six Dividend Periods (a “Nonpayment”), the holders of outstanding shares of the Preferred Stock, Series 5, shall have the exclusive right, voting as a class with holders of shares of all other series of preferred stock ranking on a parity with the Preferred Stock, Series 5, either as to dividends or the distribution of assets upon liquidation, dissolution or winding up and upon which like voting rights have been conferred and are exercisable (to the extent such other series of preferred stock are entitled to vote pursuant to the terms thereof), to vote for the election of two additional directors at the next annual meeting of stockholders and at each subsequent annual meeting of stockholders on the terms set forth below. At elections for such directors, each holder of the Preferred Stock, Series 5, shall be entitled to three votes for each share of Preferred Stock, Series 5 held (the holders of shares of any other series of preferred stock ranking on such a parity being entitled to such number of votes, if any, for each share of stock held as may be granted to them). Upon the vesting of such right of such holders, the maximum authorized number of members of the Board of Directors shall automatically be increased by two and the two vacancies so created shall be filled by vote of the holders of such outstanding shares of Preferred Stock, Series 5, (either alone or together with the holders of shares of all other series of preferred stock ranking on such a parity) as hereinafter set forth. The right of such holders of such shares of the Preferred Stock, Series 5, voting as a class with holders of shares of all other series of preferred stock ranking on such a parity, to elect members of the Board of Directors of the Corporation as aforesaid shall continue until all dividends on such shares of Preferred Stock, Series 5, shall have been paid in full for at least four Dividend Periods following the Nonpayment. Upon payment in full of such dividends, such voting rights shall terminate except as expressly provided by law, subject to re-vesting in the event of each and every subsequent Nonpayment in the payment of dividends as aforesaid.

Upon termination of the right of the holders of the Preferred Stock, Series 5, to vote for directors as provided in the previous paragraph, the term of office of all directors then in office elected by such holders will terminate immediately. If the office of any director elected by such holders voting as a class becomes vacant by reason of death, resignation, retirement, disqualification, removal from office or otherwise, the remaining director elected by such holders voting as a class may choose a successor who shall hold office for the unexpired term in respect of which such vacancy occurred. Whenever the term of office of the directors elected by such holders voting as a class shall end and the special voting rights shall have expired, the number of directors shall be such number as may be provided for in the By-laws irrespective of any increase made pursuant to the provisions hereof.

So long as any shares of the Preferred Stock, Series 5, remain outstanding, the affirmative vote or consent of the holders of at least two-thirds of the shares of the Preferred Stock, Series 5, outstanding at the time (voting as a class with all other series of preferred stock ranking on a parity with the Preferred Stock, Series 5, either as to dividends or the distribution of assets upon liquidation, dissolution or winding up and upon which like voting rights have been conferred and are exercisable), given in person or by proxy, either in writing or at any meeting called for the purpose, shall be necessary to permit, effect or validate any one or more of the following:

- (i) the authorization, creation or issuance, or any increase in the authorized or issued amount, of any class or series of stock ranking prior to the Preferred Stock, Series 5, with respect to payment of dividends or the distribution of assets upon liquidation, dissolution or winding up; or
- (ii) the amendment, alteration or repeal, whether by merger, consolidation or otherwise, of any of the provisions of the Amended and Restated Certificate of Incorporation, as amended, or of the resolutions set forth in a Certificate of Designations for such Preferred Stock, Series 5, which would adversely affect any right, preference, privilege or voting power of the Preferred Stock, Series 5, or of the holders thereof; provided, however, that any increase in the amount of issued Preferred Stock, Series 5 or authorized preferred stock or the creation and issuance, or an increase in the authorized or issued amount, of other series of preferred stock, in each case ranking on a parity with or junior to the Preferred Stock, Series 5, with respect to the payment of dividends (whether such dividends were cumulative or non-cumulative) and the distribution of assets

upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such rights, preferences, privileges or voting powers.

Without the consent of the holders of the Preferred Stock, Series 5, so long as such action does not adversely affect the interests of holders of Preferred Stock, Series 5, the Corporation may amend, alter, supplement or repeal any terms of the Preferred Stock, Series 5:

(i) to cure any ambiguity, or to cure, correct or supplement any provision contained in a Certificate of Designations for such Preferred Stock, Series 5 that may be defective or inconsistent; or

(ii) to make any provision with respect to matters or questions arising with respect to the Preferred Stock, Series 5 that is not inconsistent with the provisions of a Certificate of Designations for such Preferred Stock, Series 5.

The rules and procedures for calling and conducting any meeting of the holders of Preferred Stock, Series 5 (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such a meeting, the obtaining of written consents, and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors of the Corporation, or a duly authorized committee thereof, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of any national securities exchange on which the Preferred Stock, Series 5 are listed at the time.

The foregoing voting provisions shall not apply if, at or prior to the time when the act with respect to which such vote would otherwise be required shall be effected, all outstanding shares of Preferred Stock, Series 5, shall have been redeemed or sufficient funds shall have been deposited in trust to effect such a redemption which is scheduled to be consummated within three months after the time that such rights would otherwise be exercisable.

(7) Record Holders. The Corporation and the transfer agent for the Preferred Stock, Series 5, may deem and treat the record holder of any share of such Preferred Stock as the true and lawful owner thereof for all purposes, and neither the Corporation nor such transfer agent shall be affected by any notice to the contrary.

(8) Ranking. Any class or classes of stock of the Corporation shall be deemed to rank:

(i) on a parity with the Preferred Stock, Series 5, as to dividends or as to distribution of assets upon liquidation, dissolution or winding up, whether or not the dividend rates, dividend payment dates, or redemption or liquidation prices per share thereof be different from those of the Preferred Stock, Series 5, if the holders of such class of stock and the Preferred Stock, Series 5, shall be entitled to the receipt of dividends or of amounts distributable upon liquidation, dissolution or winding up, as the case may be, in proportion to their respective dividend rates (whether cumulative or non-cumulative) or liquidation prices, without preference or priority one over the other; and

(ii) junior to the Preferred Stock, Series 5, as to dividends or as to the distribution of assets upon liquidation, dissolution or winding up, if such stock shall be Common Stock or if the holders of Preferred Stock, Series 5, shall be entitled to receipt of dividends or of amounts distributable upon dissolution, liquidation or winding up, as the case may be, in preference or priority to the holders of shares of such stock.

(iii) The Shares of Preferred Stock of the Corporation designated "Floating Rate Non-Cumulative Preferred Stock, Series 1," "Floating Rate Non-Cumulative Preferred Stock, Series 2," "6.375% Non-Cumulative Preferred Stock, Series 3," "Floating Rate Non-Cumulative Preferred Stock, Series 4," "6.70% Non-Cumulative Perpetual Preferred Stock, Series 6," "6.25% Non-Cumulative Perpetual Preferred Stock, Series 7," "8.625% Non-Cumulative Preferred Stock, Series 8," "Cumulative Redeemable Preferred Stock, Series B," "Floating Rate Non-Cumulative Preferred Stock, Series E," "6.204% Non-Cumulative Preferred Stock, Series D" "Floating Rate Non-Cumulative Preferred Stock, Series F," "Adjustable Rate Non-Cumulative Preferred Stock, Series G," "8.20% Non-Cumulative Preferred Stock, Series H," "6.625% Non-Cumulative Preferred Stock, Series I," "7.25% Non-Cumulative Preferred Stock, Series J," "7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L," "Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K," and "Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M," and any other class or series of stock of the Corporation hereafter authorized that ranks on parity with the Preferred Stock, Series 5, as to dividends and distribution of assets upon liquidation, dissolution or winding up of the Corporation, shall be deemed to rank on a parity with the shares of the Preferred Stock, Series 5, as to dividends and distribution of assets upon the liquidation, dissolution or winding up of the Corporation.

(9) Exclusion of Other Rights. Unless otherwise required by law, shares of Preferred Stock, Series 5, shall not have any rights, including preemptive rights, or preferences other than those specifically set forth herein or as provided by applicable law.

(10) Notices. All notices or communications unless otherwise specified in the By-laws of the Corporation or the Amended and Restated Certificate of Incorporation, as amended, shall be sufficiently given if in writing and delivered in person

or by first class mail, postage prepaid. Notice shall be deemed given on the earlier of the date received or the date such notice is mailed.

IN WITNESS WHEREOF, the undersigned, being duly authorized thereto, does hereby affirm, under penalties of perjury, that this certificate is the act and deed of the Corporation and that the facts herein stated are true, and accordingly has hereunto set her hand this 31st day of December, 2008.

BANK OF AMERICA CORPORATION

By: /s/ TERESA M. BRENNER
Name: Teresa M. Brenner
Title: Associate General Counsel

[Signature Page to Certificate of Designations, Series 5]

Exhibit I

Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U

**CERTIFICATE OF DESIGNATIONS
OF
FIXED-TO-FLOATING RATE
NON-CUMULATIVE PREFERRED STOCK, SERIES U
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the Series U Final Terms Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on May 21, 2013, in accordance with Section 141(f) of the General Corporation Law:

Resolved, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated May 20, 2013, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U” (the “*Series U Preferred Stock*”). Each share of Series U Preferred Stock shall be identical in all respects to every other share of Series U Preferred Stock. Series U Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series U Preferred Stock shall be 40,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series U Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series U Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series U Preferred Stock:

“*Business Day*” means, for the Fixed Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina; and, for the Floating Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina and is a London Banking Day.

“*Calculation Agent*” shall mean The Bank of New York Mellon Trust Company, N.A., or such other bank or entity as may be appointed by the Corporation to act as calculation agent for the Series U Preferred Stock during the Floating Rate Period (as defined below).

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States

that is enacted or becomes effective after the initial issuance of any shares of the Series U Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series U Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series U Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series U Preferred Stock then outstanding as “Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series U Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of “Three-Month LIBOR.”

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Fixed Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Floating Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series U Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) 7.25% Non-Cumulative Preferred Stock, Series J, (h) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (i) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (j) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (k) 6% Cumulative Perpetual Preferred Stock, Series T, (l) Floating Rate Non-Cumulative Preferred Stock, Series 1, (m) Floating Rate Non-Cumulative Preferred Stock, Series 2, (n) 6.375% Non-Cumulative Preferred Stock, Series 3, (o) Floating Rate Non-Cumulative Preferred Stock, Series 4, (p) Floating Rate Non-Cumulative Preferred Stock, Series 5, (q) 6.70% Noncumulative Perpetual Preferred Stock, Series 6, (r) 6.25% Noncumulative Perpetual Preferred Stock, Series 7, (s) 8.625% Non-Cumulative Preferred Stock, Series 8, and (t) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series U Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Reuters Screen Page “LIBOR01”*” means the display page so designated on Reuters (or any other page as may replace that page on that service, or any other service as may be nominated as the information vendor, for the purpose of displaying London interbank offered rates for U.S. dollar deposits).

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series U Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series U Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“*Three-Month LIBOR*” means, with respect to any Dividend Period in the Floating Rate Period, the offered rate (expressed as a percentage *per annum*) for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Reuters Screen Page “LIBOR01” as of 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend Determination Date*”). If such rate does not appear on Reuters Screen Page “LIBOR01,” Three-Month LIBOR will be determined on the basis of the rates at which deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less

than \$1,000,000 are offered to prime banks in the London interbank market by four major banks in the London interbank market selected by the Calculation Agent (in consultation with the Corporation), at approximately 11:00 a.m., London time on the second London Banking Day immediately preceding the first day of that Dividend Period. The Calculation Agent will request the principal London office of each of such banks to provide a quotation of its rate. If at least two such quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of such quotations. If fewer than two quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of the rates quoted by three major banks in New York City selected by the Calculation Agent (in consultation with the Corporation), at approximately 11:00 a.m., New York City time, on the first day of that Dividend Period for loans in U.S. dollars to leading European banks for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000. However, if fewer than three banks selected by the Calculation Agent (in consultation with the Corporation) to provide quotations are quoting as described above, Three-Month LIBOR for that Dividend Period will be the same as Three-Month LIBOR as determined for the previous Dividend Period, or in the case of the first Dividend Period in the Floating Rate Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had the dividend rate been a floating rate during the Fixed Rate Period (as defined below). The Calculation Agent's establishment of Three-Month LIBOR and calculation of the amount of dividends for each Dividend Period in the Floating Rate Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series U Preferred Stock upon request and will be final and binding in the absence of manifest error.

Section 4. Dividends.

(a) Rate. Holders of Series U Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series U Preferred Stock, and no more, payable (x) for the Fixed Rate Period, semi-annually in arrears on June 1 and December 1 of each year, beginning on December 1, 2013, and (y) for the Floating Rate Period, quarterly in arrears on each March 1, June 1, September 1 and December 1, beginning on September 1, 2023; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless, for the Fixed Rate Period, that day falls in the next calendar year or, for the Floating Rate Period, that day falls in the next calendar month, then in each such case payment of such dividend will occur on the immediately preceding Business Day) (i) on or prior to June 1, 2023, without any interest or other payment in respect of such delay, and (ii) after June 1, 2023, with dividends accruing to the actual payment date (each such day on which dividends are payable a "Dividend Payment Date"). The period from, and including, the date of issuance of the Series U Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a "Dividend Period." Dividends on each share of Series U Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate ~~per annum~~ equal to (1) 5.200%, for each Dividend Period from the issue date to, but excluding, June 1, 2023 (the "Fixed Rate Period"), and (2) thereafter, Three-Month LIBOR plus a spread of 3.135%, for each Dividend Period from, and including, June 1, 2023 (the "Floating Rate Period"). The record date for payment of dividends on the Series U Preferred Stock shall be the fifteenth day of the calendar month immediately preceding the month in which the Dividend Payment Date falls. For the Fixed Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. For the Floating Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period.

(b) Non-Cumulative Dividends. Dividends on shares of Series U Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series U Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series U Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series U Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series U Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed

or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series U Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case unless full dividends on all outstanding shares of Series U Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series U Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series U Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series U Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series U Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then- current dividend payments due on the shares of Series U Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series U Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series U Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series U Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series U Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series U Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series U Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series U Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series U Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series U Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series U Preferred Stock at the time outstanding, at any time on or after the Dividend Payment Date on June 1 2023, or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series U Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provide below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any

undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series U Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series U Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series U Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series U Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series U Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series U Preferred Stock at the time outstanding, the shares of Series U Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series U Preferred Stock in proportion to the number of Series U Preferred Stock held by such holders or by lot or in such other manner as the Board of Directors or any duly authorized committee of the Board of Directors may determine to be fair and equitable. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series U Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series U Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series U Preferred Stock or any other class or series of preferred stock that ranks on parity with Series U Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least three or more semi-annual or six or more quarterly Dividend Periods (whether consecutive or not), as applicable, the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series U Preferred Stock (together with holders of any class of the Corporation’s authorized preferred stock having equivalent voting rights, whether or not the holders of the such preferred stock would be entitled to vote for the election of directors if such default

in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series U Preferred Stock and any other class or series of preferred stock that ranks on parity with Series U Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series U Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series U Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series U Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series U Preferred Stock and any other class or series of preferred stock that ranks on parity with Series U Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series U Preferred Stock may (at our expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of our stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series U Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series U Preferred Stock and any other class or series of preferred stock that ranks on parity with Series U Preferred Stock as to payment of dividends, if any, for the equivalent of at least two semi-annual or four quarterly Dividend Periods, as applicable, then the right of the holders of Series U Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series U Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series U Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least of the voting power of the Series U Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series U Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series U Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least of the shares of the Series U Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series U Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series U Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which (A) the shares of the Series U Preferred Stock remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series U Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series U Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series U Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series U Preferred Stock, with proper notice and sufficient funds having been set aside for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series U Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series U Preferred Stock shall not have any rights of preemption or rights to convert such Series U Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series U Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series U Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series U Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series U Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designation to be executed by its duly authorized officer on this 21st day of May, 2013.

BANK OF AMERICA CORPORATION

/s/ ROSS E. JEFFRIES JR.

By: _____

Name: Ross E. Jeffries, Jr.

Title: Corporate Secretary and Associate General Council

Exhibit J

6% Non-Cumulative Perpetual Preferred Stock, Series T

**CERTIFICATE OF AMENDMENT TO THE CERTIFICATE OF DESIGNATIONS
OF
6% NON-CUMULATIVE PERPETUAL PREFERRED STOCK, SERIES T
OF
BANK OF AMERICA CORPORATION**

Pursuant to Section 242
of the General Corporation Law of the State of Delaware

BANK OF AMERICA CORPORATION, a corporation organized and existing under the General Corporation Law of the State of Delaware (the "Corporation"), does hereby certify that:

1. The Certificate of Designations of the Corporation's 6% Cumulative Perpetual Preferred Stock, Series T, which was previously filed with the Secretary of State of the State of Delaware on August 31, 2011, is hereby amended and restated in its entirety to read as follows:

Section 1. Designation. The distinctive serial designation of such series of Preferred Stock, par value \$0.01 per share, is "6% Non-Cumulative Perpetual Preferred Stock, Series T" ("Series T"). Each share of Series T shall be identical in all respects to every other share of Series T.

Section 2. Number of Shares. The authorized number of shares of Series T shall be 50,000. Shares of Series T that are redeemed, purchased or otherwise acquired by the Corporation shall revert to authorized but unissued shares of Preferred Stock (*provided* that any such cancelled shares of Series T may be reissued only as shares of any now or hereafter designated series other than Series T).

Section 3. Definitions. As used herein with respect to Series T:

- (a) "Amendment Effective Date" means May 7, 2014.
- (b) "Bylaws" means the amended and restated bylaws of the Corporation, as they may be amended from time to time.
- (c) "Business Day" means a day that is a Monday, Tuesday, Wednesday, Thursday or Friday and is not a day on which banking institutions in New York City generally are authorized or obligated by law, regulation or executive order to close.
- (d) "Certificate of Designations" means this Certificate of Designations relating to the Series T, as it may be amended from time to time.
- (e) "Certification of Incorporation" shall mean the amended and restated certificate of incorporation of the Corporation, as it may be amended from time to time, and shall include this Certificate of Designations.
- (f) "Common Stock" means the common stock, par value \$0.01 per share, of the Corporation.
- (g) "Junior Stock" means the Common Stock and any other class or series of stock of the Corporation (other than Series T) that ranks junior to Series T either or both as to the payment of dividends and/or as to the distribution of assets on any liquidation, dissolution or winding up of the Corporation.
- (h) "Original Issue Date" means September 1, 2011.
- (i) "Parity Stock" means any class or series of stock of the Corporation (other than Series T) that ranks equally with Series T both in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation (in each case without regard to whether dividends accrue cumulatively or non-cumulatively). Without limiting the foregoing, Parity Stock shall include the Corporation's (i) 7% Cumulative Redeemable Preferred Stock, Series B, (ii) 6.204% Non-Cumulative Preferred Stock, Series D, (iii) Floating Rate Non-Cumulative Preferred Stock, Series E, (iv) Floating Rate Non-Cumulative Preferred Stock, Series F, (v) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (vi) 6.625% Non-Cumulative Preferred Stock, Series I, (vii) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (viii) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (ix) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (x) Fixed-to-Floating Rate Semi-Annual Non-Cumulative Preferred Stock, Series U, (xi) Floating Rate Non-Cumulative Preferred Stock, Series 1, (xii) Floating Rate Non-Cumulative Preferred Stock, Series 2, (xiii) 6.375% Non-

Cumulative Preferred Stock, Series 3, (xiv) Floating Rate Non-Cumulative Preferred Stock, Series 4 and (xv) Floating Rate Non-Cumulative Preferred Stock, Series 5.

(j) “Preferred Stock” means any and all series of preferred stock of the Corporation, including the Series T.

(k) “Voting Parity Stock” means, with regard to any matter as to which the holders of Series T are entitled to vote as specified in Section 8 of this Certificate of Designations, any and all series of Parity Stock upon which like voting rights have been conferred and are exercisable with respect to such matter.

(l) “Voting Preferred Stock” means, with regard to any matter as to which the holders of Series T are entitled to vote as specified in Section 8 of this Certificate of Designations, any and all series of Preferred Stock (other than Series T) that rank equally with Series T either as to the payment of dividends or as to the distribution of assets upon liquidation, dissolution or winding up of the Corporation and upon which like voting rights have been conferred and are exercisable with respect to such matter.

Section 4. Dividends.

(a) Rate. Holders of Series T shall be entitled to receive, on each share of Series T, out of funds legally available for the payment of dividends under Delaware law, non-cumulative cash dividends with respect to each Dividend Period (as defined below) at a per annum rate of 6% (the “Dividend Rate”) on the amount of \$100,000 per share of Series T. Following the Amendment Effective Date, dividends shall be payable in arrears (as provided below in this Section 4(a)), but only when, as and if declared by the Board of Directors (or a duly authorized committee of the Board of Directors), on each October 10, January 10, April 10 and July 10 (each, a “Dividend Payment Date”), commencing on October 10, 2011; *provided* that if any such Dividend Payment Date would otherwise occur on a day that is not a Business Day, such Dividend Payment Date shall instead be (and any dividend payable on Series T on such Dividend Payment Date shall instead be payable on) the immediately succeeding Business Day. Dividends payable on the Series T in respect of any Dividend Period shall be computed on the basis of a 360-day year consisting of twelve 30-day months. The amount of dividends payable on the Series T on any date prior to the end of a Dividend Period, and for the initial Dividend Period, shall be computed on the basis of a 360-day year consisting of twelve 30-day months, and actual days elapsed over a 30-day month.

Dividends that are payable on Series T on any Dividend Payment Date will be payable to holders of record of Series T as they appear on the stock register of the Corporation on the applicable record date, which shall be the 15th calendar day before such Dividend Payment Date (as originally scheduled) or such other record date fixed by the Board of Directors (or a duly authorized committee of the Board of Directors) that is not more than 60 nor less than 10 days prior to such Dividend Payment Date (each, a “Dividend Record Date”). Any such day that is a Dividend Record Date shall be a Dividend Record Date whether or not such day is a Business Day.

Each dividend period (a “Dividend Period”) shall commence on and include a Dividend Payment Date (other than the initial Dividend Period, which commenced on and included the Original Issue Date of the Series T) and shall end on and include the calendar day next preceding the next Dividend Payment Date. Dividends payable in respect of a Dividend Period shall be payable in arrears on the first Dividend Payment Date after such Dividend Period.

Holders of Series T shall not be entitled to any dividends, whether payable in cash, securities or other property, other than dividends (if any) declared and payable on the Series T as specified in this Section 4 (subject to the other provisions of this Certificate of Designations).

(b) Non-Cumulative Dividends. Dividends on shares of Series T shall be non-cumulative. To the extent that any dividends on the shares of Series T with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series T shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to the Series T, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series T remains outstanding, no dividend shall be declared or paid on the Common Stock or any other shares of Junior Stock (other than a dividend payable solely in Junior Stock), and no Common Stock, Junior Stock or Parity Stock shall be purchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock or of Parity Stock for or into other Parity Stock (with the same or lesser aggregate liquidation amount) or Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock or of one share of Parity Stock for or into another share of Parity Stock (with the same or lesser per share liquidation amount) or Junior Stock) in respect of or during a particular Dividend Period as the case may be, unless dividends for such Dividend Period on all outstanding shares of Series T

have been or are contemporaneously declared and paid in full (or declared and a sum sufficient for the payment thereof has been set aside for the benefit of the holders of shares of Series T on the applicable record date). The

foregoing provision shall not apply to (i) redemptions, purchases or other acquisitions of shares of Common Stock or other Junior Stock in connection with the cashless exercises and similar actions under any employee benefit plan in the ordinary course of business and consistent with past practice prior to the Original Issue Date; (ii) purchases or other acquisitions by a broker-dealer subsidiary of the Corporation solely for the purpose of market-making, stabilization or customer facilitation transactions in Junior Stock or Parity Stock in the ordinary course of its business; (iii) in connection with the issuance of Junior Stock or Parity Stock, ordinary sale and repurchase transactions to facilitate the distribution of such Junior Stock or Parity Stock; and (iv) the acquisition by the Corporation or any of its subsidiaries of record ownership in Junior Stock or Parity Stock for the beneficial ownership of, and at the ultimate cost of, any other persons (other than the Corporation or any of its subsidiaries), including as trustees or custodians.

When dividends are not paid (or declared and a sum sufficient for payment thereof set aside for the benefit of the holders thereof on the applicable record date) on any Dividend Payment Date (or, in the case of Parity Stock having dividend payment dates different from the Dividend Payment Dates, on a dividend payment date falling within a Dividend Period related to such Dividend Payment Date) in full upon the Series T and any shares of Parity Stock, all dividends declared on the Series T and all such Parity Stock and payable on such Dividend Payment Date (or, in the case of Parity Stock having dividend payment dates different from the Dividend Payment Dates, on a dividend payment date falling within the Dividend Period related to such Dividend Payment Date) shall be declared pro rata so that the respective amounts of such dividends declared shall bear the same ratio to each other as all declared and unpaid dividends per share on the Series T and all Parity Stock payable on such Dividend Payment Date (or, in the case of Parity Stock having dividend payment dates different from the Dividend Payment Dates, on a dividend payment date falling within the Dividend Period related to such Dividend Payment Date) bear to each other.

Subject to the foregoing, such dividends (payable in cash, securities or other property) as may be determined by the Board of Directors (or a duly authorized committee of the Board of Directors) may be declared and paid on any securities, including Common Stock and other Junior Stock, from time to time out of any funds legally available for such payment, and the Series T shall not be entitled to participate in any such dividends.

Section 5. Liquidation Rights.

(a) Voluntary or Involuntary Liquidation. In the event of any liquidation, dissolution or winding up of the affairs of the Corporation, whether voluntary or involuntary, holders of Series T shall be entitled to receive for each share of Series T, out of the assets of the Corporation or proceeds thereof (whether capital or surplus) available for distribution to stockholders of the Corporation, and after satisfaction of all liabilities and obligations to creditors of the Corporation, before any distribution of such assets or proceeds is made to or set aside for the holders of Common Stock and any other stock of the Corporation ranking junior to the Series T as to such distribution, payment in full in an amount equal to the sum of (i) \$100,000 per share and (ii) any declared and unpaid dividends thereon, without cumulation of any undeclared dividends, to but excluding the date of liquidation, dissolution or winding up. The Series T may be fully subordinated to interests held by the U.S. government in the event that the Corporation enters into a receivership, insolvency, liquidation or similar proceeding.

(b) Partial Payment. If in any distribution described in Section 5(a) above the assets of the Corporation or proceeds thereof are not sufficient to pay the Liquidation Preferences (as defined below) in full to all holders of Series T and all holders of any stock of the Corporation ranking equally with the Series T as to such distribution, the amounts paid to the holders of Series T and to the holders of all such other stock shall be paid *pro rata* in accordance with the respective aggregate Liquidation Preferences of the holders of Series T and the holders of all such other stock. In any such distribution, the “Liquidation Preference” of any holder of stock of the Corporation shall mean the amount otherwise payable to such holder in such distribution (assuming no limitation on the assets of the Corporation available for such distribution), including an amount equal to any declared but unpaid dividends, *provided* that the Liquidation Preference for any share of Series T shall be determined in accordance with Section 5(a) above.

(c) Residual Distributions. If the Liquidation Preference has been paid in full to all holders of Series T, the holders of other stock of the Corporation shall be entitled to receive all remaining assets of the Corporation (or proceeds thereof) according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the merger or consolidation of the Corporation with any other corporation or other entity, including a merger or consolidation in which the holders of Series T receive cash, securities or other property for their shares, or the sale, lease or exchange (for cash, securities or other property) of all or substantially all of the assets of the Corporation, shall not constitute a liquidation, dissolution or winding up of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at its option, subject to any required prior approval of the Board of Governors of the Federal Reserve System and to the satisfaction of any conditions set forth in the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System applicable to redemption of the shares of Series T, may redeem, in whole at any time or in part from time to time, but in any case no earlier than May 7, 2019 the shares of Series T at the time outstanding, upon notice given as provided in Section 6(c) below, at a redemption price equal to the sum of (i) \$105,000 per share and (ii) any declared and unpaid dividends thereon, without cumulation for any undeclared dividends, to but excluding the redemption date. The minimum number of shares of Series T redeemable at any time is the lesser of (x) 10,000 shares of Series T and (y) the number of shares of Series T outstanding. The redemption price for any shares of Series T shall be payable on the redemption date to the holder of such shares against surrender of the certificate(s) evidencing such shares to the Corporation or its agent. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the Dividend Record Date for a Dividend Period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such Dividend Record Date relating to the Dividend Payment Date as provided in Section 4 above.

(b) No Sinking Fund. The Series T will not be subject to any mandatory redemption, sinking fund or other similar provisions. Holders of Series T will have no right to require redemption of any shares of Series T.

(c) Notice of Redemption. Notice of every redemption of shares of Series T shall be given by first class mail, postage prepaid, addressed to the holders of record of the shares to be redeemed at their respective last addresses appearing on the books of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Subsection shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series T designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series T. Notwithstanding the foregoing, if the Series T are issued in book-entry form through The Depository Trust Company or any other similar facility, notice of redemption may be given to the holders of Series T at such time and in any manner permitted by such facility. Each notice of redemption given to a holder shall state: (1) the redemption date; (2) the number of shares of Series T to be redeemed and, if less than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (3) the redemption price; and (4) the place or places where certificates for such shares are to be surrendered for payment of the redemption price. Notwithstanding anything to the contrary herein, upon receipt of any notice of redemption hereunder, the holder of any share of Series T outstanding at such time shall have five (5) Business Days to deliver to the Corporation written notice of its election to pay some or all of the applicable exercise price with respect to an exercise, in whole or in part, of such holder's rights under any warrant to purchase Common Stock of the Corporation originally issued by the Corporation in connection with the issuance of the Series T by means of a surrender to the Corporation of shares of the Series T in accordance with the terms and conditions hereof and of any such warrant, and the Corporation's right to redeem the shares of Series T specified in such notice of redemption shall be (x) tolled during such five (5) Business Day period and (y) if the holder so elects to exercise such warrant and surrender such shares of Series T, in whole or in part, automatically terminated only with respect to such shares of Series T to be so surrendered.

(d) Partial Redemption. In case of any redemption of part of the shares of Series T at the time outstanding, the shares to be redeemed shall be selected either *pro rata* or in such other manner as the Corporation may determine to be fair and equitable. Subject to the provisions hereof, the Corporation shall have full power and authority to prescribe the terms and conditions upon which shares of Series T shall be redeemed from time to time. If fewer than all the shares represented by any certificate are redeemed, a new certificate shall be issued representing the unredeemed shares without charge to the holder thereof.

(e) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been deposited by the Corporation, in trust for the *pro rata* benefit of the holders of the shares called for redemption, with a bank or trust company doing business in the Borough of Manhattan, The City of New York, and having a capital and surplus of at least \$50 million and selected by the Board of Directors, so as to be and continue to be available solely therefor, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date dividends shall cease to accrue on all shares so called for redemption, all shares so called for redemption shall no longer be deemed outstanding and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company, without interest. Any funds unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released to the Corporation, after which time the holders of the shares so called for redemption shall look only to the Corporation for payment of the redemption price of such shares.

Section 7. Conversion. Holders of Series T shares shall have no right to exchange or convert such shares into any other securities, except in connection with the surrender to the Corporation of shares of the Series T to satisfy any portion of the applicable exercise price with respect to an exercise, in whole or in part, of any warrant to purchase Common Stock of the Corporation issued in connection with the original issuance of the Series T by the Corporation.

Section 8. Voting Rights.

(a) General. The holders of Series T shall not have any voting rights except as set forth below or as otherwise from time to time required by law.

(b) Class Voting Rights as to Particular Matters. So long as any shares of Series T are outstanding, in addition to any other vote or consent of stockholders required by law or by the Certificate of Incorporation, the vote or consent of the holders of at least 66 2/3% of the shares of Series T and any Voting Preferred Stock at the time outstanding and entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or by vote at any meeting called for the purpose, shall be necessary for effecting or validating:

(i) Authorization of Senior Stock. Any amendment or alteration of the Certificate of Incorporation to authorize or create, or increase the authorized amount of, any shares of any class or series of capital stock of the Corporation ranking senior to the Series T with respect to either or both the payment of dividends and/or the distribution of assets on any liquidation, dissolution or winding up of the Corporation;

(ii) Amendment of Series T. Any amendment, alteration or repeal of any provision of the Certificate of Incorporation so as to materially and adversely affect the special rights, preferences, privileges or voting powers of the Series T, taken as a whole; or

(iii) Share Exchanges, Reclassifications, Mergers and Consolidations. Any consummation of a binding share exchange or reclassification involving the Series T, or of a merger or consolidation of the Corporation with another corporation or other entity, unless in each case (x) the shares of Series T remain outstanding or, in the case of any such merger or consolidation with respect to which the Corporation is not the surviving or resulting entity, are converted into or exchanged for preference securities of the surviving or resulting entity or its ultimate parent, and (y) such shares remaining outstanding or such preference securities, as the case may be, have such rights, preferences, privileges and voting powers, and limitations and restrictions thereof, taken as a whole, as are not materially less favorable to the holders thereof than the rights, preferences, privileges and voting powers, and limitations and restrictions thereof, of the Series T immediately prior to such consummation, taken as a whole; *provided, however*, that for all purposes of this Section 8(b), any increase in the amount of the authorized Preferred Stock, or the creation and issuance, or an increase in the authorized or issued amount, of any other series of Preferred Stock ranking equally with and/or junior to the Series T with respect to the payment of dividends (whether such dividends are cumulative or non-cumulative) and/or the distribution of assets upon liquidation, dissolution or winding up of the Corporation will not be deemed to adversely affect the rights, preferences, privileges or voting powers of the Series T.

If any amendment, alteration, repeal, share exchange, reclassification, merger or consolidation specified in this Section 8 (b) would adversely affect the Series T and one or more but not all other series of Preferred Stock, then only the Series T and such series of Preferred Stock as are adversely affected by and entitled to vote on the matter shall vote on the matter together as a single class (in lieu of all other series of Preferred Stock).

If any amendment, alteration, repeal, share exchange, reclassification, merger or consolidation specified in this Section 8 (b) would adversely affect the Series T but would not similarly adversely affect all other series of Voting Parity Stock, then only the Series T and each other series of Voting Parity Stock as is similarly adversely affected by and entitled to vote on the matter, if any, shall vote on the matter together as a single class (in lieu of all other series of Preferred Stock).

(c) Series T Voting Rights as to Particular Matters. In addition to any other vote or consent of stockholders required by law or by the Certificate of Incorporation, so long as at least 10,000 shares of Series T are outstanding, the vote or consent of the holders of at least 50.1% of the shares of Series T at the time outstanding, voting in person or by proxy, either in writing without a meeting or by vote at any meeting called for the purpose, shall be necessary for effecting or validating:

(i) Authorization or Issuance of Senior Stock. Any amendment or alteration of the Certificate of Incorporation to authorize or create, or increase the authorized amount of, any shares of any class or series of capital stock of the Corporation, or the issuance of any shares of any class or series of capital stock of the Corporation, in each case, ranking senior to the Series T with respect to either or both the payment of dividends and/or the distribution of assets on any liquidation, dissolution or winding up of the Corporation;

(ii) Amendment of Series T. Any amendment, alteration or repeal of any provision of the Certificate of Incorporation so as to affect or change the rights, preferences, privileges or voting powers of the Series T so as not to be substantially similar to those in effect immediately prior to such amendment, alteration or repeal; or

(iii) Share Exchanges, Reclassifications, Mergers and Consolidations. Any consummation of a binding share exchange or reclassification involving the Series T, or of a merger or consolidation of the Corporation with another corporation or other entity, unless in each case (x) the shares of Series T remain outstanding or, in the case of any such merger or consolidation with respect to which the Corporation is not the surviving or resulting entity, are converted into or exchanged for preference securities of the surviving or resulting entity or its ultimate parent, and (y) such shares remaining outstanding or such preference securities, as the case may be, have such rights, preferences, privileges and voting powers, and limitations and restrictions thereof as are substantially similar to the rights, preferences, privileges and voting powers, and limitations and restrictions of the Series T immediately prior to such consummation; *provided, however*, that for all purposes of this Section 8(c), the creation and issuance, or an increase in the authorized or issued amount, of any other series of Preferred Stock ranking equally with and/or junior to the Series T with respect to the payment of dividends (whether such dividends are cumulative or non-cumulative) and/or the distribution of assets upon liquidation, dissolution or winding up of the Corporation will not be deemed to adversely affect the rights, preferences, privileges or voting powers of the Series T.

(d) Changes after Provision for Redemption. No vote or consent of the holders of Series T shall be required pursuant to Section 8(b) or (c) above if, at or prior to the time when any such vote or consent would otherwise be required pursuant to such Section, all outstanding shares of Series T (or, in the case of Section 8(c), more than 40,000 shares of Series T) shall have been redeemed, or shall have been called for redemption upon proper notice and sufficient funds shall have been deposited in trust for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. The rules and procedures for calling and conducting any meeting of the holders of Series T (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such a meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules of the Board of Directors (or a duly authorized committee of the Board of Directors), in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation, the Bylaws, and applicable law and the rules of any national securities exchange or other trading facility on which the Series T is listed or traded at the time. Whether the vote or consent of the holders of a plurality, majority or other portion of the shares of Series T and any Voting Preferred Stock has been cast or given on any matter on which the holders of shares of Series T are entitled to vote shall be determined by the Corporation by reference to the specified liquidation amount of the shares voted or covered by the consent (*provided* that the specified liquidation amount for any share of Series T shall be the Liquidation Preference for such share) as if the Corporation were liquidated on the record date for such vote or consent, if any, or, in the absence of a record date, on the date for such vote or consent.

Section 9. Record Holders. To the fullest extent permitted by applicable law, the Corporation and the transfer agent for the Series T may deem and treat the record holder of any share of Series T as the true and lawful owner thereof for all purposes, and neither the Corporation nor such transfer agent shall be affected by any notice to the contrary.

Section 10. Notices. All notices or communications in respect of Series T shall be sufficiently given if given in writing and delivered in person or by first class mail, postage prepaid, or if given in such other manner as may be permitted in this Certificate of Designations, in the Certificate of Incorporation or Bylaws or by applicable law. Notwithstanding the foregoing, if the Series T are issued in book-entry form through The Depository Trust Company or any similar facility, such notices may be given to the holders of Series T in any manner permitted by such facility.

Section 11. No Preemptive Rights. No share of Series T shall have any rights of preemption whatsoever as to any securities of the Corporation, or any warrants, rights or options issued or granted with respect thereto, regardless of how such securities, or such warrants, rights or options, may be designated, issued or granted.

Section 12. Replacement Certificates. The Corporation shall replace any mutilated certificate at the holder's expense upon surrender of that certificate to the Corporation. The Corporation shall replace certificates that become destroyed, stolen or lost at the holder's expense upon delivery to the Corporation of reasonably satisfactory evidence that the certificate has been destroyed, stolen or lost, together with any indemnity that may be reasonably required by the Corporation.

Section 13. Surrender Rights. In connection with the exercise of any rights under any warrant to purchase Common Stock of the Corporation issued in connection with the original issuance of the Series T, a holder of shares of Series T shall have the right to pay some or all of the applicable exercise price with respect to an exercise, in whole or in part, of such holder's rights under any such warrant by means of a surrender to the Corporation of the applicable amount shares of the Series T.

Section 14. Other Rights. The shares of Series T shall not have any rights, preferences, privileges or voting powers or relative, participating, optional or other special rights, or qualifications, limitations or restrictions thereof, other than as set forth herein or in the Certificate of Incorporation or as provided by applicable law.

2. The foregoing amendment was duly adopted in accordance with the provision of Section 242 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, BANK OF AMERICA CORPORATION has caused this Certificate of Amendment to be signed by its duly authorized officer this 7th day of May, 2014.

BANK OF AMERICA CORPORATION

/s/ ROSS E. JEFFRIES, JR.

By: _____

Name: Ross E. Jeffries, Jr.

Title: Deputy General Counsel, Corporate Secretary

Exhibit K

Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X

**CERTIFICATE OF DESIGNATIONS
OF
FIXED-TO-FLOATING RATE
NON-CUMULATIVE PREFERRED STOCK, SERIES X
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the New Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on September 2, 2014, in accordance with Section 141(f) of the General Corporation Law:

RESOLVED, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated May 7, 2014 and July 24, 2014, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X” (the “*Series X Preferred Stock*”). Each share of Series X Preferred Stock shall be identical in all respects to every other share of Series X Preferred Stock. Series X Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series X Preferred Stock shall be 80,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series X Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series X Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series X Preferred Stock:

“*Business Day*” means, for the Fixed Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina; and, for the Floating Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina and is a London Banking Day.

“*Calculation Agent*” shall mean The Bank of New York Mellon Trust Company, N.A., or such other bank or entity as may be appointed by the Corporation to act as calculation agent for the Series X Preferred Stock during the Floating Rate Period (as defined below).

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series X Preferred Stock; (ii) proposed

change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series X Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series X Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series X Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series X Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of “Three-Month LIBOR.”

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Fixed Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Floating Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series X Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (h) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (j) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (m) Floating Rate Non-Cumulative Preferred Stock, Series 1, (n) Floating Rate Non-Cumulative Preferred Stock, Series 2, (o) 6.375% Non-Cumulative Preferred Stock, Series 3, (p) Floating Rate Non-Cumulative Preferred Stock, Series 4, (q) Floating Rate Non-Cumulative Preferred Stock, Series 5, (r) if issued, 6.625% Non-Cumulative Preferred Stock, Series W, and (s) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series X Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Reuters Screen Page “LIBOR01”*” means the display page so designated on Reuters (or any other page as may replace that page on that service, or any other service as may be nominated as the information vendor, for the purpose of displaying London interbank offered rates for U.S. dollar deposits).

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series X Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series X Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“*Three-Month LIBOR*” means, with respect to any Dividend Period in the Floating Rate Period, the offered rate (expressed as a percentage *per annum*) for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Reuters Screen Page “LIBOR01” as of 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend Determination Date*”). If such rate does not appear on Reuters Screen Page “LIBOR01,” Three-Month LIBOR will be determined on the basis of the rates at which deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period and in a principal

amount of not less than \$1,000,000 are offered to prime banks in the London interbank market by four major banks in the London interbank market selected by the Calculation Agent (in consultation with the Corporation), at approximately 11:00 a.m., London time on the second London Banking Day immediately preceding the first day of that Dividend Period. The Calculation Agent will request the principal London office of each of such banks to provide a quotation of its rate. If at least two such quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of such quotations. If fewer than two quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of the rates quoted by three major banks in New York City selected by the Calculation Agent (in consultation with the Corporation), at approximately 11:00 a.m., New York City time, on the first day of that Dividend Period for loans in U.S. dollars to leading European banks for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000. However, if fewer than three banks selected by the Calculation Agent (in consultation with the Corporation) to provide quotations are quoting as described above, Three-Month LIBOR for that Dividend Period will be the same as Three-Month LIBOR as determined for the previous Dividend Period, or in the case of the first Dividend Period in the Floating Rate Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had the dividend rate been a floating rate during the Fixed Rate Period (as defined below). The Calculation Agent's establishment of Three-Month LIBOR and calculation of the amount of dividends for each Dividend Period in the Floating Rate Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series X Preferred Stock upon request and will be final and binding in the absence of manifest error.

Section 4. Dividends.

(a) Rate. Holders of Series X Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series X Preferred Stock, and no more, payable (x) for the Fixed Rate Period, semi-annually in arrears on March 5 and September 5 of each year, beginning on March 5, 2015, and (y) for the Floating Rate Period, quarterly in arrears on each March 5, June 5, September 5 and December 5, beginning on December 5, 2024; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless, for the Fixed Rate Period, that day falls in the next calendar year or, for the Floating Rate Period, that day falls in the next calendar month, then in each such case payment of such dividend will occur on the immediately preceding Business Day) (i) on or prior to September 5, 2024, without any interest or other payment in respect of such delay, and (ii) after September 5, 2024, with dividends accruing to the actual payment date (each such day on which dividends are payable a "Dividend Payment Date"). The period from, and including, the date of issuance of the Series X Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a "Dividend Period." Dividends on each share of Series X Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to (1) 6.250%, for each Dividend Period from the issue date to, but excluding, September 5, 2024 (the "Fixed Rate Period"), and (2) thereafter, Three-Month LIBOR plus a spread of 3.705%, for each Dividend Period from, and including, September 5, 2024 (the "Floating Rate Period"). The record date for payment of dividends on the Series X Preferred Stock shall be the fifteenth day of the calendar month preceding the month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. For the Fixed Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. For the Floating Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series X Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series X Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series X Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series X Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series X Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of

other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or a *pro rata* portion, of the Series X Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series X Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series X Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series X Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series X Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series X Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series X Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series X Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series X Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series X Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series X Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series X Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series X Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series X Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series X Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series X Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series X Preferred Stock at the time outstanding, at any time on or after September 5, 2024, or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series X Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be

\$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series X Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series X Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series X Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series X Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series X Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series X Preferred Stock at the time outstanding, the shares of Series X Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series X Preferred Stock in proportion to the number of Series X Preferred Stock held by such holders or by lot or in such other manner as the Board of Directors or any duly authorized committee of the Board of Directors may determine to be fair and equitable. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series X Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series X Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series X Preferred Stock or any other class or series of preferred stock that ranks on parity with Series X Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least three or more semi-annual or six or more quarterly Dividend Periods (whether consecutive or not), as applicable, the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series X Preferred Stock (together with holders of any class of the Corporation’s authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right,

voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series X Preferred Stock and any other class or series of preferred stock that ranks on parity with Series X Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series X Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series X Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series X Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series X Preferred Stock and any other class or series of preferred stock that ranks on parity with Series X Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series X Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series X Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series X Preferred Stock and any other class or series of preferred stock that ranks on parity with Series X Preferred Stock as to payment of dividends, if any, for the equivalent of at least two semi-annual or four quarterly Dividend Periods, as applicable, then the right of the holders of Series X Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series X Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series X Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least of the voting power of the Series X Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series X Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series X Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least of the shares of the Series X Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series X Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series X Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series X Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series X Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series X Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series X Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series X Preferred Stock, with proper notice and sufficient funds having been set aside for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series X Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series X Preferred Stock shall not have any rights of preemption or rights to convert such Series X Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series X Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series X Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series X Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series X Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 5th day of September, 2014.

BANK OF AMERICA CORPORATION

By: /s/ Ross E. Jeffries, Jr.

Name: Ross E. Jeffries, Jr.

Title: Corporate Secretary and Deputy General Counsel

Exhibit L

**FIXED-TO-FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES Z
CERTIFICATE OF DESIGNATIONS
OF
FIXED-TO-FLOATING RATE
NON-CUMULATIVE PREFERRED STOCK, SERIES Z
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the New Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on October 20, 2014, in accordance with Section 141(f) of the General Corporation Law:

RESOLVED, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated May 7, 2014 and July 24, 2014, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z” (the “*Series Z Preferred Stock*”). Each share of Series Z Preferred Stock shall be identical in all respects to every other share of Series Z Preferred Stock. Series Z Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series Z Preferred Stock shall be 56,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series Z Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series Z Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series Z Preferred Stock:

“*Business Day*” means, for the Fixed Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina; and, for the Floating Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina and is a London Banking Day.

“*Calculation Agent*” shall mean The Bank of New York Mellon Trust Company, N.A., or such other bank or entity as may be appointed by the Corporation to act as calculation agent for the Series Z Preferred Stock during the Floating Rate Period (as defined below).

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series Z Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series

Z Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series Z Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series Z Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series Z Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of “Three-Month LIBOR.”

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Fixed Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Floating Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series Z Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (h) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (j) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (m) 6.625% Non-Cumulative Preferred Stock, Series W, (n) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (o) Floating Rate Non-Cumulative Preferred Stock, Series 1, (p) Floating Rate Non-Cumulative Preferred Stock, Series 2, (q) 6.375% Non-Cumulative Preferred Stock, Series 3, (r) Floating Rate Non-Cumulative Preferred Stock, Series 4, (s) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (t) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series Z Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Reuters Screen Page “LIBOR01”*” means the display page so designated on Reuters (or any other page as may replace that page on that service, or any other service as may be nominated as the information vendor, for the purpose of displaying London interbank offered rates for U.S. dollar deposits).

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series Z Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series Z Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“*Three-Month LIBOR*” means, with respect to any Dividend Period in the Floating Rate Period, the offered rate (expressed as a percentage *per annum*) for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Reuters Screen Page “LIBOR01” as of 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend Determination Date*”). If such rate does not appear on Reuters Screen Page “LIBOR01,” Three-Month LIBOR will be determined on the basis of the rates at which deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period and in a principal

amount of not less than \$1,000,000 are offered to prime banks in the London interbank market by four major banks in the London interbank market selected by the Calculation Agent (in consultation with the Corporation), at approximately 11:00 a.m., London time on the second London Banking Day immediately preceding the first day of that Dividend Period. The Calculation Agent will request the principal London office of each of such banks to provide a quotation of its rate. If at least two such quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of such quotations. If fewer than two quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of the rates quoted by three major banks in New York City selected by the Calculation Agent (in consultation with the Corporation), at approximately 11:00 a.m., New York City time, on the first day of that Dividend Period for loans in U.S. dollars to leading European banks for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000. However, if fewer than three banks selected by the Calculation Agent (in consultation with the Corporation) to provide quotations are quoting as described above, Three-Month LIBOR for that Dividend Period will be the same as Three-Month LIBOR as determined for the previous Dividend Period, or in the case of the first Dividend Period in the Floating Rate Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had the dividend rate been a floating rate during the Fixed Rate Period (as defined below). The Calculation Agent's establishment of Three-Month LIBOR and calculation of the amount of dividends for each Dividend Period in the Floating Rate Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series Z Preferred Stock upon request and will be final and binding in the absence of manifest error.

Section 4. Dividends.

(a) Rate. Holders of Series Z Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series Z Preferred Stock, and no more, payable (x) for the Fixed Rate Period, semi-annually in arrears on April 23 and October 23 of each year, beginning on April 23, 2015, and (y) for the Floating Rate Period, quarterly in arrears on each January 23, April 23, July 23 and October 23, beginning on January 23, 2025; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless, for the Fixed Rate Period, that day falls in the next calendar year or, for the Floating Rate Period, that day falls in the next calendar month, then in each such case payment of such dividend will occur on the immediately preceding Business Day) (i) on or prior to October 23, 2024, without any interest or other payment in respect of such delay, and (ii) after October 23, 2024, with dividends accruing to the actual payment date (each such day on which dividends are payable a "Dividend Payment Date"). The period from, and including, the date of issuance of the Series Z Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a "Dividend Period." Dividends on each share of Series Z Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to (1) 6.500%, for each Dividend Period from the issue date to, but excluding, October 23, 2024 (the "Fixed Rate Period"), and (2) thereafter, Three-Month LIBOR plus a spread of 4.174%, for each Dividend Period from, and including, October 23, 2024 (the "Floating Rate Period"). The record date for payment of dividends on the Series Z Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. For the Fixed Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. For the Floating Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series Z Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series Z Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series Z Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series Z Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series Z Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of

other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or a *pro rata* portion, of the Series Z Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series Z Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series Z Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series Z Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series Z Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series Z Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series Z Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series Z Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series Z Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series Z Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series Z Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series Z Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series Z Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series Z Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series Z Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series Z Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series Z Preferred Stock at the time outstanding, at any time on or after October 23, 2024, or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series Z Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be

\$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series Z Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series Z Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series Z Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series Z Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series Z Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series Z Preferred Stock at the time outstanding, the shares of Series Z Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series Z Preferred Stock in proportion to the number of Series Z Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series Z Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series Z Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series Z Preferred Stock or any other class or series of preferred stock that ranks on parity with Series Z Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least three or more semi-annual or six or more quarterly Dividend Periods (whether consecutive or not), as applicable, the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series Z Preferred Stock (together with holders of any class of the Corporation’s authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right,

voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series Z Preferred Stock and any other class or series of preferred stock that ranks on parity with Series Z Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series Z Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series Z Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series Z Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series Z Preferred Stock and any other class or series of preferred stock that ranks on parity with Series Z Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series Z Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series Z Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series Z Preferred Stock and any other class or series of preferred stock that ranks on parity with Series Z Preferred Stock as to payment of dividends, if any, for the equivalent of at least two semi-annual or four quarterly Dividend Periods, as applicable, then the right of the holders of Series Z Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series Z Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series Z Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66⅔% of the voting power of the Series Z Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series Z Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series Z Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66⅔% of the shares of the Series Z Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series Z Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series Z Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series Z Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series Z Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series Z Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series Z Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series Z Preferred Stock, with proper notice and sufficient funds having been set aside for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series Z Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series Z Preferred Stock shall not have any rights of preemption or rights to convert such Series Z Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series Z Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series Z Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series Z Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series Z Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 23rd day of October, 2014.

BANK OF AMERICA CORPORATION

By: /s/ Ross E. Jeffries, Jr.
Name: Ross E. Jeffries, Jr.
Title: Corporate Secretary and Deputy General Counsel

Exhibit M

**6.500% NON-CUMULATIVE PREFERRED STOCK, SERIES Y
CERTIFICATE OF DESIGNATIONS
OF
6.500% NON-CUMULATIVE PREFERRED STOCK, SERIES Y
OF
BANK OF AMERICA CORPORATION**

First: Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the New Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on January 20, 2015, in accordance with Section 141(f) of the General Corporation Law:

Resolved, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 12, 2015, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “6.500% Non-Cumulative Preferred Stock, Series Y” (the “*Series Y Preferred Stock*”). Each share of Series Y Preferred Stock shall be identical in all respects to every other share of Series Y Preferred Stock. Series Y Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series Y Preferred Stock shall be 44,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series Y Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series Y Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series Y Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series Y Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series Y Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series Y Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series Y Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series Y Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series Y Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (h) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (j) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (m) 6.625% Non-Cumulative Preferred Stock, Series W, (n) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (o) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (p) Floating Rate Non-Cumulative Preferred Stock, Series 1, (q) Floating Rate Non-Cumulative Preferred Stock, Series 2, (r) 6.375% Non-Cumulative Preferred Stock, Series 3, (s) Floating Rate Non-Cumulative Preferred Stock, Series 4, (t) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (u) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series Y Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series Y Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series Y Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

Section 4. Dividends.

(a) Rate. Holders of Series Y Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series Y Preferred Stock, and no more, payable quarterly in arrears on January 27, April 27, July 27 and October 27 of each year, beginning on April 27, 2015; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day), without any interest or other payment in respect of such delay (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from, and including, the date of issuance of the Series Y Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series Y Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to 6.500%. The record date for payment of dividends on the Series Y Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. The amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series Y Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series Y Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series Y Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such

dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series Y Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series Y Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series Y Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series Y Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series Y Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series Y Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series Y Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series Y Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series Y Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series Y Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series Y Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series Y Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series Y Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series Y Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series Y Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series Y Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series Y Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series Y Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the

Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series Y Preferred Stock at the time outstanding, at any time on or after January 27, 2020 or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series Y Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series Y Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series Y Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series Y Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series Y Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series Y Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series Y Preferred Stock at the time outstanding, the shares of Series Y Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series Y Preferred Stock in proportion to the number of Series Y Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series Y Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series Y Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series Y Preferred Stock or any other class or series of preferred stock that ranks on parity with Series Y Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least six or more quarterly Dividend Periods (whether consecutive or not), the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series Y Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series Y Preferred Stock and any other class or series of preferred stock that ranks on parity with Series Y Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series Y Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series Y Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series Y Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series Y Preferred Stock and any other class or series of preferred stock that ranks on parity with Series Y Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series Y Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series Y Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series Y Preferred Stock and any other class or series of preferred stock that ranks on parity with Series Y Preferred Stock as to payment of dividends, if any, for the equivalent of at least four quarterly Dividend Periods, then the right of the holders of Series Y Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series Y Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series Y Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66 $\frac{2}{3}$ % of the voting power of the Series Y Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in

person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series Y Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series Y Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66 $\frac{2}{3}$ % of the shares of the Series Y Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series Y Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series Y Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series Y Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series Y Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series Y Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series Y Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series Y Preferred Stock, with proper notice and sufficient funds having been set aside for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series Y Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series Y Preferred Stock shall not have any rights of preemption or rights to convert such Series Y Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series Y Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series Y Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series Y Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series Y Preferred Stock are not subject to the operation of a sinking fund.

Second: This Certificate of Designations shall be effective at 10:00 a.m. (Eastern Standard Time) on January 27, 2015.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 26th day of January, 2015.

BANK OF AMERICA CORPORATION

By: /s/ ROSS E. JEFFRIES, JR.

Name: _____
Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

Exhibit N

**Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA
CERTIFICATE OF DESIGNATIONS
OF
FIXED-TO-FLOATING RATE
NON-CUMULATIVE PREFERRED STOCK, SERIES AA
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the New Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on March 12, 2015, in accordance with Section 141(f) of the General Corporation Law:

RESOLVED, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 12, 2015, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA” (the “*Series AA Preferred Stock*”). Each share of Series AA Preferred Stock shall be identical in all respects to every other share of Series AA Preferred Stock. Series AA Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series AA Preferred Stock shall be 76,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series AA Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series AA Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series AA Preferred Stock:

“*Business Day*” means, for the Fixed Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina; and, for the Floating Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina and is a London Banking Day.

“*Calculation Agent*” shall mean The Bank of New York Mellon Trust Company, N.A., or such other bank or entity as may be appointed by the Corporation to act as calculation agent for the Series AA Preferred Stock during the Floating Rate Period (as defined below).

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series AA Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares

of the Series AA Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series AA Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series AA Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series AA Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of “Three-Month LIBOR.”

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Fixed Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Floating Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series AA Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (h) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (j) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (m) 6.625% Non-Cumulative Preferred Stock, Series W, (n) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (o) 6.500% Non-Cumulative Preferred Stock, Series Y, (p) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (q) Floating Rate Non-Cumulative Preferred Stock, Series 1, (r) Floating Rate Non-Cumulative Preferred Stock, Series 2, (s) 6.375% Non-Cumulative Preferred Stock, Series 3, (t) Floating Rate Non-Cumulative Preferred Stock, Series 4, (u) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (v) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series AA Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Reuters Screen Page “LIBOR01”*” means the display page so designated on Reuters (or any other page as may replace that page on that service, or any other service as may be nominated as the information vendor, for the purpose of displaying London interbank offered rates for U.S. dollar deposits).

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series AA Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series AA Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“*Three-Month LIBOR*” means, with respect to any Dividend Period in the Floating Rate Period, the offered rate (expressed as a percentage *per annum*) for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Reuters Screen Page “LIBOR01” as of 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend Determination Date*”). If such rate does not appear on Reuters Screen Page “LIBOR01,” Three-Month LIBOR will be determined on the basis of the rates at

which deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000 are offered to prime banks in the London interbank market by four major banks in the London interbank market selected by the Calculation Agent (in consultation with the Corporation), at approximately 11:00 a.m., London time on the second London Banking Day immediately preceding the first day of that Dividend Period. The Calculation Agent will request the principal London office of each of such banks to provide a quotation of its rate. If at least two such quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of such quotations. If fewer than two quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of the rates quoted by three major banks in New York City selected by the Calculation Agent (in consultation with the Corporation), at approximately 11:00 a.m., New York City time, on the first day of that Dividend Period for loans in U.S. dollars to leading European banks for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000. However, if fewer than three banks selected by the Calculation Agent (in consultation with the Corporation) to provide quotations are quoting as described above, Three-Month LIBOR for that Dividend Period will be the same as Three-Month LIBOR as determined for the previous Dividend Period, or in the case of the first Dividend Period in the Floating Rate Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had the dividend rate been a floating rate during the Fixed Rate Period (as defined below). The Calculation Agent's establishment of Three-Month LIBOR and calculation of the amount of dividends for each Dividend Period in the Floating Rate Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series AA Preferred Stock upon request and will be final and binding in the absence of manifest error.

Section 4. Dividends.

(a) Rate. Holders of Series AA Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series AA Preferred Stock, and no more, payable (x) for the Fixed Rate Period, semi-annually in arrears on March 17 and September 17 of each year, beginning on September 17, 2015, and (y) for the Floating Rate Period, quarterly in arrears on each March 17, June 17, September 17 and December 17, beginning on June 17, 2025; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless, for the Fixed Rate Period, that day falls in the next calendar year or, for the Floating Rate Period, that day falls in the next calendar month, then in each such case payment of such dividend will occur on the immediately preceding Business Day) (i) on or prior to March 17, 2025, without any interest or other payment in respect of such delay, and (ii) after March 17, 2025, with dividends accruing to the actual payment date (each such day on which dividends are payable a "Dividend Payment Date"). The period from, and including, the date of issuance of the Series AA Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a "Dividend Period." Dividends on each share of Series AA Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a ~~rate~~*per annum* equal to (1) 6.100%, for each Dividend Period from the issue date to, but excluding, March 17, 2025 (the "Fixed Rate Period"), and (2) thereafter, Three-Month LIBOR plus a spread of 3.898%, for each Dividend Period from, and including, March 17, 2025 (the "Floating Rate Period"). The record date for payment of dividends on the Series AA Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. For the Fixed Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. For the Floating Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series AA Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series AA Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series AA Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series AA Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series AA Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior

Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series AA Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series AA Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series AA Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series AA Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series AA Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series AA Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series AA Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series AA Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series AA Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series AA Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series AA Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series AA Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series AA Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series AA Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series AA Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series AA Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series AA Preferred Stock at the time outstanding, at any time on or after March 17, 2025, or (ii) in whole but not in part, at

any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series AA Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series AA Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series AA Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series AA Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series AA Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series AA Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series AA Preferred Stock at the time outstanding, the shares of Series AA Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series AA Preferred Stock in proportion to the number of Series AA Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series AA Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series AA Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series AA Preferred Stock or any other class or series of preferred stock that ranks on parity with Series AA Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least three or more semi-annual or six or more quarterly Dividend Periods (whether consecutive or not), as applicable, the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series AA Preferred Stock (together with holders of any class of the Corporation’s authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have

the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series AA Preferred Stock and any other class or series of preferred stock that ranks on parity with Series AA Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series AA Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series AA Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series AA Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series AA Preferred Stock and any other class or series of preferred stock that ranks on parity with Series AA Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series AA Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series AA Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series AA Preferred Stock and any other class or series of preferred stock that ranks on parity with Series AA Preferred Stock as to payment of dividends, if any, for the equivalent of at least two semi-annual or four quarterly Dividend Periods, as applicable, then the right of the holders of Series AA Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series AA Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series AA Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66 $\frac{2}{3}$ % of the voting power of the Series AA Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series AA Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series AA Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66 $\frac{2}{3}$ % of the shares of the Series AA Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series AA Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series AA Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series AA Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series AA Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series AA Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series AA Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series AA Preferred Stock, with proper notice and sufficient funds having been set aside for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series AA Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series AA Preferred Stock shall not have any rights of preemption or rights to convert such Series AA Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series AA Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series AA Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series AA Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series AA Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 17th day of March, 2015.

BANK OF AMERICA CORPORATION

/s/ ROSS E. JEFFRIES, JR.

By:

Name: Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

Exhibit O

6.200% Non-Cumulative Preferred Stock, Series CC

**CERTIFICATE OF DESIGNATIONS
OF
6.200% NON-CUMULATIVE PREFERRED STOCK, SERIES CC
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the New Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on January 21, 2016, in accordance with Section 141(f) of the General Corporation Law:

RESOLVED, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 12, 2015, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “6.200% Non-Cumulative Preferred Stock, Series CC” (the “*Series CC Preferred Stock*”). Each share of Series CC Preferred Stock shall be identical in all respects to every other share of Series CC Preferred Stock. Series CC Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series CC Preferred Stock shall be 44,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series CC Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series CC Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series CC Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series CC Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series CC Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series CC Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series CC Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations

of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series CC Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series CC Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (h) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (j) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (m) 6.625% Non-Cumulative Preferred Stock, Series W, (n) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (o) 6.500% Non-Cumulative Preferred Stock, Series Y, (p) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (q) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (r) Floating Rate Non-Cumulative Preferred Stock, Series 1, (s) Floating Rate Non-Cumulative Preferred Stock, Series 2, (t) 6.375% Non-Cumulative Preferred Stock, Series 3, (u) Floating Rate Non-Cumulative Preferred Stock, Series 4, (v) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (w) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series CC Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series CC Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series CC Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

Section 4. Dividends.

(a) Rate. Holders of Series CC Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series CC Preferred Stock, and no more, payable quarterly in arrears on January 29, April 29, July 29 and October 29 of each year, beginning on April 29, 2016; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day), without any interest or other payment in respect of such delay (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from, and including, the date of issuance of the Series CC Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series CC Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to 6.200%. The record date for payment of dividends on the Series CC Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. The amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series CC Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series CC Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation

shall have no obligation to pay, and the holders of Series CC Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series CC Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series CC Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series CC Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series CC Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series CC Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series CC Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series CC Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series CC Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series CC Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series CC Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series CC Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series CC Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series CC Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series CC Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series CC Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series CC Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series CC Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series CC Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the

Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series CC Preferred Stock at the time outstanding, at any time on or after January 29, 2021 or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series CC Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series CC Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series CC Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series CC Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series CC Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series CC Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series CC Preferred Stock at the time outstanding, the shares of Series CC Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series CC Preferred Stock in proportion to the number of Series CC Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series CC Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series CC Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series CC Preferred Stock or any other class or series of preferred stock that ranks on parity with Series CC Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least six or more quarterly Dividend Periods (whether consecutive or not), the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series CC Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series CC Preferred Stock and any other class or series of preferred stock that ranks on parity with Series CC Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series CC Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series CC Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series CC Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series CC Preferred Stock and any other class or series of preferred stock that ranks on parity with Series CC Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series CC Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series CC Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series CC Preferred Stock and any other class or series of preferred stock that ranks on parity with Series CC Preferred Stock as to payment of dividends, if any, for the equivalent of at least four quarterly Dividend Periods, then the right of the holders of Series CC Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series CC Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series CC Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66⅔% of the voting power of the Series CC Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any

capital stock ranking senior to the Series CC Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series CC Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66⅔% of the shares of the Series CC Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series CC Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series CC Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series CC Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series CC Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series CC Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series CC Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series CC Preferred Stock, with proper notice and sufficient funds having been set aside for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series CC Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series CC Preferred Stock shall not have any rights of preemption or rights to convert such Series CC Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series CC Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series CC Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series CC Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series CC Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 29th day of January, 2016.

BANK OF AMERICA CORPORATION

By: /s/ Ross E. Jeffries, Jr.

Name: _____
Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

Exhibit P

Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD
CERTIFICATE OF DESIGNATIONS
OF
FIXED-TO-FLOATING RATE
NON-CUMULATIVE PREFERRED STOCK, SERIES DD
OF
BANK OF AMERICA CORPORATION

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the New Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on March 7, 2016, in accordance with Section 141(f) of the General Corporation Law:

RESOLVED, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 12, 2015, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD” (the “*Series DD Preferred Stock*”). Each share of Series DD Preferred Stock shall be identical in all respects to every other share of Series DD Preferred Stock. Series DD Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series DD Preferred Stock shall be 40,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series DD Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series DD Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series DD Preferred Stock:

“*Business Day*” means, for the Fixed Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina; and, for the Floating Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina and is a London Banking Day.

“*Calculation Agent*” shall mean The Bank of New York Mellon Trust Company, N.A., or such other bank or entity as may be appointed by the Corporation to act as calculation agent for the Series DD Preferred Stock during the Floating Rate Period (as defined below).

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series DD Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares

of the Series DD Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series DD Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series DD Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series DD Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of “Three-Month LIBOR.”

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Fixed Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Floating Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series DD Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (h) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (j) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (m) 6.625% Non-Cumulative Preferred Stock, Series W, (n) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (o) 6.500% Non-Cumulative Preferred Stock, Series Y, (p) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (q) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (r) 6.200% Non-Cumulative Preferred Stock, Series CC, (s) Floating Rate Non-Cumulative Preferred Stock, Series 1, (t) Floating Rate Non-Cumulative Preferred Stock, Series 2, (u) 6.375% Non-Cumulative Preferred Stock, Series 3, (v) Floating Rate Non-Cumulative Preferred Stock, Series 4, (w) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (x) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series DD Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Reuters Screen Page “LIBOR01”*” means the display page so designated on Reuters (or any other page as may replace that page on that service, or any other service as may be nominated as the information vendor, for the purpose of displaying London interbank offered rates for U.S. dollar deposits).

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series DD Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series DD Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“*Three-Month LIBOR*” means, with respect to any Dividend Period in the Floating Rate Period, the offered rate (expressed as a percentage *per annum*) for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Reuters Screen Page “LIBOR01” as of 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend*”).

Determination Date”). If such rate does not appear on Reuters Screen Page “LIBOR01,” Three-Month LIBOR will be determined on the basis of the rates at which deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000 are offered to prime banks in the London interbank market by four major banks in the London interbank market selected and identified by the Corporation, at approximately 11:00 a.m., London time on the second London Banking Day immediately preceding the first day of that Dividend Period. The Calculation Agent will request the principal London office of each of such banks to provide a quotation of its rate. If at least two such quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of such quotations. If fewer than two quotations are provided, Three-Month LIBOR with respect to that Dividend Period will be the arithmetic mean (rounded upward if necessary to the nearest .00001 of 1%) of the rates quoted by three major banks in New York City selected and identified by the Corporation, at approximately 11:00 a.m., New York City time, on the first day of that Dividend Period for loans in U.S. dollars to leading European banks for a three-month period commencing on the first day of that Dividend Period and in a principal amount of not less than \$1,000,000. However, if fewer than three banks selected and identified by the Corporation to provide quotations are quoting as described above, Three-Month LIBOR for that Dividend Period will be the same as Three-Month LIBOR as determined for the previous Dividend Period, or in the case of the first Dividend Period in the Floating Rate Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had the dividend rate been a floating rate during the Fixed Rate Period (as defined below). The Calculation Agent’s establishment of Three-Month LIBOR and calculation of the amount of dividends for each Dividend Period in the Floating Rate Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series DD Preferred Stock upon request and will be final and binding in the absence of manifest error.

Section 4. Dividends.

(a) Rate. Holders of Series DD Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series DD Preferred Stock, and no more, payable (x) for the Fixed Rate Period, semi-annually in arrears on March 10 and September 10 of each year, beginning on September 10, 2016, and (y) for the Floating Rate Period, quarterly in arrears on each March 10, June 10, September 10 and December 10, beginning on June 10, 2026; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless, for the Fixed Rate Period, that day falls in the next calendar year or, for the Floating Rate Period, that day falls in the next calendar month, then in each such case payment of such dividend will occur on the immediately preceding Business Day) (i) on or prior to March 10, 2026, without any interest or other payment in respect of such delay, and (ii) after March 10, 2026, with dividends accruing to the actual payment date (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from, and including, the date of issuance of the Series DD Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series DD Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a *ratap~~er~~ annum* equal to (1) 6.300%, for each Dividend Period from the issue date to, but excluding, March 10, 2026 (the “*Fixed Rate Period*”), and (2) thereafter, Three-Month LIBOR plus a spread of 4.553%, for each Dividend Period from, and including, March 10, 2026 (the “*Floating Rate Period*”). The record date for payment of dividends on the Series DD Preferred Stock shall be the fifteenth day of the calendar month preceding the month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. For the Fixed Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. For the Floating Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series DD Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series DD Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series DD Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series DD Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series DD Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall

be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series DD Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series DD Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series DD Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series DD Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series DD Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series DD Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series DD Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series DD Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series DD Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series DD Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series DD Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series DD Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series DD Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series DD Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series DD Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series DD Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series DD Preferred Stock at the time outstanding, at any time on or after March 10, 2026, or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series DD Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series DD Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series DD Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series DD Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series DD Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series DD Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series DD Preferred Stock at the time outstanding, the shares of Series DD Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series DD Preferred Stock in proportion to the number of Series DD Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series DD Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series DD Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series DD Preferred Stock or any other class or series of preferred stock that ranks on parity with Series DD Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least three or more semi-annual or six or more

quarterly Dividend Periods (whether consecutive or not), as applicable, the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series DD Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series DD Preferred Stock and any other class or series of preferred stock that ranks on parity with Series DD Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series DD Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series DD Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series DD Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series DD Preferred Stock and any other class or series of preferred stock that ranks on parity with Series DD Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series DD Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series DD Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series DD Preferred Stock and any other class or series of preferred stock that ranks on parity with Series DD Preferred Stock as to payment of dividends, if any, for the equivalent of at least two semi-annual or four quarterly Dividend Periods, as applicable, then the right of the holders of Series DD Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series DD Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series DD Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66 $\frac{2}{3}$ % of the voting power of the Series DD Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series DD Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as

any shares of the Series DD Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66⅔% of the shares of the Series DD Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series DD Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series DD Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series DD Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series DD Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series DD Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series DD Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series DD Preferred Stock, with proper notice and sufficient funds having been set aside for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series DD Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series DD Preferred Stock shall not have any rights of preemption or rights to convert such Series DD Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series DD Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series DD Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series DD Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series DD Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 10th day of March, 2016.

BANK OF AMERICA CORPORATION

By: /s/ ROSS E. JEFFRIES, JR.
Name: Ross E. Jeffries, Jr.
Title: Deputy General Counsel and Corporate Secretary

Exhibit Q

6.000% Non-Cumulative Preferred Stock, Series EE
CERTIFICATE OF DESIGNATIONS
OF
6.000% NON-CUMULATIVE PREFERRED STOCK, SERIES EE
OF
BANK OF AMERICA CORPORATION

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the New Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on April 18, 2016, in accordance with Section 141(f) of the General Corporation Law:

Resolved, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 12, 2015, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “6.000% Non-Cumulative Preferred Stock, Series EE” (the “*Series EE Preferred Stock*”). Each share of Series EE Preferred Stock shall be identical in all respects to every other share of Series EE Preferred Stock. Series EE Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series EE Preferred Stock shall be 36,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series EE Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series EE Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series EE Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series EE Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series EE Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series EE Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series EE Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series EE Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series EE Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (h) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (j) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (m) 6.625% Non-Cumulative Preferred Stock, Series W, (n) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (o) 6.500% Non-Cumulative Preferred Stock, Series Y, (p) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (q) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (r) 6.200% Non-Cumulative Preferred Stock, Series CC, (s) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD, (t) Floating Rate Non-Cumulative Preferred Stock, Series 1, (u) Floating Rate Non-Cumulative Preferred Stock, Series 2, (v) 6.375% Non-Cumulative Preferred Stock, Series 3, (w) Floating Rate Non-Cumulative Preferred Stock, Series 4, (x) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (y) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series EE Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series EE Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series EE Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

Section 4. Dividends.

(a) Rate. Holders of Series EE Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series EE Preferred Stock, and no more, payable quarterly in arrears on January 25, April 25, July 25 and October 25 of each year, beginning on July 25, 2016; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day), without any interest or other payment in respect of such delay (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from, and including, the date of issuance of the Series EE Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series EE Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to 6.000%. The record date for payment of dividends on the Series EE Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. The amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series EE Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series EE Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series EE Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for

any subsequent Dividend Period with respect to Series EE Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series EE Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series EE Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series EE Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series EE Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series EE Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series EE Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series EE Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series EE Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series EE Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series EE Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series EE Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series EE Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series EE Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series EE Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series EE Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series EE Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series EE Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination

transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series EE Preferred Stock at the time outstanding, at any time on or after April 25, 2021 or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series EE Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series EE Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 days and not more than 60 days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series EE Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series EE Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series EE Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series EE Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series EE Preferred Stock at the time outstanding, the shares of Series EE Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series EE Preferred Stock in proportion to the number of Series EE Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series EE Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the "*Depository Company*") in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series EE Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series EE Preferred Stock or any other class or series of preferred stock that ranks on parity with Series EE Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least six or more quarterly Dividend Periods (whether consecutive or not), the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series EE Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series EE Preferred Stock and any other class or series of preferred stock that ranks on parity with Series EE Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series EE Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series EE Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series EE Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series EE Preferred Stock and any other class or series of preferred stock that ranks on parity with Series EE Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series EE Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series EE Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series EE Preferred Stock and any other class or series of preferred stock that ranks on parity with Series EE Preferred Stock as to payment of dividends, if any, for the equivalent of at least four quarterly Dividend Periods, then the right of the holders of Series EE Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series EE Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series EE Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66⅔% of the voting power of the Series EE Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any

capital stock ranking senior to the Series EE Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series EE Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66 $\frac{2}{3}$ % of the shares of the Series EE Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series EE Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series EE Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series EE Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series EE Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series EE Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series EE Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series EE Preferred Stock, with proper notice and sufficient funds having been set aside for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series EE Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series EE Preferred Stock shall not have any rights of preemption or rights to convert such Series EE Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series EE Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series EE Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series EE Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series EE Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 25th day of April, 2016.

BANK OF AMERICA CORPORATION

By: /s/ ROSS E. JEFFRIES, JR.

Name: Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

Exhibit R

Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF

**CERTIFICATE OF DESIGNATIONS
OF
FIXED-TO-FLOATING RATE
NON-CUMULATIVE PREFERRED STOCK, SERIES FF
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on March 8, 2018, in accordance with Section 141(f) of the General Corporation Law:

RESOLVED, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 31, 2018, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF” (the “*Series FF Preferred Stock*”). Each share of Series FF Preferred Stock shall be identical in all respects to every other share of Series FF Preferred Stock. Series FF Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series FF Preferred Stock shall be 94,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series FF Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series FF Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series FF Preferred Stock:

“*Business Day*” means, for the Fixed Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina; and, for the Floating Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina and is a London Banking Day.

“*Calculation Agent*” shall mean The Bank of New York Mellon Trust Company, N.A., or such other bank or entity as may be appointed by the Corporation to act as calculation agent for the Series FF Preferred Stock during the Floating Rate Period.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United

States that is enacted or becomes effective after the initial issuance of any shares of the Series FF Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series FF Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series FF Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series FF Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series FF Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of “Three-Month LIBOR.”

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Fixed Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Floating Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series FF Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (h) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series M, (j) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (m) 6.625% Non-Cumulative Preferred Stock, Series W, (n) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (o) 6.500% Non-Cumulative Preferred Stock, Series Y, (p) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (q) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (r) 6.200% Non-Cumulative Preferred Stock, Series CC, (s) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD, (t) 6.000% Non-Cumulative Preferred Stock, Series EE, (u) Floating Rate Non-Cumulative Preferred Stock, Series 1, (v) Floating Rate Non-Cumulative Preferred Stock, Series 2, (w) 6.375% Non-Cumulative Preferred Stock, Series 3, (x) Floating Rate Non-Cumulative Preferred Stock, Series 4, (y) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (z) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series FF Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Reuters Screen Page “LIBOR01”*” means the display page so designated on Reuters (or any other page as may replace that page on that service, or any other service as may be nominated as the information vendor, for the purpose of displaying London interbank offered rates for U.S. dollar deposits).

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series FF Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series FF Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“Three-Month LIBOR” means, with respect to any Dividend Period in the Floating Rate Period, the London interbank offered rate (expressed as a percentage *per annum*) for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Reuters Screen Page “LIBOR01” at approximately 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend Determination Date*”). If no offered rate appears on Reuters Screen Page “LIBOR01” on the relevant Dividend Determination Date at approximately 11:00 a.m., London time, then the Corporation will select and identify to the Calculation Agent four major banks in the London interbank market, and the Calculation Agent will request the principal London offices of each of such banks to provide a quotation of the rate at which three-month deposits in U.S. dollars in amounts of at least \$1,000,000 are offered by it to prime banks in the London interbank market, on that date and at that time. If at least two quotations are provided, Three-Month LIBOR will be the arithmetic average (rounded upward if necessary to the nearest .00001 of 1%) of the quotations provided. If less than two quotations are provided, the Corporation will select and identify to the Calculation Agent three major banks in New York City, and the Calculation Agent will request each of such banks to provide a quotation of the rate offered by it at approximately 11:00 a.m., New York City time, on the Dividend Determination Date for loans in U.S. dollars to leading European banks for a three-month period for the applicable Dividend Period in an amount of at least \$1,000,000. If three quotations are provided, Three-Month LIBOR will be the arithmetic average of the quotations provided. Otherwise, Three-Month LIBOR for that Dividend Period will be equal to Three-Month LIBOR in effect for the then-current Dividend Period or in the case of the first Dividend Period in the Floating Rate Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had the dividend rate been a floating rate during the Fixed Rate Period.

Notwithstanding the foregoing, if the Calculation Agent determines on or prior to the relevant Dividend Determination Date, after consultation with the Corporation, that Three-Month LIBOR has been discontinued, then the Corporation will appoint in its sole discretion an investment bank of national standing, which may be an affiliate of the Corporation, to determine whether there is a substitute or successor base rate to Three-Month LIBOR that is consistent with accepted market practice. If such investment bank of national standing determines that there is such a substitute or successor base rate, the Calculation Agent shall use such substitute or successor base rate. In such case, the Calculation Agent will implement changes to the business day convention, the definition of Business Day, the Dividend Determination Date and any method for obtaining the substitute or successor base rate if such rate is unavailable on the relevant Business Day, in a manner that is consistent with industry accepted practices for such substitute or successor base rate, all as directed by the investment bank of national standing. If the investment bank of national standing determines that there is no such substitute or successor base rate as so provided above, Three-Month LIBOR for that Dividend Period will be determined in accordance with the steps provided in the immediately preceding paragraph.

Section 4. Dividends.

(a) **Rate.** Holders of Series FF Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series FF Preferred Stock, and no more, payable (x) for the Fixed Rate Period, semi-annually in arrears on March 15 and September 15 of each year, beginning on September 15, 2018, and (y) for the Floating Rate Period, quarterly in arrears on each March 15, June 15, September 15 and December 15, beginning on June 15, 2028; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless, for the Fixed Rate Period, that day falls in the next calendar year or, for the Floating Rate Period, that day falls in the next calendar month, then in each such case payment of such dividend will occur on the immediately preceding Business Day) (i) on or prior to March 15, 2028, without any interest or other payment in respect of such delay, and (ii) after March 15, 2028, with dividends accruing to the actual payment date (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from, and including, the date of issuance of the Series FF Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series FF Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to (1) 5.875%, for each Dividend Period from the issue date to, but excluding, March 15, 2028 (the “*Fixed Rate Period*”), and (2) thereafter, Three-Month LIBOR plus a spread of 2.931%, for each Dividend Period from, and including, March 15, 2028 (the “*Floating Rate Period*”). The record date for payment of dividends on the Series FF Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. For the Fixed Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. For the Floating Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward. The Calculation Agent’s establishment of Three-Month LIBOR and calculation of the amount of dividends for each Dividend Period in the Floating Rate Period will be on file at the principal offices of the

Corporation, will be made available to any holder of Series FF Preferred Stock upon request and will be final and binding in the absence of manifest error.

(b) Non-Cumulative Dividends. Dividends on shares of Series FF Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series FF Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series FF Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series FF Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series FF Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series FF Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series FF Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series FF Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series FF Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series FF Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series FF Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series FF Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series FF Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series FF Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series FF Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series FF Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series FF Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series FF Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series FF Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series FF Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series FF Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series FF Preferred Stock at the time outstanding, at any time on or after March 15, 2028, or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series FF Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series FF Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 calendar days and not more than 60 calendar days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series FF Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series FF Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series FF Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series FF Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series FF Preferred Stock at the time outstanding, the shares of Series FF Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series FF Preferred Stock in proportion to the number of Series FF Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series FF Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from such bank or trust company at any time after the redemption date from the funds so deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the

amount deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series FF Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series FF Preferred Stock or any other class or series of preferred stock that ranks on parity with Series FF Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least three or more semi-annual or six or more quarterly Dividend Periods (whether consecutive or not), as applicable, the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series FF Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series FF Preferred Stock and any other class or series of preferred stock that ranks on parity with Series FF Preferred Stock as to payment of dividends having equivalent voting rights is a "Preferred Director."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series FF Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series FF Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series FF Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series FF Preferred Stock and any other class or series of preferred stock that ranks on parity with Series FF Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series FF Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series FF Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series FF Preferred Stock and any other class or series of preferred stock that ranks on parity with Series FF Preferred Stock as to payment of dividends, if any, for the equivalent of at least two semi-annual or four quarterly Dividend Periods, as applicable, then the right of the holders of Series FF Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series FF Preferred Stock

(together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series FF Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least $66\frac{2}{3}\%$ of the voting power of the Series FF Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series FF Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series FF Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least $66\frac{2}{3}\%$ of the shares of the Series FF Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series FF Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series FF Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series FF Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series FF Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series FF Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series FF Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series FF Preferred Stock, with proper notice and sufficient funds having been set aside for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series FF Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series FF Preferred Stock shall not have any rights of preemption or rights to convert such Series FF Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series FF Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series FF Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series FF Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series FF Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 1st day of March, 2018.

BANK OF AMERICA CORPORATION

/s/ ROSS E. JEFFRIES, JR.

By:

Name: Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

Exhibit S

6.000% Non-Cumulative Preferred Stock, Series GG

**CERTIFICATE OF DESIGNATIONS
OF
6.000% NON-CUMULATIVE PREFERRED STOCK, SERIES GG
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on May 7, 2018, in accordance with Section 141(f) of the General Corporation Law:

Resolved, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 31, 2018, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “6.000% Non-Cumulative Preferred Stock, Series GG” (the “*Series GG Preferred Stock*”). Each share of Series GG Preferred Stock shall be identical in all respects to every other share of Series GG Preferred Stock. Series GG Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series GG Preferred Stock shall be 55,200. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series GG Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series GG Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series GG Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series GG Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series GG Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series GG Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series GG Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations

of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series GG Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series GG Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) 6.625% Non-Cumulative Preferred Stock, Series I, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (h) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (i) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (j) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (l) 6.625% Non-Cumulative Preferred Stock, Series W, (m) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (n) 6.500% Non-Cumulative Preferred Stock, Series Y, (o) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (p) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (q) 6.200% Non-Cumulative Preferred Stock, Series CC, (r) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD, (s) 6.000% Non-Cumulative Preferred Stock, Series EE, (t) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF, (u) Floating Rate Non-Cumulative Preferred Stock, Series 1, (v) Floating Rate Non-Cumulative Preferred Stock, Series 2, (w) 6.375% Non-Cumulative Preferred Stock, Series 3, (x) Floating Rate Non-Cumulative Preferred Stock, Series 4, (y) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (z) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series GG Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series GG Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series GG Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

Section 4. Dividends.

(a) Rate. Holders of Series GG Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series GG Preferred Stock, and no more, payable quarterly in arrears on February 16, May 16, August 16 and November 16 of each year, beginning on August 16, 2018; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day), without any interest or other payment in respect of such delay (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from, and including, the date of issuance of the Series GG Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series GG Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to 6.000%. The record date for payment of dividends on the Series GG Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. The amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series GG Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series GG Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not

accumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series GG Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series GG Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series GG Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series GG Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series GG Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series GG Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series GG Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series GG Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series GG Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series GG Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series GG Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series GG Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series GG Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series GG Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series GG Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series GG Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series GG Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series GG Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series GG Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the

property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series GG Preferred Stock at the time outstanding, at any time on or after May 16, 2023 or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series GG Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series GG Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 calendar days and not more than 60 calendar days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series GG Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series GG Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series GG Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series GG Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series GG Preferred Stock at the time outstanding, the shares of Series GG Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series GG Preferred Stock in proportion to the number of Series GG Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series GG Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from the Corporation or such bank or trust company at any time after the redemption date from the funds so set aside or deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount set aside or deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series GG Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series GG Preferred Stock or any other class or series of preferred stock that ranks on parity with Series GG Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least six or more quarterly Dividend Periods (whether consecutive or not), the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series GG Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series GG Preferred Stock and any other class or series of preferred stock that ranks on parity with Series GG Preferred Stock as to payment of dividends having equivalent voting rights is a "Preferred Director."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series GG Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series GG Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series GG Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series GG Preferred Stock and any other class or series of preferred stock that ranks on parity with Series GG Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series GG Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series GG Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series GG Preferred Stock and any other class or series of preferred stock that ranks on parity with Series GG Preferred Stock as to payment of dividends, if any, for the equivalent of at least four quarterly Dividend Periods, then the right of the holders of Series GG Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series GG Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series GG Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66 $\frac{2}{3}$ % of the voting power of the Series

GG Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series GG Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series GG Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66⅔% of the shares of the Series GG Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series GG Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series GG Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series GG Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series GG Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series GG Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series GG Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series GG Preferred Stock, with proper notice and sufficient funds having been set aside or deposited for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series GG Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series GG Preferred Stock shall not have any rights of preemption or rights to convert such Series GG Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series GG Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series GG Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series GG Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series GG Preferred Stock are not subject to the operation of a sinking fund

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 16 day of May, 2018.

BANK OF AMERICA CORPORATION

By: /s/ ROSS E. JEFFRIES, JR.

Name: _____
Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

Exhibit T

5.875% Non-Cumulative Preferred Stock, Series HH

**CERTIFICATE OF DESIGNATIONS OF
5.875% NON-CUMULATIVE PREFERRED STOCK, SERIES HH
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on July 17, 2018, in accordance with Section 141(f) of the General Corporation Law:

Resolved, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 31, 2018, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “5.875% Non-Cumulative Preferred Stock, Series HH” (the “*Series HH Preferred Stock*”). Each share of Series HH Preferred Stock shall be identical in all respects to every other share of Series HH Preferred Stock. Series HH Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series HH Preferred Stock shall be 34,160. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series HH Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series HH Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series HH Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series HH Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series HH Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series HH Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series HH Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations

of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series HH Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Payment Date*” shall have the meaning set forth in Section 4(a) hereof.

“*Dividend Period*” shall have the meaning set forth in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series HH Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) 6.204% Non-Cumulative Preferred Stock, Series D, (c) Floating Rate Non-Cumulative Preferred Stock, Series E, (d) Floating Rate Non-Cumulative Preferred Stock, Series F, (e) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (f) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, (g) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (h) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (j) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (k) 6.625% Non-Cumulative Preferred Stock, Series W, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (m) 6.500% Non-Cumulative Preferred Stock, Series Y, (n) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (o) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (p) 6.200% Non-Cumulative Preferred Stock, Series CC, (q) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD, (r) 6.000% Non-Cumulative Preferred Stock, Series EE, (s) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF, (t) 6.000% Non-Cumulative Preferred Stock, Series GG, (u) Floating Rate Non-Cumulative Preferred Stock, Series 1, (v) Floating Rate Non-Cumulative Preferred Stock, Series 2, (w) 6.375% Non-Cumulative Preferred Stock, Series 3, (x) Floating Rate Non-Cumulative Preferred Stock, Series 4, (y) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (z) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series HH Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series HH Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series HH Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

Section 4. Dividends.

(a) Rate. Holders of Series HH Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series HH Preferred Stock, and no more, payable quarterly in arrears on January 24, April 24, July 24 and October 24 of each year, beginning on October 24, 2018; provided, however, if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day), without any interest or other payment in respect of such delay (each such day on which dividends are payable a “*Dividend Payment Date*”). The period from, and including, the date of issuance of the Series HH Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date is a “*Dividend Period*.” Dividends on each share of Series HH Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to 5.875%. The record date for payment of dividends on the Series HH Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. The amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series HH Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series HH Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not

accumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series HH Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series HH Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series HH Preferred Stock remains outstanding, (i) no dividend shall be declared or paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series HH Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series HH Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series HH Preferred Stock remain outstanding, no dividends shall be declared or paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series HH Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series HH Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series HH Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series HH Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series HH Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series HH Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series HH Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series HH Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series HH Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series HH Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series HH Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series HH Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series HH Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of

the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series HH Preferred Stock at the time outstanding, at any time on or after July 24, 2023 or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series HH Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series HH Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 calendar days and not more than 60 calendar days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series HH Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series HH Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series HH Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series HH Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series HH Preferred Stock at the time outstanding, the shares of Series HH Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series HH Preferred Stock in proportion to the number of Series HH Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series HH Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from the Corporation or such bank or trust company at any time after the redemption date from the funds so set aside or deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount set aside or deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series HH Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series HH Preferred Stock or any other class or series of preferred stock that ranks on parity with Series HH Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least six or more quarterly Dividend Periods (whether consecutive or not), the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series HH Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series HH Preferred Stock and any other class or series of preferred stock that ranks on parity with Series HH Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series HH Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series HH Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series HH Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series HH Preferred Stock and any other class or series of preferred stock that ranks on parity with Series HH Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series HH Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series HH Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series HH Preferred Stock and any other class or series of preferred stock that ranks on parity with Series HH Preferred Stock as to payment of dividends, if any, for the equivalent of at least four quarterly Dividend Periods, then the right of the holders of Series HH Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series HH Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series HH Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66 $\frac{2}{3}$ % of the voting power of the Series

HH Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series HH Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series HH Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66⅔% of the shares of the Series HH Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series HH Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series HH Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series HH Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series HH Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series HH Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series HH Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series HH Preferred Stock, with proper notice and sufficient funds having been set aside or deposited for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series HH Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series HH Preferred Stock shall not have any rights of preemption or rights to convert such Series HH Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series HH Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series HH Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series HH Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series HH Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 24 day of July, 2018.

BANK OF AMERICA CORPORATION

By: /s/ ROSS E. JEFFRIES, JR.

Name: Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

Exhibit U

Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series JJ

**CERTIFICATE OF DESIGNATIONS OF
FIXED-TO-FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES JJ
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on June 17, 2019, in accordance with Section 141(f) of the General Corporation Law:

Resolved, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 31, 2018, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series JJ” (the “*Series JJ Preferred Stock*”). Each share of Series JJ Preferred Stock shall be identical in all respects to every other share of Series JJ Preferred Stock. Series JJ Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series JJ Preferred Stock shall be 40,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series JJ Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series JJ Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series JJ Preferred Stock:

“*Benchmark*” means, initially, Three-Month LIBOR; provided that if a Benchmark Transition Event and its related Benchmark Replacement Date have occurred with respect to Three-Month LIBOR or the then-current Benchmark, then “*Benchmark*” means the applicable Benchmark Replacement.

“*Benchmark Replacement*” means the Interpolated Benchmark with respect to the then-current Benchmark, plus the Benchmark Replacement Adjustment for such Benchmark; provided that if the Calculation Agent (after consulting with the Corporation) cannot determine the Interpolated Benchmark as of the Benchmark Replacement Date, then “*Benchmark Replacement*” means the first alternative set forth in the order below that can be determined by the Corporation or the Calculation Agent (after consultation with the Corporation) as of the Benchmark Replacement Date:

- (1) the sum of: (a) Term SOFR and (b) the Benchmark Replacement Adjustment;
- (2) the sum of: (a) Compounded SOFR and (b) the Benchmark Replacement Adjustment;

- (3) the sum of: (a) the alternate rate that has been selected or recommended by the Relevant Governmental Body as the replacement for the then-current Benchmark for the applicable Corresponding Tenor (if any) and (b) the Benchmark Replacement Adjustment;
- (4) the sum of: (a) the ISDA Fallback Rate and (b) the Benchmark Replacement Adjustment;
- (5) the sum of: (a) the alternate rate that has been selected by the Corporation or the Calculation Agent (after consultation with the Corporation) as the replacement for the then-current Benchmark for the applicable Corresponding Tenor giving due consideration to any industry-accepted rate as a replacement for the then-current Benchmark for U.S. dollar-denominated floating rate securities at such time and (b) the Benchmark Replacement Adjustment.

“*Benchmark Replacement Adjustment*” means the first alternative set forth in the order below that can be determined by the Corporation or the Calculation Agent (after consultation with the Corporation) as of the Benchmark Replacement Date:

- (1) the spread adjustment (which may be a positive or negative value or zero) that has been selected or recommended by the Relevant Governmental Body or determined by the Corporation or the Calculation Agent (after consultation with the Corporation) in accordance with the method for calculating or determining such spread adjustment that has been selected or recommended by the Relevant Governmental Body, in each case for the applicable Unadjusted Benchmark Replacement;
- (2) if the applicable Unadjusted Benchmark Replacement is equivalent to the ISDA Fallback Rate, then the ISDA Fallback Adjustment;
- (3) the spread adjustment (which may be a positive or negative value or zero) that has been selected by the Corporation or the Calculation Agent (after consultation with the Corporation) giving due consideration to any industry-accepted spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of the then-current Benchmark with the applicable Unadjusted Benchmark Replacement for U.S. dollar-denominated floating rate securities at such time.

“*Benchmark Replacement Conforming Changes*” means, with respect to any Benchmark Replacement, changes to (1) any Dividend Determination Date, Dividend Payment Date or Dividend Period, (2) the manner, timing and frequency of determining dividends on the Series JJ Preferred Stock and the conventions relating to such determination, (3) rounding conventions, (4) tenors and (5) any other terms or provisions of the Series JJ Preferred Stock, in each case that the Corporation or the Calculation Agent (after consulting with the Corporation) determines, from time to time, to be appropriate to reflect the implementation of such Benchmark Replacement in a manner substantially consistent with market practice (or, if the Corporation or the Calculation Agent (after consulting with the Corporation) decides that implementation of any portion of such market practice is not administratively feasible or determines that no market practice for use of the Benchmark Replacement exists, in such other manner as the Corporation or the Calculation Agent (after consulting with the Corporation) determines is appropriate).

“*Benchmark Replacement Date*” means the earliest to occur of the following events with respect to the then-current Benchmark:

- (1) in the case of clause (1) or (2) of the definition of “Benchmark Transition Event,” the later of (a) the date of the public statement or publication of information referenced therein and (b) the date on which the administrator of the Benchmark permanently or indefinitely ceases to provide the Benchmark; or
- (2) in the case of clause (3) of the definition of “Benchmark Transition Event,” the date of the public statement or publication of information referenced therein.

For the avoidance of doubt, if the event giving rise to the Benchmark Replacement Date occurs on the same day as, but earlier than, the Reference Time in respect of any determination, the Benchmark Replacement Date will be deemed to have occurred prior to the Reference Time for such determination.

“*Benchmark Transition Event*” means the occurrence of one or more of the following events with respect to the then-current Benchmark:

- (1) a public statement or publication of information by or on behalf of the administrator of the Benchmark announcing that such administrator has ceased or will cease to provide the Benchmark, permanently or indefinitely, provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide the Benchmark;

- (2) a public statement or publication of information by the regulatory supervisor for the administrator of the Benchmark, the central bank for the currency of the Benchmark, an insolvency official with jurisdiction over the administrator for the Benchmark, a resolution authority with jurisdiction over the administrator for the Benchmark or a court or an entity with similar insolvency or resolution authority over the administrator for the Benchmark, which states that the administrator of the Benchmark has ceased or will cease to provide the Benchmark permanently or indefinitely, provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide the Benchmark; or
- (3) a public statement or publication of information by the regulatory supervisor for the administrator of the Benchmark announcing that the Benchmark is no longer representative.

“*Business Day*” means, for the Fixed Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina; and, for the Floating Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina and is a London Banking Day, subject to change in accordance with Section 4(a) hereof in the event a Benchmark Transition Event and Benchmark Replacement Date have occurred.

“*Calculation Agent*” shall mean The Bank of New York Mellon Trust Company, N.A., or such other bank or entity (which may be an affiliate of the Corporation) as may be appointed by the Corporation to act as calculation agent for the Series JJ Preferred Stock during the Floating Rate Period.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series JJ Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series JJ Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series JJ Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series JJ Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series JJ Preferred Stock is outstanding.

“*Compounded SOFR*” means the compounded average of SOFRs for the applicable Corresponding Tenor, with the rate, or methodology for this rate, and conventions for this rate being established by the Corporation or the Calculation Agent (after consulting with the Corporation) in accordance with:

- (1) the rate, or methodology for this rate, and conventions for this rate selected or recommended by the Relevant Governmental Body for determining Compounded SOFR; provided that:
- (2) if, and to the extent that, the Corporation or the Calculation Agent (after consulting with the Corporation) determine that Compounded SOFR cannot be determined in accordance with clause (1) above, then the rate, or methodology for this rate, and conventions for this rate that have been selected by Corporation or the Calculation Agent (after consulting with the Corporation) giving due consideration to any industry-accepted market practice for U.S. dollar-denominated floating rate securities at such time.

“*Corresponding Tenor*” with respect to a Benchmark Replacement means a tenor (including overnight) having approximately the same length (disregarding business day adjustment) as the applicable tenor for the then-current Benchmark.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of Three-Month LIBOR in Section 4(a) hereof.

“*Dividend Payment Date*” means, for the Fixed Rate Period, June 20 and December 20 of each year, and for the Floating Rate Period, March 20, June 20, September 20, and December 20 of each year, subject to adjustment for non-Business Days as described in Section 4(a) hereof.

“*Dividend Period*” means the period from, and including, the date of issuance of the Series JJ Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date, subject to adjustment as described in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Federal Reserve Bank of New York’s Website*” means the website of the Federal Reserve Bank of New York at <http://www.newyorkfed.org>, or any successor source.

“*Fixed Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Floating Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Interpolated Benchmark*” with respect to the Benchmark means the rate determined for the Corresponding Tenor by interpolating on a linear basis between: (1) the Benchmark for the longest period (for which the Benchmark is available) that is shorter than the Corresponding Tenor and (2) the Benchmark for the shortest period (for which the Benchmark is available) that is longer than the Corresponding Tenor. If the Benchmark with respect to which the Interpolated Benchmark is being determined is Three-Month LIBOR, then the term “Benchmark” as used in clause (1) and (2) of the foregoing definition means the London interbank offered rate for deposits in U.S. dollars for the applicable periods specified in such clauses.

“*ISDA Definitions*” means the 2006 ISDA Definitions published by the International Swaps and Derivatives Association, Inc. or any successor thereto, as amended or supplemented from time to time, or any successor definitional booklet for interest rate derivatives published from time to time.

“*ISDA Fallback Adjustment*” means the spread adjustment (which may be a positive or negative value or zero) that would apply for derivatives transactions referencing the ISDA Definitions to be determined upon the occurrence of an index cessation event with respect to the Benchmark for the applicable tenor.

“*ISDA Fallback Rate*” means the rate that would apply for derivatives transactions referencing the ISDA Definitions to be effective upon the occurrence of an index cessation date with respect to the Benchmark for the applicable tenor excluding the applicable ISDA Fallback Adjustment.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series JJ Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) Floating Rate Non-Cumulative Preferred Stock, Series E, (c) Floating Rate Non-Cumulative Preferred Stock, Series F, (d) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (e) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (f) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (h) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (i) 6.625% Non-Cumulative Preferred Stock, Series W, (j) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (k) 6.500% Non-Cumulative Preferred Stock, Series Y, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (m) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (n) 6.200% Non-Cumulative Preferred Stock, Series CC, (o) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD, (p) 6.000% Non-Cumulative Preferred Stock, Series EE, (q) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF, (r) 6.000% Non-Cumulative Preferred Stock, Series GG, (s) 5.875% Non-Cumulative Preferred Stock, Series HH, (t) Floating Rate Non-Cumulative Preferred Stock, Series 1, (u) Floating Rate Non-Cumulative Preferred Stock, Series 2, (v) Floating Rate Non-Cumulative Preferred Stock, Series 4, (w) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (x) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series JJ Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Reference Time*” with respect to any determination of the Benchmark means (1) if the Benchmark is Three-Month LIBOR, 11:00 a.m. (London time) on the relevant Dividend Determination Date, and (2) if the Benchmark is not Three-Month LIBOR, the time determined by the Corporation or the Calculation Agent (after consulting with the Corporation) in accordance with the Benchmark Replacement Conforming Changes.

“*Relevant Governmental Body*” means the Federal Reserve and/or the Federal Reserve Bank of New York, or a committee officially endorsed or convened by the Federal Reserve and/or the Federal Reserve Bank of New York or any successor thereto.

“*Reuters Screen Page “LIBOR01”*” means the display on the Thomson Reuters Eikon service, or any successor or replacement service, on page LIBOR01, for the purpose of displaying London interbank offered rates of major banks for U.S. dollar deposits, or any successor or replacement page or pages on that service.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series JJ Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series JJ Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“*SOFR*” with respect to any day means the secured overnight financing rate published for such day by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve Bank of New York’s Website.

“*Term SOFR*” means the forward-looking term rate for the applicable Corresponding Tenor based on SOFR that has been selected or recommended by the Relevant Governmental Body.

“*Three-Month LIBOR*” shall have the meaning set forth in Section 4(a) hereof.

“*Unadjusted Benchmark Replacement*” means the Benchmark Replacement excluding the Benchmark Replacement Adjustment.

Section 4. Dividends.

(a) Rate. Holders of Series JJ Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series JJ Preferred Stock, and no more, payable (x) for the Fixed Rate Period (as defined below), semi-annually in arrears on June 20 and December 20 of each year, beginning on December 20, 2019; provided, however, that if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day), in each case, without any additional dividends accruing or other payment adjustment and the relevant Dividend Period will not be adjusted; and (y) for the Floating Rate Period (as defined below), quarterly in arrears on March 20, June 20, September 20 and December 20 of each year, beginning on September 20, 2024; provided, however, that if any such day is not a Business Day, then the next succeeding day that is a Business Day will be the Dividend Payment Date for the relevant Dividend Period (unless that day falls in the next calendar month, in which case the immediately preceding Business Day will be the Dividend Payment Date for the relevant Dividend Period), in each case, with dividends accruing to, but excluding, the actual payment date, and the relevant Dividend Period will be adjusted accordingly. Dividends on each share of Series JJ Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to (1) 5.125%, for each Dividend Period from, and including, the issue date to, but excluding, June 20, 2024 (the “*Fixed Rate Period*”), and (2) thereafter, Three-Month LIBOR (as defined below) (which rate is subject to replacement as described below) plus a spread of 3.292%, for each Dividend Period from, and including, June 20, 2024 (the “*Floating Rate Period*”). If a Benchmark Transition Event and its related Benchmark Replacement Date occur with respect to Three-Month LIBOR, then dividends on the Preferred Stock during the Floating Rate Period thereafter will be determined not by reference to Three-Month LIBOR but instead by reference to the Benchmark Replacement, and, in connection with the implementation of the applicable Benchmark Replacement, the Corporation or the Calculation Agent (after consultation with the Corporation) may from time to time, on or after the Benchmark Replacement Date, to make Benchmark Replacement Conforming Changes, and any such Benchmark Replacement Conforming Changes will be deemed incorporated herein by reference and supersede and supplement the provisions of this Section 4(a) to the extent applicable.

“*Three-Month LIBOR*” means, with respect to any Dividend Period in the Floating Rate Period, the London interbank offered rate for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Reuters Screen Page “LIBOR01” at approximately 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “*Dividend Determination Date*”). If no such offered rate appears on Reuters Screen Page “LIBOR01” on the relevant Dividend Determination Date at approximately 11:00 a.m.,

London time, then the Corporation will select and identify to the Calculation Agent four major banks in the London interbank market, and the Calculation Agent will request each such bank to provide a quotation of the rate at which three-month deposits in U.S. dollars in amounts of at least \$1,000,000 commencing on the first day of the Dividend Period relating to such Dividend Determination Date are offered by it to prime banks in the London interbank market, at approximately 11:00 a.m. London time, on that Dividend Determination Date. If at least two quotations are provided, Three-Month LIBOR will be the arithmetic average (rounded upward if necessary to the nearest .00001%) of the quotations provided. If fewer than two quotations are provided, the Corporation will select and identify to the Calculation Agent three major banks in New York City, and the Calculation Agent will request each of such banks to provide a quotation of the rate offered by it at approximately 11:00 a.m., New York City time, on the Dividend Determination Date for loans in U.S. dollars to leading European banks for a three-month period for the applicable Dividend Period in an amount of at least \$1,000,000. If three quotations are provided, Three-Month LIBOR will be the arithmetic average of the quotations provided. Otherwise, Three-Month LIBOR for the applicable Dividend Period will be equal to Three-Month LIBOR in effect for the then-current Dividend Period or, in the case of the first Dividend Period during the Floating Rate Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had the dividend rate been a floating rate during the Fixed Rate Period.

Notwithstanding the foregoing paragraph, if the Corporation or the Calculation Agent (after consultation with the Corporation) determines on or prior to the relevant Dividend Determination Date that a Benchmark Transition Event and its related Benchmark Replacement Date have occurred prior to the Reference Time in respect of any determination of Three-Month LIBOR or the then-current Benchmark on any date, the Benchmark Replacement will replace the then-current Benchmark for all purposes relating to the Preferred Stock during the Floating Rate Period in respect of such determination on such date and all determinations on subsequent dates. In connection with the implementation of a Benchmark Replacement, the Corporation or the Calculation Agent (after consultation with the Corporation) may make Benchmark Replacement Conforming Changes from time to time. Any determination, decision or election that may be made by Corporation or the Calculation Agent (after consultation with the Corporation) pursuant to this paragraph (including Benchmark Replacement Conforming Changes) and definitions related thereto, and any decision to take or refrain from taking any action or any selection (i) will be conclusive and binding absent manifest error; (ii) if made by the Corporation, will be made in the sole discretion of the Corporation; (iii) if made by the Calculation Agent, will be made after consultation with the Corporation, and the Calculation Agent will not make any such determination, decision or election to which the Corporation objects; and (iv) shall be deemed incorporated herein by reference and be part of the terms of the Series JJ Preferred Stock without consent from the holders of the Preferred Stock or any other party. Any determination, decision or election pursuant to the foregoing paragraphs not made by the Calculation Agent will be made by the Corporation on the basis as described above. In addition, the Corporation may designate an entity (which may be the Corporation's affiliate) to make any determination, decision or election that the Corporation has the right to make in connection with the foregoing paragraphs. For so long as any share of the Series JJ Preferred Stock is outstanding, the Corporation will maintain a record of any Benchmark Replacement and Benchmark Replacement Conforming Changes, and will provide a copy of such record to holders of the Series JJ Preferred Stock upon written request to the Corporation.

The record date for payment of dividends on the Series JJ Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. For the Fixed Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. For the Floating Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward. The Calculation Agent's establishment of Three-Month LIBOR or the Benchmark Replacement, as applicable, and calculation of the amount of dividends for each Dividend Period in the Floating Rate Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series JJ Preferred Stock upon written request and will be final and binding in the absence of manifest error.

(b) Non-Cumulative Dividends. Dividends on shares of Series JJ Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series JJ Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series JJ Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series JJ Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series JJ Preferred Stock remains outstanding, (i) no dividend shall be declared and paid or set aside for payment and no distribution shall be declared and made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be

repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series JJ Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series JJ Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series JJ Preferred Stock remain outstanding, no dividends shall be declared and paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series JJ Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series JJ Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series JJ Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series JJ Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series JJ Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series JJ Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series JJ Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series JJ Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series JJ Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series JJ Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series JJ Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series JJ Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series JJ Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of

Series JJ Preferred Stock at the time outstanding, at any time on or after June 20, 2024 or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series JJ Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series JJ Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 calendar days and not more than 60 calendar days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series JJ Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series JJ Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series JJ Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series JJ Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series JJ Preferred Stock at the time outstanding, the shares of Series JJ Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series JJ Preferred Stock in proportion to the number of Series JJ Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series JJ Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depositary Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from the Corporation or such bank or trust company at any time after the redemption date from the funds so set aside or deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depositary Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount set aside or deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series JJ Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series JJ Preferred Stock or any other class or series of preferred stock that ranks on parity with Series JJ Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least three or more semi-annual or six or more quarterly Dividend Periods (whether consecutive or not), as applicable, the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series JJ Preferred Stock (together with holders of any class of the Corporation’s authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred

stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series JJ Preferred Stock and any other class or series of preferred stock that ranks on parity with Series JJ Preferred Stock as to payment of dividends having equivalent voting rights is a "Preferred Director."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series JJ Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series JJ Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series JJ Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series JJ Preferred Stock and any other class or series of preferred stock that ranks on parity with Series JJ Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series JJ Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series JJ Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series JJ Preferred Stock and any other class or series of preferred stock that ranks on parity with Series JJ Preferred Stock as to payment of dividends, if any, for the equivalent of at least two semi-annual or four quarterly Dividend Periods, as applicable, then the right of the holders of Series JJ Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series JJ Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series JJ Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least $66\frac{2}{3}\%$ of the voting power of the Series JJ Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series JJ Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series JJ Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least $66\frac{2}{3}\%$ of the shares of the Series JJ Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series JJ Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series JJ Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series JJ Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series JJ Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series JJ Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series JJ Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series JJ Preferred Stock, with proper notice and sufficient funds having been set aside or deposited for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series JJ Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series JJ Preferred Stock shall not have any rights of preemption or rights to convert such Series JJ Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series JJ Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series JJ Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series JJ Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series JJ Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 20th day of June, 2019.

BANK OF AMERICA CORPORATION

/s/ ROSS E. JEFFRIES, JR.

By:

Name: Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

Exhibit V

5.375% Non-Cumulative Preferred Stock, Series KK

**CERTIFICATE OF DESIGNATIONS OF
5.375% NON-CUMULATIVE PREFERRED STOCK, SERIES KK
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on June 18, 2019, in accordance with Section 141(f) of the General Corporation Law:

Resolved, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors dated January 31, 2018, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “5.375% Non-Cumulative Preferred Stock, Series KK” (the “*Series KK Preferred Stock*”). Each share of Series KK Preferred Stock shall be identical in all respects to every other share of Series KK Preferred Stock. Series KK Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series KK Preferred Stock shall be 60,950. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series KK Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series KK Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series KK Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series KK Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series KK Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series KK Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series KK Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series KK Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Payment Date*” means March 25, June 25, September 25 and December 25 of each year, beginning on September 25, 2019.

“*Dividend Period*” means the period from, and including, the date of issuance of the Series KK Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series KK Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) Floating Rate Non-Cumulative Preferred Stock, Series E, (c) Floating Rate Non-Cumulative Preferred Stock, Series F, (d) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (e) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (f) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (h) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (i) 6.625% Non-Cumulative Preferred Stock, Series W, (j) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (k) 6.500% Non-Cumulative Preferred Stock, Series Y, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (m) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (n) 6.200% Non-Cumulative Preferred Stock, Series CC, (o) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD, (p) 6.000% Non-Cumulative Preferred Stock, Series EE, (q) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF, (r) 6.000% Non-Cumulative Preferred Stock, Series GG, (s) 5.875% Non-Cumulative Preferred Stock, Series HH, (t) Floating Rate Non-Cumulative Preferred Stock, Series 1, (u) Floating Rate Non-Cumulative Preferred Stock, Series 2, (v) Floating Rate Non-Cumulative Preferred Stock, Series 4, (w) Floating Rate Non-Cumulative Preferred Stock, Series 5, (x) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series JJ, and (y) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series KK Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series KK Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series KK Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

Section 4. Dividends.

(a) Rate. Holders of Series KK Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series KK Preferred Stock, and no more, payable quarterly in arrears on March 25, June 25, September 25 and December 25 of each year, beginning on September 25, 2019; provided, however, that if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day), in each case, without any additional dividends accruing or other payment adjustment and the relevant Dividend Period will not be adjusted. Dividends on each share of Series KK Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to 5.375%. The record date for payment of dividends on the Series KK Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. The amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series KK Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series KK Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series KK Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series KK Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series KK Preferred Stock remains outstanding, (i) no dividend shall be declared and paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or a *pro rata* portion, of the Series KK Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series KK Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series KK Preferred Stock remain outstanding, no dividends shall be declared and paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series KK Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series KK Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series KK Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series KK Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series KK Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series KK Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series KK Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series KK Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series KK Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series KK Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series KK Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series KK Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series KK Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series KK Preferred Stock at the time outstanding, at any time on or after June 25, 2024 or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series KK Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series KK Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 calendar days and not more than 60 calendar days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series KK Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series KK Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series KK Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series KK Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series KK Preferred Stock at the time outstanding, the shares of Series KK Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series KK Preferred Stock in proportion to the number of Series KK Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series KK Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from the Corporation or such bank or trust company at any time after the redemption date from the funds so set aside or deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount set aside or deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series KK Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series KK Preferred Stock or any other class or series of preferred stock that ranks on parity with Series KK Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in

an aggregate amount equal to, as to any class or series, the equivalent of at least six or more quarterly Dividend Periods (whether consecutive or not), the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series KK Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series KK Preferred Stock and any other class or series of preferred stock that ranks on parity with Series KK Preferred Stock as to payment of dividends having equivalent voting rights is a "Preferred Director."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series KK Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series KK Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series KK Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series KK Preferred Stock and any other class or series of preferred stock that ranks on parity with Series KK Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series KK Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series KK Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series KK Preferred Stock and any other class or series of preferred stock that ranks on parity with Series KK Preferred Stock as to payment of dividends, if any, for the equivalent of at least four quarterly Dividend Periods, then the right of the holders of Series KK Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series KK Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series KK Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66 $\frac{2}{3}$ % of the voting power of the Series KK Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series KK Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any

obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series KK Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66⅔% of the shares of the Series KK Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series KK Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series KK Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series KK Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series KK Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series KK Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series KK Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series KK Preferred Stock, with proper notice and sufficient funds having been set aside or deposited for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series KK Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series KK Preferred Stock shall not have any rights of preemption or rights to convert such Series KK Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series KK Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series KK Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series KK Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series KK Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 25th day of June, 2019.

BANK OF AMERICA CORPORATION

By: /s/ ROSS E. JEFFRIES, JR.
Name: Ross E. Jeffries, Jr.
Title: Deputy General Counsel and Corporate Secretary

Exhibit W

5.000% Non-Cumulative Preferred Stock, Series LL

**CERTIFICATE OF DESIGNATIONS OF
5.000% NON-CUMULATIVE PREFERRED STOCK, SERIES LL
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Amended and Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on September 10, 2019, in accordance with Section 141(f) of the General Corporation Law:

Resolved, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors duly adopted on June 27, 2019, the provisions of the Amended and Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “5.000% Non-Cumulative Preferred Stock, Series LL” (the “*Series LL Preferred Stock*”). Each share of Series LL Preferred Stock shall be identical in all respects to every other share of Series LL Preferred Stock. Series LL Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series LL Preferred Stock shall be 52,400. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series LL Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series LL Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series LL Preferred Stock:

“*Business Day*” means each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series LL Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series LL Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series LL Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series LL Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series LL Preferred Stock is outstanding.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Payment Date*” means March 17, June 17, September 17 and December 17 of each year, beginning on December 17, 2019.

“*Dividend Period*” means the period from, and including, the date of issuance of the Series LL Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series LL Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) Floating Rate Non-Cumulative Preferred Stock, Series E, (c) Floating Rate Non-Cumulative Preferred Stock, Series F, (d) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (e) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (f) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (h) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series V, (i) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (j) 6.500% Non-Cumulative Preferred Stock, Series Y, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (l) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (m) 6.200% Non-Cumulative Preferred Stock, Series CC, (n) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD, (o) 6.000% Non-Cumulative Preferred Stock, Series EE, (p) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF, (q) 6.000% Non-Cumulative Preferred Stock, Series GG, (r) 5.875% Non-Cumulative Preferred Stock, Series HH, (s) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series JJ, (t) 5.375% Non-Cumulative Preferred Stock, Series KK, (u) Floating Rate Non-Cumulative Preferred Stock, Series 1, (v) Floating Rate Non-Cumulative Preferred Stock, Series 2, (w) Floating Rate Non-Cumulative Preferred Stock, Series 4, (x) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (y) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series LL Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series LL Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series LL Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

Section 4. Dividends.

(a) Rate. Holders of Series LL Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series LL Preferred Stock, and no more, payable quarterly in arrears on March 17, June 17, September 17 and December 17 of each year, beginning on December 17, 2019; provided, however, that if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day), in each case, without any additional dividends accruing or other payment adjustment and the relevant Dividend Period will not be adjusted. Dividends on each share of Series LL Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to 5.000%. The record date for payment of dividends on the Series LL Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. The amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward.

(b) Non-Cumulative Dividends. Dividends on shares of Series LL Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series LL Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series LL Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or interest with respect to such dividends, whether or not dividends are declared for

any subsequent Dividend Period with respect to Series LL Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series LL Preferred Stock remains outstanding, (i) no dividend shall be declared and paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or *apro rata* portion, of the Series LL Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series LL Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series LL Preferred Stock remain outstanding, no dividends shall be declared and paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series LL Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series LL Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series LL Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series LL Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series LL Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series LL Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series LL Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series LL Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series LL Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series LL Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series LL Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation preferences, plus any dividends which have been declared but not yet paid, of Series LL Preferred Stock and all such Parity Stock.

(c) Residual Distributions. If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series LL Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) Merger, Consolidation and Sale of Assets Not Liquidation. For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination

transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) Optional Redemption. The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series LL Preferred Stock at the time outstanding, at any time on or after September 17, 2024 or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series LL Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) Notice of Redemption. Notice of every redemption of shares of Series LL Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 calendar days and not more than 60 calendar days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series LL Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series LL Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series LL Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series LL Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) Partial Redemption. In case of any redemption of only part of the shares of Series LL Preferred Stock at the time outstanding, the shares of Series LL Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series LL Preferred Stock in proportion to the number of Series LL Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series LL Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depositary Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from the Corporation or such bank or trust company at any time after the redemption date from the funds so set aside or deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depositary Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount set aside or deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series LL Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series LL Preferred Stock or any other class or series of preferred stock that ranks on parity with Series LL Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least six or more quarterly Dividend Periods (whether consecutive or not), the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series LL Preferred Stock (together with holders of any class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation's securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series LL Preferred Stock and any other class or series of preferred stock that ranks on parity with Series LL Preferred Stock as to payment of dividends having equivalent voting rights is a "*Preferred Director*."

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series LL Preferred Stock and any other class or series of the Corporation's stock that ranks on parity with Series LL Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series LL Preferred Stock (addressed to the secretary at the Corporation's principal office) must (unless such request is received less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series LL Preferred Stock and any other class or series of preferred stock that ranks on parity with Series LL Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series LL Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series LL Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series LL Preferred Stock and any other class or series of preferred stock that ranks on parity with Series LL Preferred Stock as to payment of dividends, if any, for the equivalent of at least four quarterly Dividend Periods, then the right of the holders of Series LL Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series LL Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series LL Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66 $\frac{2}{3}$ % of the voting power of the Series LL Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in

person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series LL Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series LL Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66 $\frac{2}{3}$ % of the shares of the Series LL Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series LL Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series LL Preferred Stock as to dividends and distribution of assets upon liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series LL Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series LL Preferred Stock shall not be deemed to adversely affect the powers, preferences or special rights of the Series LL Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series LL Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series LL Preferred Stock, with proper notice and sufficient funds having been set aside or deposited for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series LL Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series LL Preferred Stock shall not have any rights of preemption or rights to convert such Series LL Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series LL Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series LL Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series LL Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series LL Preferred Stock are not subject to the operation of a sinking fund.

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 17th day of September, 2019.

BANK OF AMERICA CORPORATION

By: /s/ ROSS E. JEFFRIES, JR.

Name: _____
Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

**CERTIFICATE OF DESIGNATIONS OF
FIXED-TO-FLOATING RATE NON-CUMULATIVE PREFERRED STOCK, SERIES MM
OF
BANK OF AMERICA CORPORATION**

Bank of America Corporation, a corporation organized and existing under the laws of the State of Delaware (the “*Corporation*”), hereby certifies that, pursuant to authority conferred upon the Board of Directors of the Corporation (the “*Board of Directors*”) by the provisions of the Restated Certificate of Incorporation of the Corporation, which authorize the issuance of not more than 100,000,000 shares of preferred stock, par value \$0.01 per share, and pursuant to authority conferred upon the Preferred Stock Committee of the Board of Directors (the “*Committee*”) in accordance with Section 141(c) of the General Corporation Law of the State of Delaware (the “*General Corporation Law*”), the following resolutions were duly adopted by the Committee pursuant to the written consent of the Committee duly adopted on January 21, 2020, in accordance with Section 141(f) of the General Corporation Law:

Resolved, that, pursuant to the authority vested in the Committee and in accordance with the resolutions of the Board of Directors duly adopted on June 27, 2019, the provisions of the Restated Certificate of Incorporation, the By-laws of the Corporation, and applicable law, a series of Preferred Stock, par value \$0.01 per share, of the Corporation be, and hereby is, created, and that the designation and number of shares of such series, and the voting and other powers, designations, preferences and relative, participating, optional or other rights, and the qualifications, limitations and restrictions thereof, of the shares of such series, are as follows:

Section 1. Designation.

The designation of the series of preferred stock shall be “Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series MM” (the “*Series MM Preferred Stock*”). Each share of Series MM Preferred Stock shall be identical in all respects to every other share of Series MM Preferred Stock. Series MM Preferred Stock will rank equally with Parity Stock, if any, will rank senior to Junior Stock and will rank junior to Senior Stock, if any, with respect to the payment of dividends and the distribution of assets in the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation.

Section 2. Number of Shares.

The number of authorized shares of Series MM Preferred Stock shall be 44,000. That number from time to time may be increased (but not in excess of the total number of authorized shares of preferred stock) or decreased (but not below the number of shares of Series MM Preferred Stock then outstanding) by further resolution duly adopted by the Board of Directors or any duly authorized committee of the Board of Directors and by the filing of a certificate pursuant to the provisions of the General Corporation Law stating that such increase or decrease, as the case may be, has been so authorized. The Corporation shall have the authority to issue fractional shares of Series MM Preferred Stock.

Section 3. Definitions.

As used herein with respect to Series MM Preferred Stock:

“*Benchmark*” means, initially, Three-Month LIBOR; provided that if a Benchmark Transition Event and related Benchmark Replacement Date have occurred with respect to Three-Month LIBOR or the then-current Benchmark, then “*Benchmark*” means the applicable Benchmark Replacement.

“*Benchmark Replacement*” means the Interpolated Benchmark with respect to the then-current Benchmark (if applicable), plus the Benchmark Replacement Adjustment for such Benchmark (if applicable); provided that if the Calculation Agent (after consultation with the Corporation) cannot determine the Interpolated Benchmark as of the Benchmark Replacement Date, then “*Benchmark Replacement*” means the first alternative set forth in the order

below that can be determined by the Corporation or the Corporation's designee (after consultation with the Corporation) as of the Benchmark Replacement Date:

- (1) the sum of: (a) Term SOFR and (b) the Benchmark Replacement Adjustment;
- (2) the sum of: (a) Compounded SOFR and (b) the Benchmark Replacement Adjustment;
- (3) the sum of: (a) the alternate rate that has been selected or recommended by the Relevant Governmental Body as the replacement for the then-current Benchmark for the applicable Corresponding Tenor (if any) and (b) the Benchmark Replacement Adjustment;
- (4) the sum of: (a) the ISDA Fallback Rate and (b) the Benchmark Replacement Adjustment;
- (5) the sum of: (a) the alternate rate that has been selected by the Corporation or the Corporation's designee (after consultation with the Corporation) as the replacement for the then-current Benchmark for the applicable Corresponding Tenor giving due consideration to any industry-accepted rate as a replacement for the then-current Benchmark for U.S. dollar-denominated floating rate securities at such time and (b) the Benchmark Replacement Adjustment.

"Benchmark Replacement Adjustment" means the first alternative set forth in the order below that can be determined by the Corporation or the Corporation's designee (after consultation with the Corporation) as of the Benchmark Replacement Date:

- (1) the spread adjustment (which may be a positive or negative value or zero) that has been selected or recommended by the Relevant Governmental Body or determined by the Corporation or the Corporation's designee (after consultation with the Corporation) in accordance with the method for calculating or determining such spread adjustment that has been selected or recommended by the Relevant Governmental Body, in each case for the applicable Unadjusted Benchmark Replacement;
- (2) if the applicable Unadjusted Benchmark Replacement is equivalent to the ISDA Fallback Rate, then the ISDA Fallback Adjustment;
- (3) the spread adjustment (which may be a positive or negative value or zero) that has been selected by the Corporation or the Corporation's designee (after consultation with the Corporation) giving due consideration to any industry-accepted spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of the then-current Benchmark with the applicable Unadjusted Benchmark Replacement for U.S. dollar-denominated floating rate securities at such time.

"Benchmark Replacement Conforming Changes" means, with respect to any Benchmark Replacement, changes to (1) any Dividend Determination Date, Dividend Payment Date or Dividend Period, (2) the manner, timing and frequency of determining rates and amounts of dividends that are payable on the Series MM Preferred Stock and the conventions relating to such determination, (3) the timing of making dividend payments, (4) rounding conventions, (5) tenors and (6) any other terms or provisions of the Series MM Preferred Stock, in each case that the Corporation or the Corporation's designee (after consultation with the Corporation) determines, from time to time, to be appropriate to reflect the determination and implementation of such Benchmark Replacement in a manner substantially consistent with market practice (or, if the Corporation, the Calculation Agent or the Corporation's designee (after consultation with the Corporation) decides that implementation of any portion of such market practice is not administratively feasible or if the Corporation or the Corporation's designee (after consultation with the Corporation) determines that no market practice for use of the Benchmark Replacement exists, in such other manner as the Corporation or the Corporation's designee (after consultation with the Corporation) determines is appropriate).

"Benchmark Replacement Date" means the earliest to occur of the following events with respect to the then-current Benchmark:

- (1) in the case of clause (1) or (2) of the definition of “Benchmark Transition Event,” the later of (a) the date of the public statement or publication of information referenced therein and (b) the date on which the administrator of the Benchmark permanently or indefinitely ceases to provide the Benchmark; or
- (2) in the case of clause (3) of the definition of “Benchmark Transition Event,” the date of the public statement or publication of information referenced therein.

For the avoidance of doubt, if the event giving rise to the Benchmark Replacement Date occurs on the same day as, but earlier than, the Reference Time in respect of any determination, the Benchmark Replacement Date will be deemed to have occurred prior to the Reference Time for such determination.

“*Benchmark Transition Event*” means the occurrence of one or more of the following events with respect to the then-current Benchmark:

- (1) a public statement or publication of information by or on behalf of the administrator of the Benchmark announcing that such administrator has ceased or will cease to provide the Benchmark, permanently or indefinitely, provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide the Benchmark;
- (2) a public statement or publication of information by the regulatory supervisor for the administrator of the Benchmark, the central bank for the currency of the Benchmark, an insolvency official with jurisdiction over the administrator for the Benchmark, a resolution authority with jurisdiction over the administrator for the Benchmark or a court or an entity with similar insolvency or resolution authority over the administrator for the Benchmark, which states that the administrator of the Benchmark has ceased or will cease to provide the Benchmark permanently or indefinitely, provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide the Benchmark; or
- (3) a public statement or publication of information by the regulatory supervisor for the administrator of the Benchmark announcing that the Benchmark is no longer representative.

“*Business Day*” means, for the Fixed Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina; and, for the Floating Rate Period, each Monday, Tuesday, Wednesday, Thursday or Friday on which banking institutions are not authorized or obligated by law, regulation or executive order to close in New York, New York or in Charlotte, North Carolina and is a London Banking Day, subject to change in accordance with Section 4(a) hereof in the event a Benchmark Transition Event and Benchmark Replacement Date have occurred.

“*Calculation Agent*” shall mean The Bank of New York Mellon Trust Company, N.A., or such other bank or entity (which may be an affiliate of the Corporation) as may be appointed by the Corporation to act as calculation agent for the Series MM Preferred Stock during the Floating Rate Period.

“*Capital Treatment Event*” means the good faith determination by the Corporation that, as a result of any: (i) amendment to, clarification of, or change in, the laws or regulations of the United States or any political subdivision of or in the United States that is enacted or becomes effective after the initial issuance of any shares of the Series MM Preferred Stock; (ii) proposed change in those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series MM Preferred Stock; or (iii) official administrative decision or judicial decision or administrative action or other official pronouncement interpreting or applying those laws or regulations that is announced or becomes effective after the initial issuance of any shares of the Series MM Preferred Stock, there is more than an insubstantial risk that the Corporation shall not be entitled to treat an amount equal to the full liquidation preference of all shares of the Series MM Preferred Stock then outstanding as “additional Tier 1 capital” (or its equivalent) for purposes of the capital adequacy guidelines or regulations of the

Board of Governors of the Federal Reserve System or other appropriate federal banking agency, as then in effect and applicable, for as long as any share of the Series MM Preferred Stock is outstanding.

“*Compounded SOFR*” means the compounded average of SOFRs for the applicable Corresponding Tenor, with the rate, or methodology for this rate, and conventions for this rate being established by the Corporation or the Corporation’s designee (after consultation with the Corporation) in accordance with:

- (1) the rate, or methodology for this rate, and conventions for this rate selected or recommended by the Relevant Governmental Body for determining Compounded SOFR; provided that:
- (2) if, and to the extent that, the Corporation or the Corporation’s designee (after consultation with the Corporation) determines that Compounded SOFR cannot be determined in accordance with clause (1) above, then the rate, or methodology for this rate, and conventions for this rate that have been selected by the Corporation or the Corporation’s designee (after consultation with the Corporation) giving due consideration to any industry-accepted market practice for U.S. dollar-denominated floating rate securities at such time.

“*Corresponding Tenor*” with respect to a Benchmark Replacement means a tenor (including overnight) having approximately the same length (disregarding business day adjustment) as the applicable tenor for the then-current Benchmark.

“*Depository Company*” shall have the meaning set forth in Section 6(d) hereof.

“*Dividend Determination Date*” shall have the meaning set forth below in the definition of Three-Month LIBOR in Section 4(a) hereof.

“*Dividend Payment Date*” means, for the Fixed Rate Period, January 28 and July 28 of each year, and for the Floating Rate Period, January 28, April 28, July 28, and October 28 of each year, subject to adjustment for non-Business Days as described in Section 4(a) hereof.

“*Dividend Period*” means the period from, and including, the date of issuance of the Series MM Preferred Stock or any Dividend Payment Date to, but excluding, the next Dividend Payment Date, subject to adjustment as described in Section 4(a) hereof.

“*DTC*” means The Depository Trust Company, together with its successors and assigns.

“*Federal Reserve Bank of New York’s Website*” means the website of the Federal Reserve Bank of New York at <http://www.newyorkfed.org>, or any successor source.

“*Fixed Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Floating Rate Period*” shall have the meaning set forth in Section 4(a) hereof.

“*Interpolated Benchmark*” with respect to the Benchmark (if applicable) means the rate determined for the Corresponding Tenor by interpolating on a linear basis between: (1) the Benchmark for the longest period (for which the Benchmark is available) that is shorter than the Corresponding Tenor and (2) the Benchmark for the shortest period (for which the Benchmark is available) that is longer than the Corresponding Tenor. “*Benchmark*” as used in clause (1) and (2) of the foregoing definition means the then-current Benchmark for the applicable periods specified in such clauses without giving effect to the applicable index maturity (if any).

“*ISDA Definitions*” means the 2006 ISDA Definitions published by the International Swaps and Derivatives Association, Inc. or any successor thereto, as amended or supplemented from time to time, or any successor definitional booklet for interest rate derivatives published from time to time.

“*ISDA Fallback Adjustment*” means the spread adjustment (which may be a positive or negative value or zero) that would apply for derivatives transactions referencing the ISDA Definitions to be determined upon the occurrence of an index cessation event with respect to the Benchmark for the applicable tenor.

“*ISDA Fallback Rate*” means the rate that would apply for derivatives transactions referencing the ISDA Definitions to be effective upon the occurrence of an index cessation date with respect to the Benchmark for the applicable tenor excluding the applicable ISDA Fallback Adjustment.

“*Junior Stock*” means the Corporation’s common stock and any other class or series of stock of the Corporation now existing or hereafter authorized over which Series MM Preferred Stock has preference or priority in the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*London Banking Day*” means any day on which commercial banks are open for general business (including dealings in deposits in U.S. dollars) in London, England.

“*Parity Stock*” means the Corporation’s (a) 7% Cumulative Redeemable Preferred Stock, Series B, (b) Floating Rate Non-Cumulative Preferred Stock, Series E, (c) Floating Rate Non-Cumulative Preferred Stock, Series F, (d) Adjustable Rate Non-Cumulative Preferred Stock, Series G, (e) 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L, (f) 6% Non-Cumulative Perpetual Preferred Stock, Series T, (g) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U, (h) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X, (i) 6.500% Non-Cumulative Preferred Stock, Series Y, (j) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z, (k) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA, (l) 6.200% Non-Cumulative Preferred Stock, Series CC, (m) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD, (n) 6.000% Non-Cumulative Preferred Stock, Series EE, (o) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF, (p) 6.000% Non-Cumulative Preferred Stock, Series GG, (q) 5.875% Non-Cumulative Preferred Stock, Series HH, (r) Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series JJ, (s) 5.375% Non-Cumulative Preferred Stock, Series KK, (t) 5.000% Non-Cumulative Preferred Stock, Series LL, (u) Floating Rate Non-Cumulative Preferred Stock, Series 1, (v) Floating Rate Non-Cumulative Preferred Stock, Series 2, (w) Floating Rate Non-Cumulative Preferred Stock, Series 4, (x) Floating Rate Non-Cumulative Preferred Stock, Series 5, and (y) any other class or series of stock of the Corporation hereafter authorized that ranks on a par with the Series MM Preferred Stock in the payment of dividends and in the distribution of assets on any liquidation, dissolution or winding up of the Corporation.

“*Reference Time*” with respect to any determination of the Benchmark means (1) if the Benchmark is Three-Month LIBOR, 11:00 a.m. (London time) on the relevant Dividend Determination Date, and (2) if the Benchmark is not Three-Month LIBOR, the time determined by the Corporation or the Corporation’s designee (after consultation with the Corporation) in accordance with the Benchmark Replacement Conforming Changes.

“*Relevant Governmental Body*” means the Federal Reserve and/or the Federal Reserve Bank of New York, or a committee officially endorsed or convened by the Federal Reserve and/or the Federal Reserve Bank of New York or any successor thereto.

“*Reuters Screen Page “LIBOR01”*” means the display on the Thomson Reuters Eikon service, or any successor or replacement service, on page LIBOR01, for the purpose of displaying London interbank offered rates of major banks for U.S. dollar deposits, or any successor or replacement page or pages on that service.

“*Senior Stock*” means any class or series of stock of the Corporation now existing or hereafter authorized which has preference or priority over the Series MM Preferred Stock as to the payment of dividends or in the distribution of assets on any voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

“*Series MM Preferred Stock*” shall have the meaning set forth in Section 1 hereof.

“SOFR” with respect to any day means the secured overnight financing rate published for such day by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve Bank of New York’s Website, or any successor source.

“Term SOFR” means the forward-looking term rate for the applicable Corresponding Tenor based on SOFR that has been selected or recommended by the Relevant Governmental Body.

“Three-Month LIBOR” shall have the meaning set forth in Section 4(a) hereof.

“Unadjusted Benchmark Replacement” means the Benchmark Replacement excluding the Benchmark Replacement Adjustment.

Section 4. Dividends.

(a) **Rate.** Holders of Series MM Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors or any duly authorized committee of the Board of Directors, but only out of funds legally available for the payment of dividends, non-cumulative cash dividends based on the liquidation preference of \$25,000 per share of Series MM Preferred Stock, and no more, payable (x) for the Fixed Rate Period (as defined below), semi-annually in arrears on January 28 and July 28 of each year, beginning on July 28, 2020; provided, however, that if any such day is not a Business Day, then payment of any dividend otherwise payable on that date will be made on the next succeeding day that is a Business Day (unless that day falls in the next calendar year, in which case payment of such dividend will occur on the immediately preceding Business Day), in each case, without any additional dividends accruing or other payment adjustment and the relevant Dividend Period will not be adjusted; and (y) for the Floating Rate Period (as defined below), quarterly in arrears on January 28, April 28, July 28 and October 28 of each year, beginning on April 28, 2025; provided, however, that if any such day is not a Business Day, then the next succeeding day that is a Business Day will be the Dividend Payment Date for the relevant Dividend Period (unless that day falls in the next calendar month, in which case the immediately preceding Business Day will be the Dividend Payment Date for the relevant Dividend Period), in each case, with dividends accruing to, but excluding, the actual payment date, and the relevant Dividend Period will be adjusted accordingly. Dividends on each share of Series MM Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate *per annum* equal to (1) 4.300%, for each Dividend Period from, and including, the issue date to, but excluding, January 28, 2025 (the “Fixed Rate Period”), and (2) thereafter, Three-Month LIBOR (as defined below) (which rate is subject to replacement as described below) plus a spread of 2.664%, for each Dividend Period from, and including, January 28, 2025 (the “Floating Rate Period”). If a Benchmark Transition Event and related Benchmark Replacement Date occur with respect to Three-Month LIBOR, then dividends on the Series MM Preferred Stock during the Floating Rate Period thereafter will be determined not by reference to Three-Month LIBOR but instead by reference to the Benchmark Replacement, and, in connection with the implementation of the applicable Benchmark Replacement, the Corporation or the Corporation’s designee (after consultation with the Corporation) may from time to time, on or after the Benchmark Replacement Date, make Benchmark Replacement Conforming Changes, and any such Benchmark Replacement Conforming Changes will be deemed incorporated herein by reference and supersede and supplement the provisions of this Section 4(a) to the extent applicable.

“Three-Month LIBOR” means, with respect to any Dividend Period in the Floating Rate Period, the London interbank offered rate for deposits in U.S. dollars for a three-month period commencing on the first day of that Dividend Period that appears on Reuters Screen Page “LIBOR01” at approximately 11:00 a.m. (London time) on the second London Banking Day immediately preceding the first day of that Dividend Period (the “Dividend Determination Date”). If no such offered rate appears on Reuters Screen Page “LIBOR01” on the relevant Dividend Determination Date at approximately 11:00 a.m., London time, then the Corporation will select and identify to the Calculation Agent four major banks in the London interbank market, and the Calculation Agent will request each such bank to provide a quotation of the rate at which three-month deposits in U.S. dollars in amounts of at least \$1,000,000 commencing on the first day of the Dividend Period relating to such Dividend Determination Date are offered by it to prime banks in the London interbank market, at approximately 11:00 a.m. London time, on that Dividend Determination Date. If at least two quotations are provided, the Calculation Agent will determine Three-Month LIBOR as the arithmetic average (rounded upward if necessary to the nearest .00001%) of the

quotations provided. If fewer than two quotations are provided, the Corporation will select and identify to the Calculation Agent three major banks in New York City, and the Calculation Agent will request each of such banks to provide a quotation of the rate offered by it at approximately 11:00 a.m., New York City time, on the Dividend Determination Date for loans in U.S. dollars to leading European banks for a three-month period for the applicable Dividend Period in an amount of at least \$1,000,000 commencing on the first day of the Dividend Period relating to such Dividend Determination Date. If three quotations are provided, the Calculation Agent will determine Three-Month LIBOR as the arithmetic average of the quotations provided. Otherwise, Three-Month LIBOR for the applicable Dividend Period will be equal to Three-Month LIBOR in effect for the then-current Dividend Period or, in the case of the first Dividend Period during the Floating Rate Period, the most recent rate that could have been determined in accordance with the first sentence of this paragraph had the dividend rate been a floating rate during the Fixed Rate Period.

Notwithstanding the foregoing paragraph, if the Corporation or the Corporation's designee (after consultation with the Corporation) determines on or prior to the relevant Reference Time that a Benchmark Transition Event and related Benchmark Replacement Date have occurred with respect to Three-Month LIBOR or the then-current Benchmark for the Series MM Preferred Stock, the applicable Benchmark Replacement will replace the then-current Benchmark for the Series MM Preferred Stock for all purposes relating to the Series MM Preferred Stock during the Floating Rate Period in respect of all determinations on such date and for all determinations on all subsequent dates. In connection with the implementation of a Benchmark Replacement, the Corporation or the Corporation's designee (after consultation with the Corporation) may make Benchmark Replacement Conforming Changes from time to time. Any determination, decision or election that may be made by the Corporation or the Corporation's designee (which may be an affiliate of the Corporation) pursuant to this paragraph (including Benchmark Replacement Conforming Changes) and definitions related thereto, and any decision to take or refrain from taking any action or any selection (i) will be conclusive and binding absent manifest error; (ii) if made by the Corporation, will be made in the sole discretion of the Corporation; (iii) if made by the Corporation's designee, will be made after consultation with the Corporation, and the Corporation's designee will not make any such determination, decision or election to which the Corporation objects; and (iv) shall be deemed incorporated herein by reference and be part of the terms of the Series MM Preferred Stock without consent from the holders of the Series MM Preferred Stock or any other party. The Corporation may designate an entity (which may be a calculation agent and/or the Corporation's affiliate) to make any determination, decision or election that the Corporation has the right to make in connection with the foregoing paragraphs. For so long as any share of the Series MM Preferred Stock is outstanding, the Corporation will maintain a record of any Benchmark Replacement and Benchmark Replacement Conforming Changes, and will provide a copy of such record to holders of the Series MM Preferred Stock upon written request to the Corporation.

The record date for payment of dividends on the Series MM Preferred Stock shall be the first day of the calendar month in which the Dividend Payment Date falls or such other record date fixed by the Board of Directors or a duly authorized committee of the Board of Directors that is not more than 60 days nor less than 10 days prior to such Dividend Payment Date. For the Fixed Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year of twelve 30-day months. For the Floating Rate Period, the amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in a Dividend Period. Dollar amounts resulting from that calculation shall be rounded to the nearest cent, with one-half cent being rounded upward. The Calculation Agent's establishment of Three-Month LIBOR or the dividend rate determined based on the Benchmark Replacement, as applicable, and calculation of the amount of dividends for each Dividend Period in the Floating Rate Period will be on file at the principal offices of the Corporation, will be made available to any holder of Series MM Preferred Stock upon written request and will be final and binding in the absence of manifest error.

(b) Non-Cumulative Dividends. Dividends on shares of Series MM Preferred Stock shall be non-cumulative. To the extent that any dividends on the shares of Series MM Preferred Stock with respect to any Dividend Period are not declared and paid, in full or otherwise, on the Dividend Payment Date for such Dividend Period, then such unpaid dividends shall not cumulate and shall cease to accrue and be payable, and the Corporation shall have no obligation to pay, and the holders of Series MM Preferred Stock shall have no right to receive, dividends accrued for such Dividend Period on or after the Dividend Payment Date for such Dividend Period or

interest with respect to such dividends, whether or not dividends are declared for any subsequent Dividend Period with respect to Series MM Preferred Stock, Parity Stock, Junior Stock or any other class or series of authorized preferred stock of the Corporation.

(c) Priority of Dividends. So long as any share of Series MM Preferred Stock remains outstanding, (i) no dividend shall be declared and paid or set aside for payment and no distribution shall be declared or made or set aside for payment on any Junior Stock, other than a dividend payable solely in shares of Junior Stock, (ii) no shares of Junior Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation, directly or indirectly (other than as a result of a reclassification of Junior Stock for or into other Junior Stock, or the exchange or conversion of one share of Junior Stock for or into another share of Junior Stock, and other than through the use of the proceeds of a substantially contemporaneous sale of other shares of Junior Stock), nor shall any monies be paid to or made available for a sinking fund for the redemption of any such Junior Stock by the Corporation and (iii) no shares of Parity Stock shall be repurchased, redeemed or otherwise acquired for consideration by the Corporation otherwise than pursuant to *pro rata* offers to purchase all, or a *pro rata* portion, of the Series MM Preferred Stock and such Parity Stock except by conversion into or exchange for Junior Stock, in each case, unless full dividends on all outstanding shares of Series MM Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. The foregoing limitations do not apply to purchases or acquisitions of the Corporation's Junior Stock pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted. Subject to the succeeding sentence, for so long as any shares of Series MM Preferred Stock remain outstanding, no dividends shall be declared and paid or set aside for payment on any Parity Stock for any period unless full dividends on all outstanding shares of Series MM Preferred Stock for the immediately preceding Dividend Period have been paid in full or declared and a sum sufficient for the payment thereof set aside. To the extent the Corporation declares dividends on the Series MM Preferred Stock and on any Parity Stock but cannot make full payment of such declared dividends, the Corporation will allocate the dividend payments on a *pro rata* basis among the holders of the shares of Series MM Preferred Stock and the holders of any Parity Stock then outstanding. For purposes of calculating the *pro rata* allocation of partial dividend payments, the Corporation will allocate dividend payments based on the ratio between the then-current dividend payments due on the shares of Series MM Preferred Stock and the aggregate of the current and accrued dividends due on the outstanding Parity Stock. No interest will be payable in respect of any dividend payment on shares of Series MM Preferred Stock that may be in arrears. Subject to the foregoing, and not otherwise, such dividends (payable in cash, stock or otherwise) as may be determined by the Board of Directors or any duly authorized committee of the Board of Directors may be declared and paid on any Junior Stock from time to time out of any funds legally available therefor, and the shares of Series MM Preferred Stock shall not be entitled to participate in any such dividend.

Section 5. Liquidation Rights.

(a) Liquidation. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation, holders of Series MM Preferred Stock shall be entitled, out of assets legally available for distribution to stockholders of the Corporation, before any distribution or payment out of the assets of the Corporation may be made to or set aside for the holders of any Junior Stock and subject to the rights of the holders of any class or series of securities ranking senior to or on parity with Series MM Preferred Stock upon liquidation and the rights of the Corporation's depositors and other creditors, to receive in full a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any dividends which have been declared but not yet paid, without accumulation of any undeclared dividends, to the date of liquidation. The holders of Series MM Preferred Stock shall not be entitled to any further payments in the event of any such voluntary or involuntary liquidation, dissolution or winding up of the affairs of the Corporation other than what is expressly provided for in this Section 5.

(b) Partial Payment. If the assets of the Corporation are not sufficient to pay in full the liquidation preference plus any dividends which have been declared but not yet paid to all holders of Series MM Preferred Stock and all holders of any Parity Stock, the amounts paid to the holders of Series MM Preferred Stock and to the holders of all Parity Stock shall be *pro rata* in accordance with the respective aggregate liquidation

preferences, plus any dividends which have been declared but not yet paid, of Series MM Preferred Stock and all such Parity Stock.

(c) **Residual Distributions.** If the liquidation preference plus any dividends which have been declared but not yet paid has been paid in full to all holders of Series MM Preferred Stock and all holders of any Parity Stock, the holders of Junior Stock shall be entitled to receive all remaining assets of the Corporation according to their respective rights and preferences.

(d) **Merger, Consolidation and Sale of Assets Not Liquidation.** For purposes of this Section 5, the sale, conveyance, exchange or transfer (for cash, shares of stock, securities or other consideration) of all or substantially all of the property and assets of the Corporation shall not be deemed a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, nor shall the merger, consolidation or any other business combination transaction of the Corporation into or with any other corporation or person or the merger, consolidation or any other business combination transaction of any other corporation or person into or with the Corporation be deemed to be a voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation.

Section 6. Redemption.

(a) **Optional Redemption.** The Corporation, at the option of its Board of Directors or any duly authorized committee of the Board of Directors, may redeem out of funds legally available therefor, (i) in whole or in part, the shares of Series MM Preferred Stock at the time outstanding, at any time on or after January 28, 2025 or (ii) in whole but not in part, at any time within 90 days after a Capital Treatment Event, in each case upon notice given as provided in Section 6(b) below. The redemption price for shares of Series MM Preferred Stock redeemed pursuant to (i) or (ii) of the preceding sentence shall be \$25,000 per share plus (except as otherwise provided below) dividends that have accrued but have not been paid for the then-current Dividend Period to but excluding the redemption date, without accumulation of any undeclared dividends. Any declared but unpaid dividends payable on a redemption date that occurs subsequent to the record date for a dividend period shall not be paid to the holder entitled to receive the redemption price on the redemption date, but rather shall be paid to the holder of record of the redeemed shares on such record date relating to the Dividend Payment Date as provided in Section 4 above.

(b) **Notice of Redemption.** Notice of every redemption of shares of Series MM Preferred Stock shall be mailed by first class mail, postage prepaid, addressed to the holders of record of such shares to be redeemed at their respective last addresses appearing on the stock register of the Corporation. Such mailing shall be at least 30 calendar days and not more than 60 calendar days before the date fixed for redemption. Any notice mailed as provided in this Section 6(b) shall be conclusively presumed to have been duly given, whether or not the holder receives such notice, but failure duly to give such notice by mail, or any defect in such notice or in the mailing thereof, to any holder of shares of Series MM Preferred Stock designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Series MM Preferred Stock. Each notice shall state (i) the redemption date; (ii) the number of shares of Series MM Preferred Stock to be redeemed and, if fewer than all the shares held by such holder are to be redeemed, the number of such shares to be redeemed from such holder; (iii) the redemption price; (iv) the place or places where the certificates for such shares are to be surrendered for payment of the redemption price; and (v) that dividends on the shares to be redeemed will cease to accrue on the redemption date. Notwithstanding the foregoing, if the Series MM Preferred Stock is held in book-entry form through DTC, the Corporation may give such notice in any manner permitted by DTC.

(c) **Partial Redemption.** In case of any redemption of only part of the shares of Series MM Preferred Stock at the time outstanding, the shares of Series MM Preferred Stock to be redeemed shall be selected either *pro rata* from the holders of record of Series MM Preferred Stock in proportion to the number of Series MM Preferred Stock held by such holders or by lot. Subject to the provisions of this Section 6, the Board of Directors or any duly authorized committee of the Board of Directors shall have full power and authority to prescribe the terms and conditions upon which shares of Series MM Preferred Stock shall be redeemed from time to time.

(d) Effectiveness of Redemption. If notice of redemption has been duly given and if on or before the redemption date specified in the notice all funds necessary for the redemption have been set aside by the Corporation, separate and apart from its other funds, in trust for the *pro rata* benefit of the holders of the shares called for redemption, so as to be and continue to be available therefor, or deposited by the Corporation with a bank or trust company selected by the Board of Directors or any duly authorized committee of the Board of Directors (the “*Depository Company*”) in trust for the *pro rata* benefit of the holders of the shares called for redemption, then, notwithstanding that any certificate for any share so called for redemption has not been surrendered for cancellation, on and after the redemption date all shares so called for redemption shall cease to be outstanding, all dividends with respect to such shares shall cease to accrue, and all rights with respect to such shares shall forthwith on such redemption date cease and terminate, except only the right of the holders thereof to receive the amount payable on such redemption from the Corporation or such bank or trust company at any time after the redemption date from the funds so set aside or deposited, without interest. The Corporation shall be entitled to receive, from time to time, from the Depository Company any interest accrued on such funds, and the holders of any shares called for redemption shall have no claim to any such interest. Any funds so deposited and unclaimed at the end of three years from the redemption date shall, to the extent permitted by law, be released or repaid to the Corporation, and in the event of such repayment to the Corporation, the holders of record of the shares so called for redemption shall be deemed to be unsecured creditors of the Corporation for an amount equivalent to the amount set aside or deposited as stated above for the redemption of such shares and so repaid to the Corporation, but shall in no event be entitled to any interest.

Section 7. Voting Rights.

(a) General. The holders of Series MM Preferred Stock shall not be entitled to vote on any matter except as set forth in paragraphs 7(b) and 7(c) below or as required by law.

(b) Special Voting Right.

(i) Voting Right. If and whenever dividends on the Series MM Preferred Stock or any other class or series of preferred stock that ranks on parity with Series MM Preferred Stock as to payment of dividends, and upon which voting rights equivalent to those granted by this Section 7(b)(i) have been conferred and are exercisable, have not been paid in an aggregate amount equal to, as to any class or series, the equivalent of at least three or more semi-annual or six or more quarterly Dividend Periods (whether consecutive or not), as applicable, the number of directors constituting the Board of Directors shall be increased by two, and the holders of the Series MM Preferred Stock (together with holders of any class of the Corporation’s authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist), shall have the right, voting separately as a single class without regard to series, to the exclusion of the holders of common stock, to elect two directors of the Corporation to fill such newly created directorships (and to fill any vacancies in the terms of such directorships), provided that the election of such directors must not cause the Corporation to violate the corporate governance requirements of the New York Stock Exchange (or other exchange on which the Corporation’s securities may be listed) that listed companies must have a majority of independent directors and further provided that the Board of Directors shall at no time include more than two such directors. Each such director elected by the holders of shares of Series MM Preferred Stock and any other class or series of preferred stock that ranks on parity with Series MM Preferred Stock as to payment of dividends having equivalent voting rights is a “*Preferred Director*.”

(ii) Election. The election of the Preferred Directors will take place at any annual meeting of stockholders or any special meeting of the holders of Series MM Preferred Stock and any other class or series of the Corporation’s stock that ranks on parity with Series MM Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid, called as provided herein. At any time after the special voting power has vested pursuant to Section 7(b)(i) above, the secretary of the Corporation may, and upon the written request of any holder of Series MM Preferred Stock (addressed to the secretary at the Corporation’s principal office) must (unless such request is received

less than 90 days before the date fixed for the next annual or special meeting of the stockholders, in which event such election shall be held at such next annual or special meeting of stockholders), call a special meeting of the holders of Series MM Preferred Stock and any other class or series of preferred stock that ranks on parity with Series MM Preferred Stock as to payment of dividends and having equivalent voting rights and for which dividends have not been paid for the election of the two directors to be elected by them as provided in Section 7(b)(iii) below. The Preferred Directors shall each be entitled to one vote per director on any matter.

(iii) Notice of Special Meeting. Notice for a special meeting to elect the Preferred Directors will be given in a similar manner to that provided in the Corporation's By-laws for a special meeting of the stockholders. If the secretary of the Corporation does not call a special meeting within 20 days after receipt of any such request, then any holder of Series MM Preferred Stock may (at the Corporation's expense) call such meeting, upon notice as provided in this Section 7(b)(iii), and for that purpose will have access to the stock register of the Corporation. The Preferred Directors elected at any such special meeting will hold office until the next annual meeting of the Corporation's stockholders unless they have been previously terminated or removed pursuant to Section 7(b)(iv). In case any vacancy in the office of a Preferred Director occurs (other than prior to the initial election of the Preferred Directors), the vacancy may be filled by the written consent of the Preferred Director remaining in office, or if none remains in office, by the vote of the holders of the Series MM Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) to serve until the next annual meeting of the stockholders.

(iv) Termination; Removal. Whenever full dividends have been paid regularly on the Series MM Preferred Stock and any other class or series of preferred stock that ranks on parity with Series MM Preferred Stock as to payment of dividends, if any, for the equivalent of at least two semi-annual or four quarterly Dividend Periods, as applicable, then the right of the holders of Series MM Preferred Stock to elect the Preferred Directors will cease (but subject always to the same provisions for the vesting of the special voting rights in the case of any similar non-payment of dividends in respect of future Dividend Periods). The terms of office of the Preferred Directors will immediately terminate, and the number of directors constituting the Board of Directors will be reduced accordingly. Any Preferred Director may be removed at any time without cause by the holders of record of a majority of the outstanding shares of the Series MM Preferred Stock (together with holders of any other class of the Corporation's authorized preferred stock having equivalent voting rights, whether or not the holders of such preferred stock would be entitled to vote for the election of directors if such default in dividends did not exist) when they have the voting rights described in this Section 7(b).

(c) Other Voting Rights. So long as any shares of the Series MM Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote or consent of the holders of at least 66⅔% of the voting power of the Series MM Preferred Stock and the holders of any other Parity Stock entitled to vote thereon, voting together as a single class, given in person or by proxy, either in writing without a meeting or at any meeting called for the purpose, authorize, create or issue any capital stock ranking senior to the Series MM Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding up, or reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. Further, so long as any shares of the Series MM Preferred Stock remain outstanding, the Corporation shall not, without the affirmative vote of the holders of at least 66⅔% of the shares of the Series MM Preferred Stock, amend, alter or repeal any provision of this Certificate of Designations or the Certificate of Incorporation of the Corporation, including by merger, consolidation or otherwise, so as to adversely affect the powers, preferences or special rights of the Series MM Preferred Stock.

Notwithstanding the foregoing, (i) any increase in the amount of authorized common stock or authorized preferred stock, or any increase or decrease in the number of shares of any series of preferred stock, or the authorization, creation and issuance of other classes or series of capital stock, in each case ranking on a parity with or junior to the shares of the Series MM Preferred Stock as to dividends and distribution of assets upon

liquidation, dissolution or winding up, shall not be deemed to adversely affect such powers, preferences or special rights and (ii) a merger or consolidation of the Corporation with or into another entity in which the shares of the Series MM Preferred Stock (A) remain outstanding or (B) are converted into or exchanged for preference securities of the surviving entity or any entity, directly or indirectly, controlling such surviving entity and such new preference securities have powers, preferences or special rights that are not materially less favorable than the Series MM Preferred Stock, shall not be deemed to adversely affect the powers, preferences or special rights of the Series MM Preferred Stock.

(d) No Vote if Shares Redeemed. No vote or consent of the holders of the Series MM Preferred Stock shall be required pursuant to Section 7(b) or 7(c) if, at or prior to the time when the act with respect to such vote or consent would otherwise be required shall be effected, the Corporation shall have redeemed or shall have called for redemption all outstanding shares of Series MM Preferred Stock, with proper notice and sufficient funds having been set aside or deposited for such redemption, in each case pursuant to Section 6 above.

(e) Procedures for Voting and Consents. Other than as set forth in Section 7(b), the rules and procedures for calling and conducting any meeting of the holders of Series MM Preferred Stock (including, without limitation, the fixing of a record date in connection therewith), the solicitation and use of proxies at such meeting, the obtaining of written consents and any other aspect or matter with regard to such a meeting or such consents shall be governed by any rules the Board of Directors or any duly authorized committee of the Board of Directors, in its discretion, may adopt from time to time, which rules and procedures shall conform to the requirements of the Certificate of Incorporation and By-laws of the Corporation and to applicable law.

Section 8. Preemption and Conversion. The holders of Series MM Preferred Stock shall not have any rights of preemption or rights to convert such Series MM Preferred Stock into shares of any other class of capital stock of the Corporation.

Section 9. Rank. Notwithstanding anything set forth in the Certificate of Incorporation or this Certificate of Designations to the contrary, the Board of Directors or any authorized committee of the Board of Directors, without the vote of the holders of the Series MM Preferred Stock, may authorize and issue additional shares of Junior Stock or Parity Stock.

Section 10. Repurchase. Subject to the limitations imposed herein, the Corporation may purchase and sell Series MM Preferred Stock from time to time to such extent, in such manner, and upon such terms as the Board of Directors or any duly authorized committee of the Board of Directors may determine; provided, however, that the Corporation shall not use any of its funds for any such purchase when there are reasonable grounds to believe that the Corporation is, or by such purchase would be, rendered insolvent.

Section 11. Unissued or Reacquired Shares. Shares of Series MM Preferred Stock not issued or which have been issued and converted, redeemed or otherwise purchased or acquired by the Corporation shall be restored to the status of authorized but unissued shares of preferred stock without designation as to series.

Section 12. No Sinking Fund. Shares of Series MM Preferred Stock are not subject to the operation of a sinking fund.

[Signature page follows]

IN WITNESS WHEREOF, Bank of America Corporation has caused this Certificate of Designations to be executed by its duly authorized officer on this 24th day of January, 2020.

BANK OF AMERICA CORPORATION

By: /s/ ROSS E. JEFFRIES, JR.

Name: Ross E. Jeffries, Jr.

Title: Deputy General Counsel and Corporate Secretary

DESCRIPTION OF REGISTRANT'S SECURITIES REGISTERED UNDER SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934, AS AMENDED

As of December 31, 2019, Bank of America Corporation (the “**Company**”) had the following classes of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended (the “**Exchange Act**”):

- Common Stock, par value \$0.01 per share
- Depositary Shares, each representing a 1/1,000th interest in a share of Floating Rate Non-Cumulative Preferred Stock, Series E
- Depositary Shares, each representing a 1/1,000th interest in a share of 6.500% Non-Cumulative Preferred Stock, Series Y
- Depositary Shares, each representing a 1/1,000th interest in a share of 6.200% Non-Cumulative Preferred Stock, Series CC
- Depositary Shares, each representing a 1/1,000th interest in a share of 6.00% Non-Cumulative Preferred Stock, Series EE
- Depositary Shares, each representing a 1/1,000th interest in a share of 6.00% Non-Cumulative Preferred Stock, Series GG
- Depositary Shares, each representing a 1/1,000th interest in a share of 5.875% Non-Cumulative Preferred Stock, Series HH
- Depositary Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 1
- Depositary Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 2
- Depositary Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 4
- Depositary Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 5
- Depositary Shares, each representing a 1/1,000th interest in a share of 5.375% Non-Cumulative Preferred Stock, Series KK
- Depositary Shares, each representing a 1/1,000th interest in a share of 5.000% Non-Cumulative Preferred Stock, Series LL
- 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L
- Floating Rate Preferred Hybrid Income Term Securities of BAC Capital Trust XIII (and the guarantee related thereto)
- 5.63% Fixed to Floating Rate Preferred Hybrid Income Term Securities of BAC Capital Trust XIV (and the guarantee related thereto)
- Income Capital Obligation Notes initially due December 15, 2066 of Bank of America Corporation
- Senior Medium-Term Notes, Series A, Step Up Callable Notes, due November 28, 2031, of BofA Finance LLC (and the guarantee of the Company with respect thereto)

DESCRIPTION OF COMMON STOCK

This section describes the general terms and provisions of the shares of the Company's common stock. You should read the Company's Restated Certificate of Incorporation, as amended (the "**Restated Certificate of Incorporation**") and the Company's Amended Bylaws (the "**Bylaws**") for additional information about the common stock. The Restated Certificate of Incorporation and the Bylaws are included as exhibits to the Company's Annual Report on Form 10-K, for which this exhibit also is attached.

General

As of December 31, 2019, under the Restated Certificate of Incorporation, the Company is authorized to issue twelve billion eight hundred million (12,800,000,000) shares of common stock, par value \$.01 per share (the "**Common Stock**"), of which approximately 8.8 billion shares were outstanding. The Common Stock trades on the New York Stock Exchange (the "**NYSE**") under the symbol "BAC." As of December 31, 2019, approximately 579 million shares were reserved for issuance in connection with the Company's various employee and director benefit plans, the conversion of outstanding securities convertible into shares of the Common Stock, and for other purposes. After taking into account the reserved shares, there were approximately 3.4 billion authorized shares of Common Stock available for issuance as of December 31, 2019.

Shares of newly issued Common Stock will be uncertificated unless the Company's board of directors (the "**Board**") by resolution determines otherwise. Shares represented by an existing certificate will remain certificated until such certificate is surrendered to the Company.

Voting and Other Rights

Holders of the Common Stock are entitled to one vote per share. There are no cumulative voting rights. In general, a majority of votes cast on a matter is sufficient to take action upon routine matters, including the election of directors in an uncontested election. However, (1) amendments to the Restated Certificate of Incorporation generally must be approved by the affirmative vote of the holders of a majority of the voting power of the outstanding stock, and (2) a merger, dissolution, or the sale of all or substantially all of the Company's assets generally must be approved by the affirmative vote of the holders of a majority of the voting power of the outstanding stock.

In the event of the Company's liquidation, holders of the Common Stock will be entitled to receive pro rata any assets legally available for distribution to stockholders, subject to any prior rights of any preferred stock then outstanding.

The Common Stock does not have any preemptive rights, redemption privileges, sinking fund privileges, or conversion rights. All the outstanding shares of the Common Stock are, and, upon proper conversion of any convertible securities, all of the shares of Common Stock into which those securities are converted will be, validly issued, fully paid, and nonassessable.

Computershare Trust Company, N.A. is the transfer agent and registrar for the Common Stock.

Dividends

Subject to the preferential rights of any holders of any outstanding series of preferred stock, the holders of the Common Stock are entitled to receive dividends or distributions, whether payable in cash or

otherwise, as the Board may declare out of funds legally available for payments. Stock dividends, if any are declared, may be paid from the Company's authorized but unissued shares of Common Stock.

Certain Anti-Takeover Matters

Certain provisions of Delaware law and of the Restated Certificate of Incorporation and Bylaws could make it more difficult for a third party to acquire control of the Company or have the effect of discouraging a third party from attempting to acquire control of the Company. For example, the Company is subject to Section 203 of the Delaware General Corporation Law, which would make it more difficult for another party to acquire the Company without the approval of the Board. Certain provisions of the Restated Certificate of Incorporation and Bylaws may make it less likely that the Company's management would be changed or that someone would acquire voting control of the Company without the Board's consent. These provisions could make it more difficult for a third party to acquire the Company even if an acquisition might be in the best interest of the Company's stockholders.

Preferred Stock. The Board can, at any time, under the Restated Certificate of Incorporation and without stockholder approval, issue one or more new series of preferred stock. In some cases, the issuance of preferred stock without stockholder approval could discourage or make more difficult attempts to take control of the Company through a merger, tender offer, proxy contest or otherwise. Preferred stock with special voting rights or other features issued to persons favoring the Company's management could stop a takeover by preventing the person trying to take control of the Company from acquiring enough voting shares necessary to take control. For a description of the outstanding series of the Company's preferred stock as of December 31, 2019, see "Description of Preferred Stock" below.

Advance Notice Requirements. The Bylaws establish advance notice procedures with regard to stockholder proposals relating to nominations for the election of directors or other business to be brought before meetings of the Company's stockholders. These procedures provide that notice of such stockholder proposals must be timely given to the Company's corporate secretary prior to the meeting at which the action is to be taken. The notice must contain certain information specified in the Bylaws and must otherwise comply with the Bylaws.

Vacancies. Under the Bylaws, a majority vote of the Board may increase or decrease the number of directors. Any director may be removed at any time with or without cause by the affirmative vote of the holders of a majority of the voting power of the outstanding shares then entitled to vote at an election of directors. Any vacancy on the Board or newly created directorship will be filled by a majority vote of the remaining directors then in office, and those newly elected directors will serve for a term expiring at the next annual meeting of stockholders, and until such directors' successor has been elected and qualified.

Amendment of Bylaws. The Bylaws may be adopted, amended or repealed by a majority of the Board, subject to certain limitations in the Bylaws. The Company's stockholders also have the power to adopt, amend or repeal the Bylaws.

DESCRIPTION OF PREFERRED STOCK

This section summarizes the general terms and provisions of all series of the Company's preferred stock outstanding as of December 31, 2019. Certain of these series of preferred stock (or depositary shares representing a fractional interest in a share of such series of preferred stock) are registered under Section 12 of the Exchange Act, as indicated in each case by noting its listing. Reference is made to the Restated Certificate of Incorporation and the respective certificates of designations for each series of the

Company's preferred stock for complete information about the provisions of that series of preferred stock. See also "Description of Common Stock - Certain Anti-Takeover Matters" above.

Existing Series of Preferred Stock

As of December 31, 2019, under the Restated Certificate of Incorporation, the Company has authority to issue 100,000,000 shares of preferred stock, par value \$.01 per share. As of December 31, 2019, the Company had approximately 3.9 million issued and outstanding shares of preferred stock and the aggregate liquidation preference of all of the Company's outstanding preferred stock was approximately \$23.8 billion. All outstanding shares of the Company's preferred stock are fully paid and nonassessable. Of the Company's authorized and outstanding preferred stock, as of December 31, 2019:

- 35,045 shares were designated as 7% Cumulative Redeemable Preferred Stock, Series B (the "**Series B Preferred Stock**"), having a liquidation preference of \$100 per share, 7,110 shares of which were issued and outstanding;
- 85,100 shares were designated as Floating Rate Non-Cumulative Preferred Stock, Series E (the "**Series E Preferred Stock**"), having a liquidation preference of \$25,000 per share, 12,691 shares of which were issued and outstanding;
- 7,001 shares were designated as Floating Rate Non-Cumulative Preferred Stock, Series F (the "**Series F Preferred Stock**"), having a liquidation preference of \$100,000 per share, 1,409 shares of which were issued and outstanding;
- 8,501 shares were designated as Adjustable Rate Non-Cumulative Preferred Stock, Series G (the "**Series G Preferred Stock**"), having a liquidation preference of \$100,000 per share, 4,926 shares of which were issued and outstanding;
- 6,900,000 shares were designated as 7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L (the "**Series L Preferred Stock**"), having a liquidation preference of \$1,000 per share, 3,080,182 shares of which were issued and outstanding;
- 50,000 shares were designated as 6% Non-Cumulative Perpetual Preferred Stock, Series T (the "**Series T Preferred Stock**"), having a liquidation preference of \$100,000 per share, 354 shares of which were issued and outstanding;
- 40,000 shares were designated as Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series U (the "**Series U Preferred Stock**"), having a liquidation preference of \$25,000 per share, 40,000 shares of which were issued and outstanding;
- 80,000 shares were designated as Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series X (the "**Series X Preferred Stock**"), having a liquidation preference of \$25,000 per share, 80,000 shares of which were issued and outstanding;
- 44,000 shares were designated as 6.500% Non-Cumulative Preferred Stock, Series Y (the "**Series Y Preferred Stock**"), having a liquidation preference of \$25,000 per share, 44,000 shares of which were issued and outstanding;

- 56,000 shares were designated as Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series Z (the “**Series Z Preferred Stock**”), having a liquidation preference of \$25,000 per share, 56,000 shares of which were issued and outstanding;
- 76,000 shares were designated as Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series AA (the “**Series AA Preferred Stock**”), having a liquidation preference of \$25,000 per share, 76,000 shares of which were issued and outstanding;
- 44,000 shares were designated as 6.200% Non-Cumulative Preferred Stock, Series CC (the “**Series CC Preferred Stock**”), having a liquidation preference of \$25,000 per share, 44,000 shares of which were issued and outstanding;
- 40,000 shares were designated as Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series DD (the “**Series DD Preferred Stock**”), having a liquidation preference of \$25,000 per share, 40,000 shares of which were issued and outstanding;
- 36,000 shares were designated as 6.000% Non-Cumulative Preferred Stock, Series EE (the “**Series EE Preferred Stock**”), having a liquidation preference of \$25,000 per share, 36,000 shares of which were issued and outstanding;
- 94,000 shares were designated as Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series FF (the “**Series FF Preferred Stock**”), having a liquidation preference of \$25,000 per share, 94,000 shares of which were issued and outstanding;
- 55,200 shares were designated as 6.000% Non-Cumulative Preferred Stock, Series GG (the “**Series GG Preferred Stock**”), having a liquidation preference of \$25,000 per share, 54,000 shares of which were issued and outstanding;
- 34,160 shares were designated as 5.875% Non-Cumulative Preferred Stock, Series HH (the “**Series HH Preferred Stock**”), having a liquidation preference of \$25,000 per share, all of which were issued and outstanding;
- 40,000 shares were designated as Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series JJ (the “**Series JJ Preferred Stock**”), having a liquidation preference of \$25,000 per share, all of which were issued and outstanding;
- 60,950 shares were designated as 5.375% Non-Cumulative Preferred Stock, Series KK (the “**Series KK Preferred Stock**”), having a liquidation preference of \$25,000 per share, 55,900 shares of which were issued and outstanding;
- 52,400 shares were designated as 5.000% Non-Cumulative Preferred Stock, Series LL (the “**Series LL Preferred Stock**”), having a liquidation preference of \$25,000 per share, all of which were issued and outstanding;
- 21,000 shares were designated as Floating Rate Non-Cumulative Preferred Stock, Series 1 (the “**Series 1 Preferred Stock**”), having a liquidation preference of \$30,000 per share, 3,275 shares of which were issued and outstanding;

- 37,000 shares were designated as Floating Rate Non-Cumulative Preferred Stock, Series 2 (the “**Series 2 Preferred Stock**”), having a liquidation preference of \$30,000 per share, 9,967 shares of which were issued and outstanding;
- 20,000 shares were designated as Floating Rate Non-Cumulative Preferred Stock, Series 4 (the “**Series 4 Preferred Stock**”), having a liquidation preference of \$30,000 per share, 7,010 shares of which were issued and outstanding; and
- 50,000 shares were designated as Floating Rate Non-Cumulative Preferred Stock, Series 5 (the “**Series 5 Preferred Stock**”), having a liquidation preference of \$30,000 per share, 14,056 shares of which were issued and outstanding.

In addition, as of December 31, 2019, the following series of preferred stock were designated, but no shares of either of these series were outstanding: (1) approximately 1.03 million shares of ESOP Convertible Preferred Stock, Series C; and (2) approximately 20 million shares of \$2.50 Cumulative Convertible Preferred Stock, Series BB.

Series B Preferred Stock

Preferential Rights. The Series B Preferred Stock ranks senior to the Common Stock and ranks equally with the Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on liquidation. Shares of the Series B Preferred Stock are not convertible into or exchangeable for any shares of Common Stock or any other class of the Company’s capital stock. Holders of the Series B Preferred Stock do not have any preemptive rights, and the Series B Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences superior or equal to the Series B Preferred Stock without the consent of holders of Series B Preferred Stock.

Dividends. Holders of shares of Series B Preferred Stock are entitled to receive, when and as declared by the Board, cumulative cash dividends at an annual dividend rate per share of 7.00% of the stated value per share of Series B Preferred Stock. The stated value per share of the Series B Preferred Stock is \$100. Dividends are payable quarterly on such dates that are fixed by the Board. The Company cannot declare or pay cash dividends on any shares of Common Stock unless full cumulative dividends on the Series B Preferred Stock have been paid or declared and funds sufficient for the payment have been set apart.

Voting Rights. Each share of Series B Preferred Stock has equal voting rights, share for share, with each share of Common Stock.

Distributions. In the event of the Company’s voluntary or involuntary dissolution, liquidation, or winding up, the holders of Series B Preferred Stock are entitled to receive, after payment of the full liquidation preference on shares of any class of preferred stock ranking senior to the Series B Preferred Stock, but before any distribution on shares of Common Stock, liquidating distributions in the amount of the liquidation preference of \$100 per share plus accumulated dividends.

Redemption. Shares of Series B Preferred Stock are redeemable, in whole or in part, at the option of the holders, at the redemption price of \$100 per share plus accumulated and unpaid dividends, provided that (1) full cumulative dividends have been paid, or declared, and funds sufficient for payment set apart, on any class or series of preferred stock ranking senior to the Series B Preferred Stock; and (2) the Company is not then in default or in arrears on any sinking fund or analogous fund or call for tenders obligation or agreement for the purchase of any class or series of preferred stock ranking senior to Series B Preferred Stock. The Series B Preferred Stock is not subject to any mandatory redemption provisions or redemption at the option of the Company.

Series E Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series E Preferred Stock are listed on the NYSE under the symbol “BAC PrE”. See “Description of Depositary Shares” below.

Preferential Rights. The Series E Preferred Stock ranks senior to the Common Stock and ranks equally with the Series B Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company’s liquidation, dissolution, or winding up. Series E Preferred Stock is not convertible into or exchangeable for any shares of the Company’s Common Stock or any other class of its capital stock. Holders of the Series E Preferred Stock do not have any preemptive rights, and the Series E Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences superior or equal to the Series E Preferred Stock without the consent of the holders of the Series E Preferred Stock.

Dividends. Holders of the Series E Preferred Stock are entitled to receive non-cumulative cash dividends when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$25,000 per share of Series E Preferred Stock, payable quarterly in arrears on each February 15, May 15, August 15 and November 15 to record holders as of the last business day (as defined in the certificate of designations for the Series E Preferred Stock) of the calendar month immediately preceding the month in which the dividend payment date falls. Dividends on each share of Series E Preferred Stock accrue on the liquidation preference of \$25,000 per share at an annual rate per share equal to the greater of (a) three-month LIBOR plus a spread of 0.35%, and (b) 4.00%. The amount of dividends shall be computed on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a business day, then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day, in either case without any interest in respect of such delay.

As long as shares of Series E Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series E Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series E Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series E Preferred Stock for the then-current dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series E Preferred Stock

for any period unless full dividends on all outstanding shares of Series E Preferred Stock for the then-current dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series E Preferred Stock and on any capital stock ranking equally with the Series E Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series E Preferred Stock and the holders of any capital stock ranking equally with the Series E Preferred Stock.

Voting Rights. Holders of Series E Preferred Stock do not have voting rights, except as specifically required by Delaware law and in the case of certain dividend arrearages in relation to the Series E Preferred Stock. If any quarterly dividend payable on the Series E Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series E Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company’s preferred stock ranking equally with the Series E Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series E Preferred Stock have been conferred and are exercisable, for the election of two additional directors of the Board to fill two newly-created directorships (the “**Preferred Stock Directors**”). When the Company has paid full dividends on the Series E Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate.

Distributions. In the event of the Company’s voluntary or involuntary liquidation, dissolution, or winding up, holders of Series E Preferred Stock are entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series E Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation. Shares of Series E Preferred Stock are not subject to a sinking fund.

Redemption. The Company may redeem the Series E Preferred Stock in whole or in part, at its option, on any dividend payment date for the Series E Preferred Stock, at the redemption price equal to \$25,000 per share, plus any declared and unpaid dividends. Holders of the Series E Preferred Stock do not have any optional redemption rights.

Series F Preferred Stock

Preferential Rights. The Series F Preferred Stock ranks senior to the Common Stock and ranks equally with the Series B Preferred Stock, Series E Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company’s liquidation, dissolution, or winding up. The Series F Preferred Stock is not convertible into or exchangeable for any shares of the Common Stock or any other class of the Company’s capital stock. Holders of the Series F Preferred Stock do not have any preemptive rights and the Series F Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences superior or equal to the Series F Preferred Stock without the consent of the holders of the Series F Preferred Stock.

Dividends. Holders of the Series F Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$100,000 per share of Series F Preferred Stock, payable quarterly in arrears on each March 15, June 15, September 15 and December 15 to record holders as of the last business day (as defined in the certificate of designations for the Series F Preferred Stock) of the calendar month immediately preceding the month in which the dividend payment date falls. Dividends on each share of Series F Preferred Stock will accrue on the liquidation preference of \$100,000 per share at an annual rate per share equal to the greater of (a) three-month LIBOR plus a spread of 0.40%, and (b) 4.00%. The amount of dividends shall be computed on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a business day, then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day, in either case without any interest or other payment in respect of such delay.

As long as shares of Series F Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series F Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series F Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series F Preferred Stock for the then-current dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series F Preferred Stock unless full dividends on all outstanding shares of Series F Preferred Stock for the then-current dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series F Preferred Stock and on any capital stock ranking equally with the Series F Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series F Preferred Stock and the holders of any capital stock ranking equally with the Series F Preferred Stock.

Voting Rights. Holders of Series F Preferred Stock do not have voting rights, except as specifically required by Delaware law.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series F Preferred Stock are entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series F Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$100,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation. Shares of Series F Preferred Stock are not subject to a sinking fund.

Redemption. The Company may redeem the Series F Preferred Stock, in whole or in part, at its option, on any dividend payment date for the Series F Preferred Stock at the redemption price equal to \$100,000 per share, plus dividends that have been declared but not paid plus any accrued and unpaid dividends for the then-current dividend period to the redemption date. Holders of the Series F Preferred Stock do not have any optional redemption rights.

Series G Preferred Stock

Preferential Rights. The Series G Preferred Stock ranks senior to the Common Stock and ranks equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series L

Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. The Series G Preferred Stock is not convertible into or exchangeable for any shares of the Common Stock or any other class of the Company's capital stock. Holders of the Series G Preferred Stock do not have any preemptive rights, and the Series G Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences superior or equal to the Series G Preferred Stock without the consent of the holders of the Series G Preferred Stock.

Dividends. Holders of the Series G Preferred Stock are entitled to receive non-cumulative cash dividends when, as, and if declared by the Board or a duly authorized committee the Board out of funds legally available for payment, on the liquidation preference of \$100,000 per share of Series G Preferred Stock, payable quarterly in arrears on each March 15, June 15, September 15 and December 15 to record holders as of the last business day (as defined in the certificate of designations for the Series G Preferred Stock) of the calendar month immediately preceding the month in which the dividend payment date falls. Dividends on each share of Series G Preferred Stock will accrue on the liquidation preference of \$100,000 per share at an annual rate per share equal to the greater of (a) three-month LIBOR plus a spread of 0.40%, and (b) 4.00%. The amount of dividends shall be computed on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a business day, then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day, in either case without any interest or other payment in respect of such delay.

As long as shares of Series G Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series G Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series G Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series G Preferred Stock for the then-current dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series G Preferred Stock unless full dividends on all outstanding shares of Series G Preferred Stock for the then-current dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series G Preferred Stock and on any capital stock ranking equally with the Series G Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series G Preferred Stock and the holders of any capital stock ranking equally with the Series G Preferred Stock.

Voting Rights. Holders of Series G Preferred Stock do not have voting rights, except as specifically required by Delaware law.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series G Preferred Stock are entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of capital stock ranking junior to the Series G Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$100,000 per share, plus any

declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation. Shares of Series G Preferred Stock are not subject to a sinking fund.

Redemption. The Company may redeem the Series G Preferred Stock, in whole or in part, at its option, on any dividend payment date for the Series G Preferred Stock at the redemption price equal to \$100,000 per share, plus dividends that have been declared but not paid plus any accrued and unpaid dividends for the then-current dividend period to the redemption date. Holders of the Series G Preferred Stock do not have any optional redemption rights.

Series L Preferred Stock

Listing. The Series L Preferred Stock is listed on the NYSE under the symbol “BAC PrL”.

Preferential Rights. The Series L Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company’s liquidation, dissolution, or winding up. Holders of the Series L Preferred Stock do not have any preemptive rights, and the Series L Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences superior or equal to the Series L Preferred Stock without the consent of the holders of the Series L Preferred Stock.

Dividends. Holders of the Series L Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, at an annual dividend rate per share of 7.25% on the liquidation preference of \$1,000 per share of Series L Preferred Stock, payable quarterly in arrears on each January 15, April 15, July 15 and October 15 to record holders as of the first day of the calendar month in which the dividend payment date falls. The amount of dividends shall be computed on the basis of a 360-day year of twelve 30-day months. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series L Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day, in either case without any interest or other payment in respect of such delay.

As long as shares of Series L Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends on any shares of Common Stock or other capital stock ranking junior to the Series L Preferred Stock or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series L Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series L Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series L Preferred Stock for the then-current dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series L Preferred Stock for any period unless full dividends on all outstanding shares of Series L Preferred Stock for the then-current dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series L Preferred Stock and on any capital stock ranking equally with the Series L Preferred Stock but cannot make full payment of those declared dividends, the Company

will allocate the dividend payments on a pro rata basis among the holders of the shares of Series L Preferred Stock and the holders of any capital stock ranking equally with the Series L Preferred Stock.

Conversion Right. Each share of the Series L Preferred Stock may be converted at any time, at the option of the holder, into 20 shares of the Common Stock (which reflects an initial conversion price of \$50.00 per share of Common Stock) plus cash in lieu of fractional shares, subject to anti-dilution adjustments.

Conversion at the Company's Option. The Company may, at its option, at any time or from time to time, cause some or all of the Series L Preferred Stock to be converted into shares of its Common Stock at the then-applicable conversion rate if, for 20 trading days during any period of 30 consecutive trading days, the closing price of its Common Stock exceeds 130% of the then-applicable conversion price of the Series L Preferred Stock.

Conversion Upon Certain Acquisitions. If a make-whole acquisition occurs, holders of Series L Preferred Stock may cause the Series L Preferred Stock held by such holder to be converted into shares of the Common Stock, and the Company will, under certain circumstances, increase the conversion rate in respect of such conversions of the Series L Preferred Stock that occur during the period beginning on the effective date of the make-whole acquisition and ending on the date that is 30 days after the effective date by a number of additional shares of Common Stock. The amount of the make-whole adjustment, if any, will be based upon the price per share of the Common Stock and the effective date of the make-whole acquisition. Subject to certain exceptions, a "make-whole acquisition" occurs in the event of (1) the acquisition by a person or group of more than 50% of the voting power of the Common Stock or (2) the Company's consolidation or merger where it is not the surviving entity.

Conversion Upon Fundamental Change. In lieu of receiving the make-whole shares described above, if the reference price (as defined below) in connection with a make-whole acquisition is less than the applicable conversion price (a "fundamental change"), a holder may elect to convert each share of the Series L Preferred Stock during the period beginning on the effective date of the fundamental change and ending on the date that is 30 days after the effective date of such fundamental change at an adjusted conversion price equal to the greater of (1) the "reference price," which is the price per share of the Common Stock paid in the event of a fundamental change, and (2) \$19.95, which is 50% of the closing price of the Common Stock on January 24, 2008, the date of the initial offering of the Series L Preferred Stock, subject to adjustment (the "base price"). If the reference price is less than the base price, holders of the Series L Preferred Stock will receive a maximum of 50.1253 shares of the Common Stock per share of Series L Preferred Stock, subject to adjustment, which may result in a holder receiving value that is less than the liquidation preference of the Series L Preferred Stock.

Anti-Dilution Adjustments. The conversion rate may be adjusted in the event of, among other things, (1) stock dividend distributions, (2) subdivisions, splits, and combinations of the Common Stock, (3) issuance of stock purchase rights, (4) debt or asset distributions, (5) increases in cash dividends, and (6) tender or exchange offers for the Common Stock.

Voting Rights. Holders of Series L Preferred Stock do not have voting rights, except as specifically required by Delaware law and in the case of certain dividend arrearages in relation to the Series L Preferred Stock. If any quarterly dividend payable on the Series L Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series L Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series L Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series L Preferred

Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series L Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series L Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series L Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$1,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company does not have any rights to redeem the Series L Preferred Stock, and holders of the Series L Preferred Stock do not have any optional redemption rights.

Series T Preferred Stock

Preferential Rights. The Series T Preferred Stock ranks senior to the Common Stock and ranks equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution or winding up. Shares of the Series T Preferred Stock are not convertible into or exchangeable for any shares of Common Stock or any other class of the Company's capital stock. Holders of the Series T Preferred Stock do not have any preemptive rights, and the Series T Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series T Preferred Stock without the consent of holders of Series T Preferred Stock.

Dividends. Holders of shares of Series T Preferred Stock are entitled to receive, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, non-cumulative cash dividends at an annual dividend rate per share of 6.00% of the stated value per share of Series T Preferred Stock. The stated value per share of the Series T Preferred Stock is \$100,000. Dividends are payable quarterly in arrears on each January 10, April 10, July 10 and October 10 to record holders as of the fifteenth calendar day before the dividend payment date (or such other date fixed by the Board or a duly authorized committee of the Board that is not more than 60 nor less than 10 days prior to the payment date). The amount of dividends in respect of any dividend period shall be computed on the basis of a 360-day year of twelve 30-day months. The amount of dividends payable on any date prior to the end of a dividend period shall be computed on the basis of a 360-day year of twelve 30-day months and actual days elapsed over a 30-day month. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series T Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day.

The Company cannot declare or pay cash dividends on any shares of Common Stock, or generally purchase, redeem or otherwise acquire for consideration any Common Stock or other capital stock ranking equally with the Series T Preferred Stock, for any period unless dividends on all outstanding shares of the Series T Preferred Stock for such period have been paid or are contemporaneously declared and paid in full (or declared and funds sufficient for the payment have been set aside for the benefit of the holders of shares of Series T Preferred Stock). When dividends are not paid (or declared and set aside for payment)

on any applicable dividend payment date in full on the Series T Preferred Stock and on any stock ranking equally with the Series T Preferred Stock, all dividends declared on the Series T Preferred Stock and on any stock ranking equally with the Series T Preferred Stock and payable on such payment date will be declared pro rata.

Voting Rights. Holders of Series T Preferred Stock do not have voting rights, except as provided herein and as specifically required by law. As long as the Series T Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the shares of Series T Preferred Stock outstanding at the time (voting as a class with all other series of preferred stock ranking equally with the Series T Preferred Stock), and for so long as at least 10,000 shares of Series T Preferred Stock are outstanding, the affirmative vote of 50.1% of the shares of Series T outstanding, shall be necessary to permit, effect or validate (i) the authorization, creation, or issuance, or any increase in the authorized or issued amount, of any class or series of stock ranking senior to the Series T Preferred Stock or (ii) the amendment, alteration, or repeal, whether by merger, consolidation, or otherwise, of any of the provisions of the Restated Certificate of Incorporation or of the resolutions set forth in a certificate of designations for the Series T Preferred Stock, which would adversely affect any right, preference, or privilege or voting power of the Series T Preferred Stock, or of the holders thereof.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series T Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of Bank of America's assets may be made to or set aside for the holders of its capital stock ranking junior to the Series T Preferred Stock, a liquidating distribution in the amount of the liquidation preference of \$100,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to, but excluding, the date of liquidation, dissolution or winding up. Shares of Series T Preferred Stock will not be subject to a sinking fund. The Series T Preferred Stock may be fully subordinated to interests held by the U.S. government in the event that Bank of America Corporation enters into a receivership, insolvency, liquidation or similar proceeding.

Redemption. Subject to any required prior approval of the Board of Governors of the Federal Reserve System (the "**Federal Reserve**") and to the satisfaction of any conditions set forth in the capital adequacy guidelines or regulations of the Federal Reserve applicable to redemption of shares of the Series T Preferred Stock, the Company may redeem the Series T Preferred Stock, at its option, in whole at any time or in part from time to time, at the redemption price of \$105,000 per share plus any declared and unpaid dividends thereon, without accumulation for any undeclared dividends, to the redemption date. Holders of the Series T Preferred Stock do not have any optional redemption rights.

Series U Preferred Stock

Preferential Rights. The Series U Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Series U Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series U Preferred Stock do not have any preemptive rights, and the Series U Preferred Stock is not subject to the operation of any sinking fund. The Company may issue

stock with preferences equal to the Series U Preferred Stock without the consent of the holders of the Series U Preferred Stock.

Dividends. Holders of the Series U Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$25,000 per share, payable (a) for the “fixed rate period”, semi-annually in arrears on each June 1 and December 1, and (b) for the “floating rate period”, quarterly in arrears on each March 1, June 1, September 1 and December 1, beginning September 1, 2023, in each case to record holders as of the fifteenth day of the calendar month immediately preceding the month in which the dividend payment date falls. Dividends on each share of Series U Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate per annum equal to (1) 5.20%, for each dividend period from the issue date to, but excluding, June 1, 2023 (the “fixed rate period”), and (2) thereafter, at a floating rate equal to three-month LIBOR plus a spread of 3.135%, for each dividend period from, and including, June 1, 2023 (the “floating rate period”). The amount of dividends shall be computed (x) for the fixed rate period, on the basis of a 360-day year of twelve 30-day months, and (y) for the floating rate period, on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series U Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day (unless, for the fixed rate period, that day falls in the next calendar year or, for the floating rate period, that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding business day), (i) on or prior to June 1, 2023, without any interest or other payment in respect of such delay, and (ii) after June 1, 2023, with dividends accruing to the actual payment date.

As long as shares of Series U Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series U Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series U Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series U Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series U Preferred Stock for any period unless full dividends on all outstanding shares of Series U Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series U Preferred Stock and on any capital stock ranking equally with the Series U Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series U Preferred Stock and the holders of any capital stock ranking equally with the Series U Preferred Stock.

Voting Rights. Holders of Series U Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series U Preferred Stock is in arrears for three or more semi-annual dividend periods or six or more quarterly dividend periods, as applicable, whether or not for consecutive dividend periods, the holders of the Series U Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company’s preferred stock ranking equally with the Series U Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series U Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series U Preferred Stock for at least two semi-annual or four quarterly dividend

periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series U Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series U Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series U Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series U Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series U Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series U Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series U Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series U Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series U Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series U Preferred Stock, in whole or in part, at its option, at any time on or after June 1, 2023, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series U Preferred Stock, the Company may redeem the Series U Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series U Preferred Stock do not have any optional redemption rights.

Series X Preferred Stock

Preferential Rights. The Series X Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Series X Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series X Preferred Stock do not have any preemptive rights, and the Series E Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series X Preferred Stock without the consent of the holders of the Series X Preferred Stock.

Dividends. Holders of the Series X Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$25,000 per share of Series X Preferred Stock, payable (a) for the "fixed rate period", semiannually in arrears on each March 5 and

September 5, and (b) for the “floating rate period”, quarterly in arrears on each March 5, June 5, September 5 and December 5, beginning December 5, 2024, in each case to record holders as of the fifteenth day of the calendar month immediately preceding the month in which the dividend payment date falls (or such date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days before the dividend payment date). Dividends on each share of Series X Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate per annum equal to (1) 6.250%, for each dividend period from the issue date to, but excluding, September 5, 2024 (the “fixed rate period”), and (2) thereafter, at a floating rate equal to three-month LIBOR plus a spread of 3.705%, for each dividend period from, and including, September 5, 2024 (the “floating rate period”). The amount of dividends shall be computed (i) for the fixed rate period, on the basis of a 360-day year of twelve 30-day months, and (ii) for the floating rate period, on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series X Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day (unless, for the fixed rate period, that day falls in the next calendar year or, for the floating rate period, that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding business day), (i) on or prior to September 5, 2024, without any interest or other payment in respect of such delay, and (ii) after September 5, 2024, with dividends accruing to the actual payment date.

As long as shares of Series X Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series X Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series X Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series X Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series X Preferred Stock for any period unless full dividends on all outstanding shares of Series X Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declare dividends on the Series X Preferred Stock and on any capital stock ranking equally with the Series X Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series X Preferred Stock and the holders of any capital stock ranking equally with the Series X Preferred Stock.

Voting Rights. Holders of Series X Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series X Preferred Stock is in arrears for three or more semi-annual dividend periods or six or more quarterly dividend periods, as applicable, whether or not for consecutive dividend periods, the holders of the Series X Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company’s preferred stock ranking equally with the Series X Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series X Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series X Preferred Stock for at least two semi-annual or four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series X Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series X Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series X Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized

capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series X Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series X Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series X Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series X Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series X Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series X Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series X Preferred Stock, in whole or in part, at its option, at any time on or after September 5, 2024, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series X Preferred Stock, the Company may redeem the Series X Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series X Preferred Stock do not have any optional redemption rights.

Series Y Preferred Stock

Listing. As of December 31, 2019, depositary shares representing fractional interests in a share of Series Y Preferred Stock were listed on the NYSE under the symbol "BAC PrY". See "Description of Depositary Shares" below. The Series Y Preferred Stock (and thus the corresponding depositary shares) was redeemed in its entirety in January 2020.

Preferential Rights. The Series Y Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock; Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Series Y Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series Y Preferred Stock do not have any preemptive rights, and the Series Y Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series Y Preferred Stock without the consent of the holders of the Series Y Preferred Stock.

Dividends. Holders of the Series Y Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, at an annual dividend rate per share of 6.500% on the liquidation preference of \$25,000 per share, payable quarterly in arrears on each January 27, April 27, July 27 and

October 27, to record holders as of the first day of the calendar month in which the dividend payment date falls (or such other record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days prior to the dividend payment date). The amount of dividends shall be computed on the basis of a 360-day year of twelve 30-day months. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series Y Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day, without any interest or other payment in respect of such delay.

As long as shares of Series Y Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series Y Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series Y Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series Y Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series Y Preferred Stock for any period unless full dividends on all outstanding shares of Series Y Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series Y Preferred Stock and on any capital stock ranking equally with the Series Y Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series Y Preferred Stock and the holders of any capital stock ranking equally with the Series Y Preferred Stock.

Voting Rights. Holders of Series Y Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series Y Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series Y Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series Y Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series Y Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series Y Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series Y Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series Y Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series Y Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series Y Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series Y Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series Y Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series Y Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series Y Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set

aside for the holders of its capital stock ranking junior to the Series Y Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation. Shares of Series Y Preferred Stock will not be subject to a sinking fund.

Redemption. The Company may redeem the Series Y Preferred Stock, in whole or in part, at its option, at any time, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a “capital treatment event,” as described in the certificate of designations for the Series Y Preferred Stock, the Company may redeem the Series Y Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends.

Series Z Preferred Stock

Preferential Rights. The Series Z Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company’s liquidation, dissolution, or winding up. Series Z Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series Z Preferred Stock do not have any preemptive rights, and the Series Z Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series Z Preferred Stock without the consent of the holders of the Series Z Preferred Stock.

Dividends. Holders of the Series Z Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$25,000 per share, payable (a) for the “fixed rate period”, semiannually in arrears on each April 23 and October 23, and (b) for the “floating rate period”, quarterly in arrears on each January 23, April 23, July 23 and October 23, beginning on January 23, 2025, in each case to record holders as of the first day of the calendar month in which the dividend payment date falls (or such record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days before the dividend payment date). Dividends on each share of Series Z Preferred Stock will accrue on the on the liquidation preference of \$25,000 per share at a rate per annum equal to (1) 6.500%, for each dividend period from the issue date to, but excluding, October 23, 2024 (the “fixed rate period”), and (2) thereafter, at a floating rate equal to three-month LIBOR plus a spread of 4.174%, for each dividend period from, and including, October 23, 2024 (the “floating rate period”). The amount of dividends shall be computed (i) for the fixed rate period, on the basis of a 360-day year of twelve 30-day months, and (ii) for the floating rate period, on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series Z Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day (unless, for the fixed rate period, that day falls in the next calendar year or, for the floating rate period, that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding business day), (i) on or

prior to October 23, 2024, without any interest or other payment in respect of such delay, and (ii) after October 23, 2024, with dividends accruing to the actual payment date.

As long as shares of Series Z Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series Z Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series Z Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series Z Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series Z Preferred Stock for any period unless full dividends on all outstanding shares of Series Z Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series Z Preferred Stock and on any capital stock ranking equally with the Series Z Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series Z Preferred Stock and the holders of any capital stock ranking equally with the Series Z Preferred Stock.

Voting Rights. Holders of Series Z Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series Z Preferred Stock is in arrears for three or more semi-annual dividend periods or six or more quarterly dividend periods, as applicable, whether or not for consecutive dividend periods, the holders of the Series Z Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series Z Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series Z Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series Z Preferred Stock for at least two semi-annual or four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series Z Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series Z Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series Z Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series Z Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series Z Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series Z Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series Z Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series Z Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series Z Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series Z Preferred Stock, in whole or in part, at its option, at any time on or after October 23, 2024, at the redemption price equal to \$25,000 per share, plus

any accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a “capital treatment event,” as described in the certificate of designations for the Series Z Preferred Stock, the Company may redeem the Series Z Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series Z Preferred Stock do not have any optional redemption rights.

Series AA Preferred Stock

Preferential Rights. The Series AA Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock Series, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company’s liquidation, dissolution, or winding up. Series AA Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series AA Preferred Stock do not have any preemptive rights, and the Series AA Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series AA Preferred Stock without the consent of the holders of the Series AA Preferred Stock.

Dividends. Holders of the Series AA Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$25,000 per share of Series AA Preferred Stock, payable (a) for the “fixed rate period”, semiannually in arrears on each March 17 and September 17, and (b) for the “floating rate period”, quarterly in arrears on each March 17, June 17, September 17 and December 17, beginning on June 17, 2025, in each case to record holders as of the first day of the calendar month in which the dividend payment date falls (or such record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days before the dividend payment date). Dividends on each share of Series AA Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate per annum equal to (1) 6.100%, for each dividend period from the issue date to, but excluding, March 17, 2025 (the “fixed rate period”), and (2) thereafter, at a floating rate equal to three-month LIBOR plus a spread of 3.898%, for each dividend period from, and including, March 17, 2025 (the “floating rate period”). The amount of dividends shall be computed (i) during the fixed rate period, on the basis of a 360-day year of twelve 30-day months, and (ii) during the floating rate period, on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series AA Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day (unless, for the fixed rate period, that day falls in the next calendar year or, for the floating rate period, that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding business day), (i) on or prior to March 17, 2025, without any interest or other payment in respect of such delay, and (ii) after March 17, 2025, with dividends accruing to the actual payment date.

As long as shares of Series AA Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series AA

Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series AA Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series AA Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series AA Preferred Stock for any period unless full dividends on all outstanding shares of Series AA Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series AA Preferred Stock and on any capital stock ranking equally with the Series AA Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series AA Preferred Stock and the holders of any capital stock ranking equally with the Series AA Preferred Stock.

Voting Rights. Holders of Series AA Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series AA Preferred Stock is in arrears for three or more semi-annual dividend periods or six or more quarterly dividend periods, as applicable, whether or not for consecutive dividend periods, the holders of the Series AA Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series AA Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series AA Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series AA Preferred Stock for at least two semi-annual or four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series AA Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series AA Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series AA Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series AA Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series AA Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series AA Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series AA Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series AA Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series AA Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series AA Preferred Stock, in whole or in part, at its option, at any time on or after March 17, 2025, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series AA Preferred Stock, the Company may redeem the Series AA Preferred Stock, in whole but not in part, at a redemption price

equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series AA Preferred Stock do not have any optional redemption rights.

Series CC Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series CC Preferred Stock are listed on the NYSE under the symbol “BAC PrC”. See “Description of Depositary Shares” below.

Preferential Rights. The Series CC Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company’s liquidation, dissolution, or winding up. Series CC Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series CC Preferred Stock do not have any preemptive rights, and the Series CC Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series CC Preferred Stock without the consent of the holders of the Series CC Preferred Stock.

Dividends. Holders of the Series CC Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, at an annual dividend rate per share of 6.200% on the liquidation preference of \$25,000 per share, payable quarterly in arrears on each January 29, April 29, July 29 and October 29, to record holders as of the first day of the calendar month in which the dividend payment date falls (or such other record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days prior to the dividend payment date). The amount of dividends shall be computed on the basis of a 360-day year of twelve 30-day months. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series CC Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day, without any interest or other payment in respect of such delay.

As long as shares of Series CC Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series CC Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series CC Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series CC Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series CC Preferred Stock for any period unless full dividends on all outstanding shares of Series CC Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series CC Preferred Stock and on any capital stock ranking equally with the Series CC Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro

rata basis among the holders of the shares of Series CC Preferred Stock and the holders of any capital stock ranking equally with the Series CC Preferred Stock.

Voting Rights. Holders of Series CC Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series CC Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series CC Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series CC Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series CC Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series CC Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series CC Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series CC Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series CC Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series CC Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series CC Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series CC Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series CC Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series CC Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series CC Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series CC Preferred Stock, in whole or in part, at its option, at any time on or after January 29, 2021, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series CC Preferred Stock, the Company may redeem the Series CC Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series CC Preferred Stock do not have any optional redemption rights.

Series DD Preferred Stock

Preferential Rights. The Series DD Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock,

Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Series DD Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series DD Preferred Stock do not have any preemptive rights, and the Series DD Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series DD Preferred Stock without the consent of the holders of the Series DD Preferred Stock.

Dividends. Holders of the Series DD Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$25,000 per share of Series DD Preferred Stock, payable (a) for the "fixed rate period", semiannually in arrears on each March 10 and September 10, and (b) for the "floating rate period", quarterly in arrears on each March 10, June 10, September 10 and December 10, beginning on June 10, 2026, in each case to record holders as of the fifteenth day of the calendar month preceding the month in which the dividend payment date falls (or such record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days before the dividend payment date). Dividends on each share of Series DD Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate per annum equal to (1) 6.300%, for each dividend period from the issue date to, but excluding, March 10, 2026 (the "fixed rate period"), and (2) thereafter, at a floating rate equal to three-month LIBOR plus a spread of 4.553%, for each dividend period from, and including, March 10, 2026 (the "floating rate period"). The amount of dividends shall be computed (i) for the fixed rate period, on the basis of a 360-day year of twelve 30-day months, and (ii) for the floating rate period, on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series DD Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day (unless, for the fixed rate period, that day falls in the next calendar year or, for the floating rate period, that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding business day), (i) on or prior to March 10, 2026, without any interest or other payment in respect of such delay, and (ii) after March 10, 2026, with dividends accruing to the actual payment date.

As long as shares of Series DD Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series DD Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series DD Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series DD Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series DD Preferred Stock for any period unless full dividends on all outstanding shares of Series DD Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series DD Preferred Stock and on any capital stock ranking equally with the Series DD Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series DD Preferred Stock and the holders of any capital stock ranking equally with the Series DD Preferred Stock.

Voting Rights. Holders of Series DD Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series DD

Preferred Stock is in arrears for three or more semi-annual dividend periods or six or more quarterly dividend periods, as applicable, whether or not for consecutive dividend periods, the holders of the Series DD Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series DD Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series DD Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series DD Preferred Stock for at least two semi-annual or four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series DD Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series DD Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series DD Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series DD Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series DD Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series DD Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series DD Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series DD Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series DD Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series DD Preferred Stock, in whole or in part, at its option, at any time on or after March 10, 2026, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series DD Preferred Stock, the Company may redeem the Series DD Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series DD Preferred Stock do not have any optional redemption rights.

Series EE Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series EE Preferred Stock are listed on the NYSE under the symbol "BAC PrA". See "Description of Depositary Shares" below.

Preferential Rights. The Series EE Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to

dividends and distributions on the Company's liquidation, dissolution, or winding up. Series EE Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series EE Preferred Stock do not have any preemptive rights, and the Series EE Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series EE Preferred Stock without the consent of the holders of the Series EE Preferred Stock.

Dividends. Holders of the Series EE Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, at an annual dividend rate per share of 6.000% on the liquidation preference of \$25,000 per share, payable quarterly in arrears on each January 25, April 25, July 25 and October 25, to record holders as of the first day of the calendar month in which the dividend payment date falls (or such other record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days prior to the dividend payment date). The amount of dividends shall be computed on the basis of a 360-day year of twelve 30-day months. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series EE Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day, without any interest or other payment in respect of such delay.

As long as shares of Series EE Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series EE Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series EE Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series EE Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series EE Preferred Stock for any period unless full dividends on all outstanding shares of Series EE Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series EE Preferred Stock and on any capital stock ranking equally with the Series EE Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series EE Preferred Stock and the holders of any capital stock ranking equally with the Series EE Preferred Stock.

Voting Rights. Holders of Series EE Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series EE Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series EE Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series EE Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series EE Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series EE Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series EE Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series EE Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series EE Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-

up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series EE Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series EE Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series EE Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series EE Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series EE Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series EE Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series EE Preferred Stock, in whole or in part, at its option, at any time on or after April 25, 2021, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series EE Preferred Stock, the Company may redeem the Series EE Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series EE Preferred Stock do not have any optional redemption rights.

Series FF Preferred Stock

Preferential Rights. The Series FF Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Series FF Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series FF Preferred Stock do not have any preemptive rights, and the Series FF Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series FF Preferred Stock without the consent of the holders of the Series FF Preferred Stock.

Dividends. Holders of the Series FF Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$25,000 per share of Series FF Preferred Stock, payable (a) for the "fixed rate period", semiannually in arrears on each March 15 and September 15, and (b) for the "floating rate period", quarterly in arrears on each March 15, June 15, September 15 and December 15, beginning on June 15, 2028, in each case to record holders as of the first day of the calendar month in which the dividend payment date falls (or such record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days before the

dividend payment date). Dividends on each share of Series FF Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate per annum equal to (1) 5.875%, for each dividend period from the issue date to, but excluding, March 15, 2028 (the “fixed rate period”), and (2) thereafter, at a floating rate equal to three-month LIBOR plus a spread of 2.931%, for each dividend period from and including March 15, 2028 (the “floating rate period”). The amount of dividends shall be computed (i) for the fixed rate period, on the basis of a 360-day year of twelve 30-day months, and (ii) for the floating rate period, on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series FF Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day (unless, for the fixed rate period, that day falls in the next calendar year or, for the floating rate period, that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding business day), (i) on or prior to March 15, 2028, without any interest or other payment in respect of such delay, and (ii) after March 15, 2028, with dividends accruing to the actual payment date.

As long as shares of Series FF Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series FF Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series FF Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series FF Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series FF Preferred Stock for any period unless full dividends on all outstanding shares of Series FF Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series FF Preferred Stock and on any capital stock ranking equally with the Series FF Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series FF Preferred Stock and the holders of any capital stock ranking equally with the Series FF Preferred Stock.

Voting Rights. Holders of Series FF Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series FF Preferred Stock is in arrears for three or more semi-annual dividend periods or six or more quarterly dividend periods, as applicable, whether or not for consecutive dividend periods, the holders of the Series FF Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company’s preferred stock ranking equally with the Series FF Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series FF Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series FF Preferred Stock for at least two semi-annual or four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series FF Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series FF Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series FF Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series FF Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series FF Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series FF Preferred Stock or the Restated

Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series FF Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series FF Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series FF Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series FF Preferred Stock, in whole or in part, at its option, at any time on or after March 15, 2028, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series FF Preferred Stock, the Company may redeem the Series FF Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series FF Preferred Stock do not have any optional redemption rights.

Series GG Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series GG Preferred Stock are listed on the NYSE under the symbol "BAC PrB". See "Description of Depositary Shares" below.

Preferential Rights. The Series GG Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Series GG Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series GG Preferred Stock do not have any preemptive rights, and the Series GG Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series GG Preferred Stock without the consent of the holders of the Series GG Preferred Stock.

Dividends. Holders of the Series GG Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, at an annual dividend rate per share of 6.000% on the liquidation preference of \$25,000 per share, payable quarterly in arrears on each February 16, May 16, August 16 and November 16, to record holders as of the first day of the calendar month in which the dividend payment date falls (or such other record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days prior to the dividend payment date). The amount of dividends shall be computed on the basis of a 360-day year of twelve 30-day months. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series GG Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls

in the next calendar year in which case payment will occur on the immediately preceding business day, without any interest or other payment in respect of such delay.

As long as shares of Series GG Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series GG Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series GG Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series GG Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series GG Preferred Stock for any period unless full dividends on all outstanding shares of Series GG Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declare dividends on the Series GG Preferred Stock and on any capital stock ranking equally with the Series GG Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series GG Preferred Stock and the holders of any capital stock ranking equally with the Series GG Preferred Stock.

Voting Rights. Holders of Series GG Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series GG Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series GG Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series GG Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series GG Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series GG Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series GG Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series GG Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series GG Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series GG Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series GG Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series GG Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series GG Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series GG Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series GG Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series GG Preferred Stock, in whole or in part, at its option, at any time on or after May 16, 2023, at the redemption price equal to \$25,000 per share, plus any

accrued and unpaid dividends, for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a “capital treatment event,” as described in the certificate of designations for the Series GG Preferred Stock, the Company may redeem the Series GG Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series GG Preferred Stock do not have any optional redemption rights.

Series HH Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series HH Preferred Stock are listed on the NYSE under the symbol “BAC PrK”. See “Description of Depositary Shares” below.

Preferential Rights. The Series HH Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company’s liquidation, dissolution, or winding up. Series HH Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series HH Preferred Stock do not have any preemptive rights, and the Series HH Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series HH Preferred Stock without the consent of the holders of the Series HH Preferred Stock.

Dividends. Holders of the Series HH Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, at an annual dividend rate per share of 5.875% on the liquidation preference of \$25,000 per share, payable quarterly in arrears on each January 24, April 24, July 45 and October 24, to record holders as of the first day of the calendar month in which the dividend payment date falls (or such other record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days prior to the dividend payment date). The amount of dividends shall be computed on the basis of a 360-day year of twelve 30-day months. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series HH Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day, without any interest or other payment in respect of such delay.

As long as shares of Series HH Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series HH Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series HH Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series HH Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series HH Preferred Stock for any period unless full dividends on all outstanding shares of Series HH Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum

sufficient for the payment thereof is set aside. If the Company declares dividends on the Series HH Preferred Stock and on any capital stock ranking equally with the Series HH Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series HH Preferred Stock and the holders of any capital stock ranking equally with the Series HH Preferred Stock.

Voting Rights. Holders of Series HH Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series HH Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series HH Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series HH Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series HH Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series HH Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series HH Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series HH Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series HH Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series HH Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series HH Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series HH Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series HH Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series HH Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series HH Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series HH Preferred Stock, in whole or in part, at its option, at any time on or after July 24, 2023, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series HH Preferred Stock, the Company may redeem the Series HH Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series HH Preferred Stock do not have any optional redemption rights.

Series JJ Preferred Stock

Preferential Rights. The Series JJ Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred

Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Series JJ Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series JJ Preferred Stock do not have any preemptive rights, and the Series JJ Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series JJ Preferred Stock without the consent of the holders of the Series JJ Preferred Stock.

Dividends. Holders of the Series JJ Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$25,000 per share of Series JJ Preferred Stock, payable (a) for the "fixed rate period", semi-annually in arrears on each June 20 and December 20, and (b) for the "floating rate period", quarterly in arrears on each March 20, June 20, September 20 and December 20, beginning on September 20, 2024, in each case to record holders as of the first day of the calendar month in which the dividend payment date falls (or such record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days before the dividend payment date). Dividends on each share of Series JJ Preferred Stock will accrue on the liquidation preference of \$25,000 per share at a rate per annum equal to (1) 5.125%, for each dividend period from the issue date to, but excluding, June 20, 2024 (the "fixed rate period") and (2) thereafter, at a floating rate equal to three-month LIBOR (which rate is subject to replacement upon the occurrence of a "Benchmark Transition Event" and its related "Benchmark Replacement Date", as described in the certificate of designations for the Series JJ Preferred Stock) plus a spread of 3.292%, for each dividend period from, and including, June 20, 2024 (the "floating rate period"). The amount of dividends shall be computed (i) for the fixed rate period, on the basis of a 360-day year of twelve 30-day months, and (ii) for the floating rate period, on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date for the fixed rate period is not a business day (as defined in the certificate of designations for the Series JJ Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar year, in which case payment will occur on the immediately preceding business day, in each case without additional dividends accruing or other payment adjustment and the relevant dividend period will not be adjusted. If any dividend payment date for the floating rate period is not a business day, then that dividend payment will be made on the next succeeding day that is a business day, unless that day falls in the next calendar month, in which case the immediately preceding business day will be the dividend payment date for that dividend period, in each case with dividends accruing to, but excluding, the actual payment date, and the dividend period will be adjusted.

As long as shares of Series JJ Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of the Common Stock or other capital stock ranking junior to the Series JJ Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series JJ Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series JJ Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series JJ Preferred Stock for any period unless full dividends on all outstanding shares of Series JJ Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for

the payment thereof is set aside. If the Company declares dividends on the Series JJ Preferred Stock and on any capital stock ranking equally with the Series JJ Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series JJ Preferred Stock and the holders of any capital stock ranking equally with the Series JJ Preferred Stock.

Voting Rights. Holders of Series JJ Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series JJ Preferred Stock is in arrears for three or more semi-annual dividend periods or for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series JJ Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series JJ Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series JJ Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series JJ Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series JJ Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series JJ Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series JJ Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series JJ Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series JJ Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series JJ Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series JJ Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series JJ Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series JJ Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series JJ Preferred Stock, in whole or in part, at its option, at any time on or after June 20, 2024, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series JJ Preferred Stock, the Company may redeem the Series JJ Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series JJ Preferred Stock do not have any optional redemption rights.

Series KK Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series KK Preferred Stock are listed on the NYSE under the symbol "BAC PrM". See "Description of Depositary Shares" below.

Preferential Rights. The Series KK Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Series KK Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series KK Preferred Stock do not have any preemptive rights, and the Series KK Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series KK Preferred Stock without the consent of the holders of the Series KK Preferred Stock.

Dividends. Holders of the Series KK Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, at an annual dividend rate per share of 5.375% on the liquidation preference of \$25,000 per share, payable quarterly in arrears on each March 25, June 25, September 25 and December 25, to record holders as of the first day of the calendar month in which the dividend payment date falls (or such other record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days prior to the dividend payment date). The amount of dividends shall be computed on the basis of a 360-day year of twelve 30-day months. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series KK Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day (unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day), in each case without any additional dividends accruing or other payment adjustment and the relevant dividend period will not be adjusted.

As long as shares of Series KK Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series KK Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series KK Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series KK Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series KK Preferred Stock for any period unless full dividends on all outstanding shares of Series KK Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series KK Preferred Stock and on any capital stock ranking equally with the Series KK Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series KK Preferred Stock and the holders of any capital stock ranking equally with the Series KK Preferred Stock.

Voting Rights. Holders of Series KK Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series KK Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series KK Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series KK Preferred Stock

as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series KK Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series KK Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series KK Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series KK Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series KK Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series KK Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series KK Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series KK Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series KK Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series KK Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series KK Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series KK Preferred Stock, in whole or in part, at its option, at any time on or after June 25, 2024, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series KK Preferred Stock, the Company may redeem the Series KK Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series KK Preferred Stock do not have any optional redemption rights.

Series LL Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series LL Preferred Stock are listed on the NYSE under the symbol “BAC PrN”. See “Description of Depositary Shares” below.

Preferential Rights. The Series LL Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company’s liquidation, dissolution, or winding up. Series LL Preferred Stock is not convertible into or exchangeable for any shares of its Common Stock or any other class of its capital stock. Holders of the Series LL Preferred Stock do not have any preemptive rights, and the Series LL Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series LL Preferred Stock without the consent of the holders of the Series LL Preferred Stock.

Dividends. Holders of the Series LL Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, at an annual dividend rate per share of 5.000% on the liquidation preference of \$25,000 per share, payable quarterly in arrears on each March 17, June 17, September 17 and December 17, to record holders as of the first day of the calendar month in which the dividend payment date falls (or such other record date fixed by the Board or a duly authorized Board committee that is not more than 60 days nor less than 10 days prior to the dividend payment date). The amount of dividends shall be computed on the basis of a 360-day year of twelve 30-day months. If any dividend payment date is not a business day (as defined in the certificate of designations for the Series LL Preferred Stock), then that dividend payment will be made on the next succeeding day that is a business day (unless that day falls in the next calendar year in which case payment will occur on the immediately preceding business day), in each case without any additional dividends accruing or other payment adjustment and the relevant dividend period will not be adjusted.

As long as shares of Series LL Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or generally repurchase, redeem or otherwise acquire for consideration any shares of its Common Stock or other capital stock ranking junior to the Series LL Preferred Stock, or generally repurchase, redeem or otherwise acquire for consideration any capital stock ranking equally with the Series LL Preferred Stock other than on a pro rata basis, in each case unless full dividends on all outstanding shares of Series LL Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. The Company cannot declare or pay cash dividends on capital stock ranking equally with the Series LL Preferred Stock for any period unless full dividends on all outstanding shares of Series LL Preferred Stock for the immediately preceding dividend period have been paid in full or declared and a sum sufficient for the payment thereof is set aside. If the Company declares dividends on the Series LL Preferred Stock and on any capital stock ranking equally with the Series LL Preferred Stock but cannot make full payment of those declared dividends, the Company will allocate the dividend payments on a pro rata basis among the holders of the shares of Series LL Preferred Stock and the holders of any capital stock ranking equally with the Series LL Preferred Stock.

Voting Rights. Holders of Series LL Preferred Stock do not have voting rights, except as described herein and as specifically required by Delaware law. If any dividend payable on the Series LL Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series LL Preferred Stock will be entitled to vote as a class, together with the holders of all series of the Company's preferred stock ranking equally with the Series LL Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series LL Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors. When the Company has paid full dividends on the Series LL Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate. As long as the Series LL Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least 66 2/3% of the voting power of the Series LL Preferred Stock and any voting parity stock shall be necessary to authorize, create or issue any capital stock ranking senior to the Series LL Preferred Stock as to dividends or the distribution of assets upon liquidation, dissolution or winding-up, or to reclassify any authorized capital stock into any such shares of such capital stock or issue any obligation or security convertible into or evidencing the right to purchase any such shares of capital stock. In addition, so long as any shares of the Series LL Preferred Stock remain outstanding, the affirmative vote of the holders of at least 66 2/3% of the voting power of the Series LL Preferred Stock shall be necessary to amend, alter or repeal any provision of the certificate of designations for the Series LL Preferred Stock or the Restated Certificate of Incorporation so as to adversely affect the powers, preferences or special rights of the Series LL Preferred Stock.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series LL Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series LL Preferred Stock as to distributions, a liquidating distribution in the amount of the liquidation preference of \$25,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series LL Preferred Stock, in whole or in part, at its option, at any time on or after September 17, 2024, at the redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. In addition, at any time within 90 days after a "capital treatment event," as described in the certificate of designations for the Series LL Preferred Stock, the Company may redeem the Series LL Preferred Stock, in whole but not in part, at a redemption price equal to \$25,000 per share, plus any accrued and unpaid dividends for the then-current dividend period to, but excluding, the redemption date, without accumulation of any undeclared dividends. Holders of the Series LL Preferred Stock do not have any optional redemption rights.

Series 1 Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series 1 Preferred Stock are listed on the NYSE under the symbol "BML PrG". See "Description of Depositary Shares" below.

Preferential Rights. The Series 1 Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series

LL Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Shares of the Series 1 Preferred Stock are not convertible into or exchangeable for any shares of Common Stock or any other class of the Company's capital stock. Holders of the Series 1 Preferred Stock do not have any preemptive rights, and the Series 1 Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series 1 Preferred Stock without the consent of the holders of the Series 1 Preferred Stock.

Dividends. Holders of the Series 1 Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$30,000 per share at an annual floating rate per share equal to the greater of (a) three-month LIBOR, plus a spread of 0.75% and (b) 3.00%, payable quarterly, if declared, on each February 28, May 28, August 28 and November 28, to record holders as of the date fixed by the Board or a duly authorized Board committee that is a date not more than 30 nor less than 10 days preceding the applicable payment date. The amount of dividends payable for a period shorter than a full dividend period shall be computed on the basis of a 360-day year of twelve 30-day months and the actual number of days elapsed in any period of less than one month. If any dividend payment date is not a New York business day and a London business day (each as defined in the certificate of designations for the Series 1 Preferred Stock), then that dividend payment will be made on the next succeeding day that is both a New York business day and a London business day (unless that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding day that is both a New York business day and a London business day).

As long as shares of Series 1 Preferred Stock remain outstanding, generally the Company cannot declare or pay cash dividends or distributions on or redeem, purchase or acquire any shares of Common Stock or other capital stock ranking junior to the Series 1 Preferred Stock unless full dividends on all outstanding shares of Series 1 Preferred Stock have been declared, paid or set aside for payment for the immediately preceding dividend period. The Company cannot declare or pay cash dividends or distributions on or redeem, purchase or acquire any capital stock ranking equally with the Series 1 Preferred Stock for any period unless for such dividend period full dividends on all outstanding shares of Series 1 Preferred Stock for the immediately preceding dividend period have been declared, paid or set aside for payment. When dividends are not paid in full upon the shares of the Series 1 Preferred Stock and any capital stock ranking equally with the Series 1 Preferred Stock, all dividends declared upon shares of the Series 1 Preferred Stock and all shares of capital stock ranking equally with the Series 1 Preferred Stock shall be declared pro rata so that the amount of dividends declared per share on the Series 1 Preferred Stock and all such other of the Company's stock shall in all cases bear to each other the same ratio that accrued dividends per share on the shares of the Series 1 Preferred Stock and all such other stock bear to each other.

Voting Rights. Holders of Series 1 Preferred Stock do not have voting rights, except as provided herein and as specifically required by law. Holders of Series 1 Preferred Stock shall be entitled to vote on all matters submitted to a vote of the holders of Common Stock, voting together with the holders of Common Stock as one class, and each share of Series 1 Preferred Stock shall be entitled to 150 votes. If any quarterly dividend payable on the Series 1 Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series 1 Preferred Stock will be entitled to vote as a class, together with the holders of all series of preferred stock ranking equally with the Series 1 Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series 1 Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors; each share of Series 1 Preferred Stock shall

be entitled to three votes for the election of such Preferred Stock Directors. When the Company has paid full dividends on the Series 1 Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate.

As long as the Series 1 Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least two-thirds of the shares of Series 1 Preferred Stock, outstanding at the time (voting as a class with all other series of preferred stock ranking equally with the Series 1 Preferred Stock) shall be necessary to permit, effect or validate (i) the authorization, creation, or issuance, or any increase in the authorized or issued amount, of any class or series of stock ranking prior to the Series 1 Preferred Stock or (ii) the amendment, alteration, or repeal, whether by merger, consolidation, or otherwise, of any of the provisions of the Restated Certificate of Incorporation or of the resolutions set forth in a certificate of designations for the Series 1 Preferred Stock, which would adversely affect any right, preference, or privilege or voting power of the Series 1 Preferred Stock, or of the holders thereof.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series 1 Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of Bank of America capital stock ranking junior to the Series 1 Preferred Stock, a liquidating distribution in the amount of the liquidation preference of \$30,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series 1 Preferred Stock, in whole or in part, at its option, at the redemption price equal to \$30,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends. Holders of the Series 1 Preferred Stock do not have any optional redemption rights.

Series 2 Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series 2 Preferred Stock are listed on the NYSE under the symbol "BML PrH". See "Description of Depositary Shares" below.

Preferential Rights. The Series 2 Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 4 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on the Company's liquidation, dissolution, or winding up. Shares of the Series 2 Preferred Stock are not convertible into or exchangeable for any shares of Common Stock or any other class of the Company's capital stock. Holders of the Series 2 Preferred Stock do not have any preemptive rights, and the Series 2 Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series 2 Preferred Stock without the consent of the holders of the Series 2 Preferred Stock.

Dividends. Holders of the Series 2 Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee of the Board out of funds legally available for payment, on the liquidation preference of \$30,000 per share at an annual floating rate per share equal to the greater of (a) three-month LIBOR, plus a spread of 0.65% and (b) 3.00%, payable quarterly in arrears, if declared, on each February 28, May 28, August 28 and November

28, to record holders as of the date fixed by the Board or a duly authorized Board committee that is a date not more than 30 nor less than 10 days preceding the applicable payment date. The amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a New York business day and a London business day (each as defined in the certificate of designations for the Series 2 Preferred Stock), then that dividend payment will be made on the next succeeding day that is both a New York business day and a London business day (unless that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding day that is both a New York business day and a London business day).

As long as shares of Series 2 Preferred Stock remain outstanding, generally the Company cannot declare or pay cash dividends or distributions on or redeem, purchase or acquire any shares of Common Stock or other capital stock ranking junior to the Series 2 Preferred Stock unless full dividends on all outstanding shares of Series 2 Preferred Stock have been declared, paid or set aside for payment for the immediately preceding dividend period. The Company cannot declare or pay cash dividends or distributions on or redeem, purchase or acquire capital stock ranking equally with the Series 2 Preferred Stock for any period unless for such dividend period full dividends on all outstanding shares of Series 2 Preferred Stock for the immediately preceding dividend period have been declared, paid or set aside for payment. When dividends are not paid in full upon the shares of the Series 2 Preferred Stock and any capital stock ranking equally with the Series 2 Preferred Stock, all dividends declared upon shares of the Series 2 Preferred Stock and all shares of capital stock ranking equally with the Series 2 Preferred Stock shall be declared pro rata so that the amount of dividends declared per share on the Series 2 Preferred Stock and all such other stock of the Company shall in all cases bear to each other the same ratio that accrued dividends per share on the shares of the Series 2 Preferred Stock and all such other stock bear to each other.

Voting Rights. Holders of Series 2 Preferred Stock do not have voting rights, except as provided herein and as specifically required by law. Holders of Series 2 Preferred Stock shall be entitled to vote on all matters submitted to a vote of the holders of Common Stock, voting together with the holders of Common Stock as one class, and each share of Series 2 Preferred Stock shall be entitled to 150 votes. If any quarterly dividend payable on the Series 2 Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series 2 Preferred Stock will be entitled to vote as a class, together with the holders of all series of preferred stock ranking equally with the Series 2 Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series 2 Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors; each share of Series 2 Preferred Stock shall be entitled to three votes for the election of such Preferred Stock Directors. When the Company has paid full dividends on the Series 2 Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate.

As long as the Series 2 Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least two-thirds of the shares of Series 2 Preferred Stock, outstanding at the time (voting as a class with all other series of preferred stock ranking equally with the Series 2 Preferred Stock), shall be necessary to permit, effect, or validate (i) the authorization, creation, or issuance, or any increase in the authorized or issued amount, of any class or series of stock ranking prior to the Series 2 Preferred Stock or (ii) the amendment, alteration, or repeal, whether by merger, consolidation, or otherwise, of any of the provisions of the Restated Certificate of Incorporation or of the resolutions set forth in a certificate of designations for the Series 2 Preferred Stock, which would adversely affect any right, preference, or privilege or voting power of the Series 2 Preferred Stock, or of the holders thereof.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series 2 Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series 2 Preferred Stock, a liquidating distribution in the amount of the liquidation preference of \$30,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series 2 Preferred Stock, in whole or in part, at its option, at the redemption price equal to \$30,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends. Holders of the Series 2 Preferred Stock do not have any optional redemption rights.

Series 4 Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series 4 Preferred Stock are listed on the NYSE under the symbol "BML PrJ". See "Description of Depositary Shares" below.

Preferential Rights. The Series 4 Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, and Series 5 Preferred Stock as to dividends and distributions on Bank of America's liquidation, dissolution, or winding up. Shares of the Series 4 Preferred Stock are not convertible into or exchangeable for any shares of Common Stock or any other class of the Company's capital stock. Holders of the Series 4 Preferred Stock do not have any preemptive rights, and the Series 4 Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series 4 Preferred Stock without the consent of the holders of the Series 4 Preferred Stock.

Dividends. Holders of the Series 4 Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee the Board out of funds legally available for payment, on the liquidation preference of \$30,000 per share at an annual floating rate per share equal to the greater of (a) three-month LIBOR, plus a spread of 0.75% and (b) 4.00%, payable quarterly in arrears, if declared, on each February 28, May 28, August 28 and November 28, to record holders as of the date fixed by the Board or a duly authorized Board committee that is a date not more than 30 nor less than 10 days preceding the applicable payment date. The amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a New York business day and a London business day (each as defined in the certificate of designations for the Series 4 Preferred Stock), then that dividend payment will be made on the next succeeding day that is both a New York business day and a London business day (unless that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding day that is both a New York business day and a London business day).

As long as shares of Series 4 Preferred Stock remain outstanding, generally the Company cannot declare or pay cash dividends or distributions on or redeem, purchase or acquire any shares of Common Stock or other capital stock ranking junior to the Series 4 Preferred Stock unless full dividends on all outstanding shares of Series 4 Preferred Stock have been declared, paid or set aside for payment for the immediately preceding dividend period. The Company cannot declare or pay cash dividends or

distributions on or redeem, purchase or acquire capital stock ranking equally with the Series 4 Preferred Stock for any period unless for such dividend period full dividends on all outstanding shares of Series 4 Preferred Stock for the immediately preceding dividend period have been declared, paid or set aside for payment. When dividends are not paid in full upon the shares of the Series 4 Preferred Stock and any capital stock ranking equally with the Series 4 Preferred Stock, all dividends declared upon shares of the Series 4 Preferred Stock and all shares of capital stock ranking equally with the Series 4 Preferred Stock shall be declared pro rata so that the amount of dividends declared per share on the Series 4 Preferred Stock and all such other of the Company's stock shall in all cases bear to each other the same ratio that accrued dividends per share on the shares of the Series 4 Preferred Stock and all such other stock bear to each other.

Voting Rights. Holders of Series 4 Preferred Stock do not have voting rights, except as provided herein and as specifically required by law. Holders of Series 4 Preferred Stock shall be entitled to vote on all matters submitted to a vote of the holders of Common Stock, voting together with the holders of Common Stock as one class, and each share of Series 4 Preferred Stock shall be entitled to 150 votes. If any quarterly dividend payable on the Series 4 Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series 4 Preferred Stock will be entitled to vote as a class, together with the holders of all series of preferred stock ranking equally with the Series 4 Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series 4 Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors; each share of Series 4 Preferred Stock shall be entitled to three votes for the election of such Preferred Stock Directors. When the Company has paid full dividends on the Series 4 Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate.

As long as the Series 4 Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least two-thirds of the shares of Series 4 Preferred Stock, outstanding at the time (voting as a class with all other series of preferred stock ranking equally with the Series 4 Preferred Stock), shall be necessary to permit, effect, or validate (i) the authorization, creation, or issuance, or any increase in the authorized or issued amount, of any class or series of stock ranking prior to the Series 4 Preferred Stock or (ii) the amendment, alteration, or repeal, whether by merger, consolidation, or otherwise, of any of the provisions of the Restated Certificate of Incorporation or of the resolutions set forth in a certificate of designations for the Series 4 Preferred Stock, which would adversely affect any right, preference, or privilege or voting power of the Series 4 Preferred Stock, or of the holders thereof.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series 4 Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of its capital stock ranking junior to the Series 4 Preferred Stock, a liquidating distribution in the amount of the liquidation preference of \$30,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series 4 Preferred Stock, in whole or in part, at its option, at the redemption price equal to \$30,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends. Holders of the Series 4 Preferred Stock do not have any optional redemption rights.

Series 5 Preferred Stock

Listing. Depositary shares representing fractional interests in a share of Series 5 Preferred Stock are listed on the NYSE under the symbol “BML PrL”. See “Description of Depositary Shares” below.

Preferential Rights. The Series 5 Preferred Stock ranks senior to the Common Stock and equally with the Series B Preferred Stock, Series E Preferred Stock, Series F Preferred Stock, Series G Preferred Stock, Series K Preferred Stock, Series L Preferred Stock, Series T Preferred Stock, Series U Preferred Stock, Series X Preferred Stock, Series Y Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series CC Preferred Stock, Series DD Preferred Stock, Series EE Preferred Stock, Series FF Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series JJ Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, and Series 4 Preferred Stock as to dividends and distributions on the Company’s liquidation, dissolution, or winding up. Shares of the Series 5 Preferred Stock are not convertible into or exchangeable for any shares of Common Stock or any other class of the Company’s capital stock. Holders of the Series 5 Preferred Stock do not have any preemptive rights, and the Series 5 Preferred Stock is not subject to the operation of any sinking fund. The Company may issue stock with preferences equal to the Series 5 Preferred Stock without the consent of the holders of the Series 5 Preferred Stock.

Dividends. Holders of the Series 5 Preferred Stock are entitled to receive non-cumulative cash dividends, when, as, and if declared by the Board or a duly authorized committee the Board out of funds legally available for payment, on the liquidation preference of \$30,000 per share at an annual floating rate per share equal to the greater of (a) three-month LIBOR, plus a spread of 0.50% and (b) 4.00%, payable quarterly in arrears, if declared, on each February 21, May 21, August 21 and November 21, to record holders as of the date fixed by the Board or a duly authorized Board committee that is a date not more than 30 nor less than 10 days preceding the applicable payment date. The amount of dividends payable shall be computed on the basis of a 360-day year and the actual number of days elapsed in the dividend period. If any dividend payment date is not a New York business day and a London business day (each as defined in the certificate of designations for the Series 5 Preferred Stock), then that dividend payment will be made on the next succeeding day that is both a New York business day and a London business day (unless that day falls in the next calendar month, in which each such case payment will occur on the immediately preceding day that is both a New York business day and a London business day).

As long as shares of Series 5 Preferred Stock remain outstanding, the Company cannot declare or pay cash dividends or distributions on or redeem, purchase or acquire any shares of Common Stock or other capital stock ranking junior to the Series 5 Preferred Stock unless full dividends on all outstanding shares of Series 5 Preferred Stock have been declared, paid or set aside for payment for the immediately preceding dividend period. The Company cannot declare or pay cash dividends or distributions on or redeem, purchase or acquire capital stock ranking equally with the Series 5 Preferred Stock for any period unless for such dividend period full dividends on all outstanding shares of Series 5 Preferred Stock for the immediately preceding dividend period have been declared, paid or set aside for payment. When dividends are not paid in full upon the shares of the Series 5 Preferred Stock and any capital stock ranking equally with the Series 5 Preferred Stock, all dividends declared upon shares of the Series 5 Preferred Stock and all shares of capital stock ranking equally with the Series 5 Preferred Stock shall be declared pro rata so that the amount of dividends declared per share on the Series 5 Preferred Stock, and all such other of the Company’s stock shall in all cases bear to each other the same ratio that accrued dividends per share on the shares of the Series 5 Preferred Stock and all such other stock bear to each other.

Voting Rights. Holders of Series 5 Preferred Stock do not have voting rights, except as provided herein and as specifically required by law. Holders of Series 5 Preferred Stock shall be entitled to vote on

all matters submitted to a vote of the holders of Common Stock, voting together with the holders of Common Stock as one class, and each share of Series 5 Preferred Stock shall be entitled to 150 votes. If any quarterly dividend payable on the Series 5 Preferred Stock is in arrears for six or more quarterly dividend periods, whether or not for consecutive dividend periods, the holders of the Series 5 Preferred Stock will be entitled to vote as a class, together with the holders of all series of preferred stock ranking equally with the Series 5 Preferred Stock as to the payment of dividends and upon which voting rights equivalent to those granted to the holders of Series 5 Preferred Stock have been conferred and are exercisable, for the election of two Preferred Stock Directors; each share of Series 5 Preferred Stock shall be entitled to three votes for the election of such Preferred Stock Directors. When the Company has paid full dividends on the Series 5 Preferred Stock for at least four quarterly dividend periods following a dividend arrearage described above, these voting rights will terminate.

As long as the Series 5 Preferred Stock remains outstanding, the affirmative vote or consent of the holders of at least two-thirds of the shares of Series 5 Preferred Stock, outstanding at the time (voting as a class with all other series of preferred stock ranking equally with the Series 5 Preferred Stock), shall be necessary to permit, effect, or validate (i) the authorization, creation, or issuance, or any increase in the authorized or issued amount, of any class or series of stock ranking prior to the Series 5 Preferred Stock or (ii) the amendment, alteration, or repeal, whether by merger, consolidation, or otherwise, of any of the provisions of the Restated Certificate of Incorporation or of the resolutions set forth in a certificate of designations for the Series 5 Preferred Stock, which would adversely affect any right, preference, or privilege or voting power of the Series 5 Preferred Stock, or of the holders thereof.

Distributions. In the event of the Company's voluntary or involuntary liquidation, dissolution, or winding up, holders of Series 5 Preferred Stock will be entitled to receive out of assets legally available for distribution to stockholders, before any distribution or payment out of its assets may be made to or set aside for the holders of the Company's capital stock ranking junior to the Series 5 Preferred Stock, a liquidating distribution in the amount of the liquidation preference of \$30,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends, to the date of liquidation.

Redemption. The Company may redeem the Series 5 Preferred Stock, in whole or in part, at its option, at the redemption price equal to \$30,000 per share, plus any declared and unpaid dividends, without accumulation of any undeclared dividends. Holders of the Series 5 Preferred Stock do not have any optional redemption rights.

DESCRIPTION OF DEPOSITARY SHARES

Each outstanding share of the Series E Preferred Stock, Series Y Preferred Stock, Series CC Preferred Stock, Series EE Preferred Stock, Series GG Preferred Stock, Series HH Preferred Stock, Series KK Preferred Stock, Series LL Preferred Stock, Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock and Series 5 Preferred Stock is represented by depositary shares that are registered under Section 12(b) of the Exchange Act and listed on the NYSE. In addition, each of the Series U Preferred Stock, Series X Preferred Stock, Series Z Preferred Stock, Series AA Preferred Stock, Series DD Preferred Stock, Series FF Preferred Stock and Series JJ Preferred Stock is represented by depositary shares that are not listed. This section describes the certain provisions of all of Company's depositary shares outstanding as of December 31, 2019.

General

The Company has deposited the shares of preferred stock of each series of preferred stock represented by depositary shares under respective deposit agreements: (a) in the case of all such series of preferred stock *other than* the Series 1 Preferred Stock, the Series 2 Preferred Stock, the Series 4 Preferred Stock and the Series 5 Preferred Stock (such other series of preferred stock collectively referred to as "**Legacy Bank of America Preferred Stock**"), between the Company and each of Computershare Inc. and its wholly owned subsidiary Computershare Trust Company, N.A. (collectively acting as depository) and the holders from time to time of the depositary receipts issued thereunder and evidencing such depositary shares; and (b) in the case of the Series 1 Preferred Stock, Series 2 Preferred Stock, Series 4 Preferred Stock and Series 5 Preferred Stock (referred to collectively as the "**Legacy ML Preferred Stock**"), between the Company (as successor by merger to Merrill Lynch & Co., Inc.) and The Bank of New York Mellon (as successor to JPMorgan Chase Bank, N.A. or The Bank of New York, N.A., as applicable), acting as depository, and the holders from time to time of the depositary receipts issued thereunder and evidencing such depositary shares, as amended pursuant to the assignment, assumption and amendment agreement among the Company, Merrill Lynch & Co., Inc. and The Bank of New York Mellon. The respective deposit agreements are included as exhibits to the Company's Current Reports on Form 8-K filed with the Securities and Exchange Commission ("**SEC**") on November 6, 2006 (Series E Preferred Stock), May 29, 2013 (Series U Preferred Stock), September 5, 2014 (Series X Preferred Stock), October 23, 2014 (Series Z Preferred Stock), March 17, 2015 (Series AA Preferred Stock), March 10, 2016 (Series DD Preferred Stock), March 15, 2018 (Series FF Preferred Stock), and June 20, 2019 (Series JJ Preferred Stock), or its Registration Statements on Form 8-A filed with the SEC on January 2, 2009 (Legacy ML Preferred Stock), January 26, 2015 (Series Y Preferred Stock), January 29, 2016 (Series CC Preferred Stock), April 25, 2016 (Series EE Preferred Stock), May 16, 2018 (Series GG Preferred Stock), July 24, 2018 (Series HH Preferred Stock), June 25, 2019 (Series KK Preferred Stock) and September 17, 2019 (Series LL Preferred Stock).

With respect to each series of Legacy Bank of America Preferred Stock represented by depositary shares listed on the NYSE (the "**Listed Legacy Bank of America Depositary Shares**"), each depositary share represents a 1/1,000th interest in a share of the related series of preferred stock. With respect to each series of Legacy Bank of America Preferred Stock represented by depositary shares that are not listed (the "**Unlisted Legacy Bank of America Depositary Shares**"), each depositary share represents a 1/25th interest in a share of the related series of preferred stock. With respect to each series of Legacy ML Preferred Stock, each depositary share represents a 1/1,200th interest in a share of the related series of preferred stock. Subject to the terms of the respective deposit agreements, each holder of a depositary share is entitled, in proportion to the fractional interest of a share of the series of preferred stock represented by the depositary share, to all the rights and preferences of the series of preferred stock being represented, including dividend, voting, redemption, conversion, and liquidation rights.

Withdrawal of Preferred Stock

Unless the depositary shares have been called for redemption, generally a holder of depositary shares may surrender his or her depositary receipts at the principal office of the depositary, pay any charges, and comply with any other terms as provided in the related deposit agreement, and in exchange be entitled to delivery of the number of whole shares of preferred stock underlying the depositary shares. However, generally holders of whole shares of the relevant series of preferred stock are not entitled to deposit those shares under the applicable deposit agreement or to receive depositary receipts for those shares after the withdrawal. If the depositary shares surrendered by the holder in connection with the withdrawal exceed the number of depositary shares that represent the number of whole shares of preferred stock to be withdrawn, the depositary will deliver to the holder at the same time a new depositary receipt evidencing the excess number of depositary shares.

Dividends and Other Distributions

Each dividend on a Listed Legacy Bank of America Depositary Share will be in an amount equal to $1/1,000^{\text{th}}$ of the dividend declared on a share of the relevant underlying series of preferred stock. Each dividend on an Unlisted Legacy Bank of America Depositary Share will be in an amount equal to $1/25^{\text{th}}$ of the dividend declared on a share of the relevant underlying series of preferred stock. Each dividend on a Legacy ML Depositary Share will be in an amount equal to $1/1,200^{\text{th}}$ of the dividend declared on a share of the relevant underlying series of preferred stock. In each case, the depositary will distribute all cash dividends or other cash distributions received in respect of the relevant underlying series of preferred stock to the record holders of depositary shares relating to that preferred stock in proportion to the number of depositary shares owned by those holders. If there is a distribution other than in cash, the depositary will distribute property received by it to the record holders of the depositary shares who are entitled to that property, in proportion to the number of depositary shares held by each holder. However, if the depositary determines that it is not feasible to make this distribution of property, the depositary, with the Company's approval, may sell that property and distribute the net proceeds to the holders of the depositary shares.

Generally, in the case of each series of Legacy Bank of America Preferred Stock, if the calculation of a dividend or other cash distribution results in an amount that is a fraction of a cent and that fraction is equal to or greater than \$0.005, the depositary will round that amount up to the next highest whole cent and will request that the Company pay the resulting additional amount to the depositary for the relevant dividend or other cash distribution. If the fractional amount is less than \$0.005, the depositary will disregard that fractional amount.

In the case of each series of Legacy ML Preferred Stock, the depositary will not distribute any fraction of a cent and will instead retain any balance not so distributed, which shall be held by the depositary and treated as part of the next sum received by the depositary for distribution the holders.

Record dates for the payment of dividends and other matters relating to depositary shares will be the same as the corresponding record dates for the related series of preferred stock.

The amount paid as dividends or otherwise distributable by the depositary with respect to depositary shares or the relevant underlying series of preferred stock will be reduced by any amounts required to be withheld by the Company or the depositary on account of taxes or other governmental charges. The depositary may refuse to make any payment or distribution, or to effect any transfer, exchange, or withdrawal of any depositary shares or the shares of the related series of preferred stock, until such taxes or other governmental charges are paid.

Redemption of Depositary Shares

If a series of preferred stock that relates to depositary shares is redeemed, the related depositary shares will be redeemed with the proceeds received by the depository from the redemption, in whole or in part, of that underlying series of preferred stock. Generally, the depository will mail notice of redemption at least 30 (15 in the case of the Series 4 Preferred Stock and Series 5 Preferred Stock) and not more than 60 calendar days before the redemption date to the record holders of the depositary shares to be redeemed at their addresses appearing in the depository's books. With respect to (i) the Listed Legacy Bank of America Depositary Shares, the redemption price per depositary share will be equal to 1/1,000th of the redemption price per share payable with respect to the relevant underlying series of preferred stock, (ii) the Unlisted Legacy Bank of America Depositary Shares, the redemption price per depositary share will be equal to 1/25th of the redemption price per share payable with respect to the relevant underlying series of preferred stock, and (iii) the Legacy ML Depositary Shares, the redemption price per depositary share will be equal to 1/1,200th of the redemption price per share payable with respect to the relevant underlying series of preferred stock.

Whenever the Company redeems shares of a series of preferred stock held by the depository under a deposit agreement, the depository will redeem as of the same redemption date the number of related depositary shares representing the shares of preferred stock that are redeemed. If less than all of the depositary shares are redeemed, the depositary shares to be redeemed generally will be selected by lot or pro rata.

After the date fixed for redemption, the depositary shares called for redemption will no longer be deemed to be outstanding. At that time, all rights of the holder of the depositary shares will cease, except the right to receive any money or other property they become entitled to receive upon surrender to the depository of the depositary receipts.

Voting the Deposited Preferred Stock

Holders of depositary receipts are entitled to a fraction of a vote per depositary share (1/1,000th in the case of the Listed Legacy Bank of America Depositary Shares, 1/25th in the case of the Unlisted Legacy Bank of America Depositary Shares, and 1/1,200th in the case of the Legacy ML Depositary Shares) under those limited circumstances in which holders of the relevant underlying series of preferred stock are entitled to a vote. When the depository receives notice of any meeting at which holders of a series of preferred stock held by the depository are entitled to vote, the depository will mail the information contained in the notice to the record holders of the related depositary shares. Each record holder of depositary shares on the record date, which will be the same date as the record date for the related series of preferred stock, will be entitled to instruct the depository as to the exercise of the voting rights pertaining to the amount of preferred stock underlying the holder's depositary shares. The depository will endeavor, insofar as practicable, to vote the amount of preferred stock underlying the depositary shares in accordance with these instructions. The Company will agree to take all action that may be deemed necessary by the depository to enable the depository to do so. The depository will not vote any shares of preferred stock except to the extent it receives specific instructions from the holders of depositary shares representing that number of shares of the related preferred stock (provided that with respect to the Series E Preferred Stock, the depository will vote the stock represented by such depositary shares proportionately with votes cast pursuant to instructions received from the other holders).

Amendment and Termination of a Deposit Agreement

The form of depositary receipt evidencing depositary shares and any provision of the related deposit agreement may be amended by agreement between the Company and the depository. However, any amendment that materially and adversely alters the rights of the existing holders of depositary shares will not be effective unless the amendment has been approved by the record holders of at least a majority (or, with respect to the Legacy ML Depositary Shares, in the case of amendments relating to or affecting rights to receive dividends or distributions, or voting or redemption rights, two-thirds) of the depositary shares then outstanding. Either the Company or the depository may terminate a deposit agreement if all of the outstanding depositary shares have been redeemed or if there has been a final distribution in respect of the related preferred stock in connection with the Company's liquidation, dissolution, or winding up or, with respect to the Legacy ML Depositary Shares, upon the consent of holders of depositary receipts representing not less than two-thirds of the depositary shares then outstanding.

Charges of Depository

The Company will pay all transfer and other taxes, assessments and governmental charges arising solely from the existence of a depository arrangement. The Company will pay the fees of the depository in connection with the initial deposit of the underlying series of preferred stock and any redemption of such preferred stock. Holders of depositary receipts will pay transfer and other taxes, assessments and governmental charges and any other charges as are expressly provided in the related deposit agreement to be for their accounts. The depository may refuse to make any payment or distribution on, or effect any transfer of a depositary receipt or any withdrawals of preferred stock evidenced by, a depositary receipt until all taxes, assessments, and governmental charges with respect to the depositary receipt or preferred stock are paid by their holders.

Miscellaneous

The depository will forward to the record holders of depositary shares all of the Company's reports and communications that are delivered to the depository and which the Company is required to furnish to the holders of its preferred stock or depositary shares.

Neither the Company nor the depository will be liable if the Company is prevented or delayed by law or any circumstance beyond its control in performing its obligations under a deposit agreement. All of the Company's obligations as well as the depository's obligations under each deposit agreement are limited to performance of its respective duties set forth in the deposit agreement and neither the Company nor the depository will be obligated to prosecute or defend any legal proceeding relating to any depositary shares or preferred stock unless provided with satisfactory indemnity. The Company, and the depository, may rely on written advice of counsel or accountants, or information provided by persons presenting preferred stock for deposit, holders of depositary shares, or other persons believed to be competent and on documents believed to be genuine.

Resignation and Removal of Depository

The depository may resign at any time by delivering to the Company notice of its election to do so, and the Company may remove the depository at any time. Any resignation or removal will take effect only upon the appointment of a successor depository and the successor depository's acceptance of the appointment. Any successor depository must be a U.S. bank or trust company.

DESCRIPTION OF FLOATING RATE PREFERRED HYBRID INCOME TERM SECURITIES OF BAC CAPITAL TRUST XIII (AND THE GUARANTEE OF THE REGISTRANT RELATED THERETO)

This section describes the Floating Rate Preferred Hybrid Income Term Securities of BAC Capital Trust XIII (the “**Trust XIII HITS**”) and the Company’s guarantee related thereto. The Trust XIII HITS are listed on the NYSE under the symbol “BAC/PF”.

General

The Trust XIII HITS are a class of preferred beneficial interests in BAC Capital Trust XIII, a Delaware statutory trust (“**Trust XIII**”), and are issued pursuant to the Amended and Restated Declaration of Trust of BAC Capital Trust XIII (the “**Trust XIII Declaration of Trust**”) dated as of February 16, 2007 among the Company, as sponsor, The Bank of New York Mellon (formerly known as The Bank of New York), as property trustee, BNY Mellon Trust of Delaware (formerly known as The Bank of New York (Delaware)), as Delaware trustee, the regular trustees named therein and the holders of the trust securities. The terms of the Trust XIII HITS include those stated in the Trust XIII Declaration of Trust, any amendments thereto, and those made a part of the Trust XIII Declaration of Trust by the Trust Indenture Act of 1939 (the “**Trust Indenture Act**”) and the Delaware Statutory Trust Act. The Trust XIII Declaration of Trust is included as an exhibit to the Company’s Current Report on Form 8-K filed with the SEC on February 16, 2007. As of December 31, 2019, 140,922 Trust XIII HITS (having an aggregate liquidation amount of approximately \$140.9 million) were outstanding.

The common securities of Trust XIII (“**Trust XIII Common Securities**”) are held directly or indirectly by the Company. The Trust XIII Common Securities rank on a parity, and payments upon redemption, liquidation or otherwise will be made on a proportionate basis, with the Trust XIII HITS, except as set forth below in “-Ranking of Trust XIII Common Securities”. The Trust XIII Declaration of Trust does not permit Trust XIII to issue any securities other than the Trust XIII Common Securities and the Trust XIII HITS or to incur any indebtedness.

The assets of Trust XIII consist of shares of the Company’s Floating Rate Non-Cumulative Preferred Stock, Series F (the “**Series F Preferred Stock**”), which Trust XIII owns for the benefit of the holders of its Trust XIII HITS and Trust XIII Common Securities (together, the “**Trust XIII securities**”). Each Trust XIII HITS has a liquidation amount of \$1,000 and represents a beneficial interest in Trust XIII that corresponds to 1/100th of a share of Series F Preferred Stock. Because Trust XIII is a pass-through vehicle, Trust XIII will distribute to holders of the Trust XIII securities the dividends that it receives on the Series F Preferred Stock. For a description of the terms of the Series F Preferred Stock, see “Description of Preferred Stock - Series F Preferred Stock” above.

Trust XIII’s business and affairs are conducted by its trustees, each appointed by the Company as sponsor of Trust XIII.

The Trust XIII HITS are issued in registered book-entry only form and are held in the name of The Depository Trust Company (“**DTC**”) or its nominee.

Distributions

Trust XIII must make distributions on the Trust XIII HITS on relevant distribution dates to the extent that it has funds available therefor. The distribution dates for the Trust XIII HITS are March 15, June 15, September 15 and December 15 of each year. A distribution period is each period beginning on a

distribution date and continuing to, but not including, the next succeeding distribution date. When a distribution date is not a business day (as defined in the Trust XIII Declaration of Trust), Trust XIII will make the distribution on the next business day without interest. Distributions are calculated on the basis of a 360-day year and the number of days actually elapsed in a distribution period.

Holders of Trust XIII HITS will be entitled to receive distributions corresponding to dividends on the Series F Preferred Stock. These non-cumulative cash dividends will be payable in arrears if, as and when declared by the Board (or a committee of the Board) on the quarterly dividend payment dates, which are each March 15, June 15, September 15 and December 15 (or if such day is not a business day, the next business day). For additional information about dividends on the Series F Preferred Stock, see “Description of Preferred Stock - Series F Preferred Stock” above.

Trust XIII will make distributions on the Trust XIII HITS only to the extent it has received dividends on the Series F Preferred Stock.

Distributions on the Trust XIII HITS will be payable to the holders as they appear in the security register of Trust XIII on the relevant record dates. The record date will be the last day of the month immediately preceding the month in which the relevant distribution date falls.

Mandatory Redemption of Trust XIII HITS upon Redemption of Series F Preferred Stock

The Trust XIII HITS have no stated maturity but must be redeemed on the date the Company redeems the Series F Preferred Stock, and the property trustee or paying agent will apply the proceeds from such repayment or redemption to redeem a like amount, as defined below, of the Trust XIII HITS. The Series F Preferred Stock is perpetual but the Company generally may redeem it at any time. The redemption price per Trust XIII HITS will equal the liquidation amount per Trust XIII HITS plus accumulated and unpaid distributions to, but excluding, the redemption date.

If less than all of the shares of Series F Preferred Stock held by Trust XIII are to be redeemed on a redemption date, then the proceeds from such redemption will be allocated pro rata to the redemption of the Trust XIII HITS and the Trust XIII Common Securities, except as set forth below under “- Ranking of Trust XIII Common Securities.”

The term “*like amount*” as used above means Trust XIII HITS having a liquidation amount equal to that portion of the liquidation amount of the Series F Preferred Stock to be contemporaneously redeemed, the proceeds of which will be used to pay the redemption price of such Trust XIII HITS.

Redemption Procedures. Notice of any redemption will be mailed at least 15 days but not more than 60 days before the redemption date to the registered address of each holder of Trust XIII HITS to be redeemed.

If (1) Trust XIII gives an irrevocable notice of redemption of Trust XIII HITS for cash and (2) the Company has paid to the property trustee a sufficient amount of cash in connection with the related redemption of the Series F Preferred Stock, then on the redemption date, the property trustee will irrevocably deposit with DTC funds sufficient to pay the redemption price for the Trust XIII HITS being redeemed. Trust XIII will also give DTC irrevocable instructions and authority to pay the redemption amount in immediately available funds to the beneficial owners of the Trust XIII HITS. Distributions to be paid on or before the redemption date for any Trust XIII HITS called for redemption will be payable to the holders as of the record dates for the related dates of distribution. If the Trust XIII HITS called for redemption are no longer in book-entry form, the property trustee, to the extent funds are available, will

irrevocably deposit with the paying agent for the Trust XIII HITS funds sufficient to pay the applicable redemption price and will give such paying agent irrevocable instructions and authority to pay the redemption price to the holders thereof upon surrender of their certificates evidencing the Trust XIII HITS.

If notice of redemption shall have been given and funds deposited as required, then upon the date of such deposit:

- all rights of the holders of such Trust XIII HITS called for redemption will cease, except the right of the holders of such Trust XIII HITS to receive the redemption price and any distribution payable in respect of the Trust XIII HITS on or prior to the redemption date, but without interest on such redemption price; and
- the Trust XIII HITS called for redemption will cease to be outstanding.

If any redemption date is not a business day, then the redemption amount will be payable on the next business day (and without any interest or other payment in respect of any such delay). However, if payment on the next business day causes payment of the redemption amount to be in the next calendar month, then payment will be on the preceding business day.

If payment of the redemption amount for any shares of Series F Preferred Stock called for redemption is improperly withheld or refused and accordingly the redemption amount of the Trust XIII HITS is not paid either by Trust XIII or by the Company under the Trust XIII Guarantee (as defined below), then dividends on the Series F Preferred Stock will continue to accrue and distributions on such Trust XIII HITS called for redemption will continue to accumulate at the applicable rate then borne by such Trust XIII HITS from the original redemption date scheduled to the actual date of payment. In this case, the actual payment date will be considered the redemption date for purposes of calculating the redemption amount.

If less than all of the outstanding shares of Series F Preferred Stock are to be redeemed on a redemption date, then the aggregate liquidation amount of Trust XIII HITS and Trust XIII Common Securities to be redeemed shall be allocated *pro rata* to the Trust XIII HITS and Trust XIII Common Securities based upon the relative liquidation amounts of such classes, except as set forth below under “- Ranking of Trust XIII Common Securities.” The property trustee will select the particular Trust XIII HITS to be redeemed on a *pro rata* basis not more than 60 days before the redemption date from the outstanding Trust XIII HITS not previously called for redemption by any method the property trustee deems fair and appropriate, or, if the Trust XIII HITS are in book-entry only form, in accordance with the procedures of DTC. The property trustee shall promptly notify the transfer agent in writing of the Trust XIII HITS selected for redemption and, in the case of any Trust XIII HITS selected for redemption in part, the liquidation amount to be redeemed.

For all purposes of the Trust XIII Declaration of Trust, unless the context otherwise requires, all provisions relating to the redemption of Trust XIII HITS shall relate, in the case of any Trust XIII HITS redeemed or to be redeemed only in part, to the portion of the aggregate liquidation amount of Trust XIII HITS that has been or is to be redeemed. If less than all of the Trust XIII HITS are redeemed, the Trust XIII HITS held through the facilities of DTC will be redeemed *pro rata* in accordance with DTC’s internal procedures.

The holders of the Trust XIII HITS do not have any optional redemption rights.

Company Guarantee of Trust XIII HITS

The Company has irrevocably guaranteed (the “**Trust XIII Guarantee**”), on a junior subordinated basis, the payment in full of any accumulated and unpaid distributions required to be paid on the Trust XIII HITS and the redemption price for any Trust XIII HITS called for redemption, in each case to the extent Trust XIII has funds available to make the payment, as well as upon a voluntary or involuntary dissolution, winding-up or liquidation of Trust XIII (other than in connection with a distribution of corresponding assets to the holders of the Trust XIII HITS), the lesser of (i) the aggregate of the liquidation amount and all accumulated and unpaid distributions on the Trust XIII HITS to the date of payment to the extent Trust XIII has funds available to make the payment, and (ii) the amount of assets of Trust XIII remaining available for distribution to holders of Trust XIII HITS upon liquidation of Trust XIII. The Trust XIII Guarantee is a guarantee of payment and not of collection.

The Trust XIII Guarantee may be amended only with the prior approval of the holders of not less than a majority in aggregate liquidation amount of the outstanding Trust XIII HITS. No vote will be required, however, for any changes that do not adversely affect the rights of the holders of the Trust XIII HITS in any material respect.

The Company’s obligations under the Trust XIII Guarantee are unsecured, are subordinated to and junior in right of payment to all of the Company’s secured and senior and subordinated indebtedness, and rank on a parity with all other similar guarantees issued by the Company.

The Trust XIII HITS and the Trust XIII Guarantee do not limit the Company’s ability or the ability of its subsidiaries to incur additional indebtedness, including indebtedness that ranks senior to or equally with the Trust XIII Guarantee.

The Trust XIII Guarantee, when taken together with the Company’s obligations under the Trust XIII Declaration of Trust, including the obligations to pay costs, expenses, debts and liabilities of Trust XIII, other than liabilities with respect to the Trust XIII securities, has the effect of providing a full and unconditional guarantee on an unsecured and junior subordinated basis of amounts due on the Trust XIII HITS.

The HITS Guarantee Agreement dated as of February 16, 2007 between the Company, as guarantor, and The Bank of New York Mellon (formerly known as The Bank of New York), as guarantee trustee, related to the Trust XIII HITS, is included as an exhibit to the Company’s Current Report on Form 8-K filed with the SEC on February 16, 2007.

Liquidation Distribution upon Dissolution

The Company can at any time dissolve and liquidate Trust XIII. Pursuant to the Trust XIII Declaration of Trust, Trust XIII shall dissolve on the first to occur of:

- upon the Company’s bankruptcy, dissolution or liquidation;
- upon the filing of a certificate of dissolution or its equivalent with respect to the Company;
- upon the consent of the holders of at least a majority in aggregate liquidation amount of Trust XIII securities voting together as a single class to dissolve Trust XIII;

- upon the revocation of the Company's charter and the expiration of 90 days after the date of revocation without a reinstatement thereof;
- at the Company's election at any time pursuant to which Trust XIII has been dissolved in accordance with the terms of the Trust XIII securities and upon the distribution of the assets of Trust XIII corresponding to its securities to the holders of Trust XIII securities;
- upon the entry of a decree of judicial dissolution of the holder of the Trust XIII Common Securities, the Company or Trust XIII; or
- upon the redemption of all of the Trust XIII HITS.

Except as set forth in the next paragraph, if an early dissolution occurs as a result of certain events of the Company's bankruptcy, dissolution or liquidation, or if an early dissolution occurs as a result of the entry of an order for the dissolution of Trust XIII by a court of competent jurisdiction, the property trustee and the regular trustees will liquidate Trust XIII as expeditiously as they determine possible by distributing, after satisfaction of liabilities to creditors of Trust XIII as provided by applicable law, to each holder of Trust XIII HITS a like amount of corresponding assets as of the date of such distribution. Trust XIII shall give notice of liquidation to each holder of Trust XIII HITS at least 15 days and not more than 60 days before the date of liquidation.

If, whether because of an order for dissolution entered by a court of competent jurisdiction or otherwise, the property trustee determines that distribution of the corresponding assets in the manner provided above is not practical, or if the early dissolution occurs as a result of the redemption of all the Trust XIII HITS, the property trustee and the regular trustees shall liquidate the property of Trust XIII and wind up its affairs in such manner as they determine. In that case, upon the winding-up of Trust XIII, except with respect to an early dissolution that occurs as a result of the redemption of all the Trust XIII HITS, the holders of the Trust XIII securities will be entitled to receive out of the assets of Trust XIII available for distribution to holders and after satisfaction of liabilities to creditors of Trust XIII as provided by applicable law, an amount equal to the liquidation amount per Trust XIII security plus accumulated and unpaid distributions to the date of payment. If, upon any such winding-up, Trust XIII has insufficient assets available to pay in full such aggregate liquidation distribution, then the amounts payable directly by Trust XIII on the Trust XIII securities shall be paid on a pro rata basis, except as set forth below under "- Ranking of Trust XIII Common Securities."

The term "*like amount*" as used above means, with respect to a distribution of Series F Preferred Stock to holders of Trust XIII securities in connection with a dissolution or liquidation of Trust XIII therefor, Series F Preferred Stock having a liquidation preference equal to the liquidation amount of the Trust XIII securities of the holder to whom such Series F Preferred Stock would be distributed.

Distribution of Trust Assets

Upon liquidation of Trust XIII other than as a result of an early dissolution upon the redemption of all the Trust XIII HITS and after satisfaction of the liabilities of creditors of Trust XIII as provided by applicable law, the assets of Trust XIII will be distributed to the holders of the Trust XIII securities in exchange therefor.

After the liquidation date fixed for any distribution of assets of Trust XIII:

- the Trust XIII HITS will no longer be deemed to be outstanding;

- if the assets to be distributed are shares of Series F Preferred Stock, DTC or its nominee, as the record holder of the Trust XIII HITS, will receive a registered global certificate or certificates representing the shares of Series F Preferred Stock to be delivered upon such distribution;
- any certificates representing the Trust XIII HITS not held by DTC or its nominee or surrendered to the exchange agent will be deemed to represent shares of Series F Preferred Stock having a liquidation preference equal to the Trust XIII HITS until such certificates are so surrendered for transfer and reissuance; and
- all rights of the holders of the Trust XIII HITS will cease, except the right to receive Series F Preferred Stock upon such surrender.

As each Trust XIII HITS corresponds to 1/100th of a share of Series F Preferred Stock, holders of Trust XIII HITS may receive fractional shares of Series F Preferred Stock or depositary shares representing the Series F Preferred Stock upon this distribution. Since holders of the Series F Preferred Stock are not entitled to vote for the election of directors in the event the Company does not pay full dividends for six quarterly dividend periods, the Series F Preferred Stock (or depositary shares representing the Series F Preferred Stock) would not qualify for listing on the NYSE under its current rules.

Ranking of Trust XIII Common Securities

If on any distribution date Trust XIII does not have funds available from payments of dividends on the Series F Preferred Stock to make full distributions on the Trust XIII HITS and the Trust XIII Common Securities, then, if the deficiency in funds results from the Company's failure to pay a full dividend on shares of Series F Preferred Stock on a dividend payment date, then the available funds from dividends on the Series F Preferred Stock will be applied first to make distributions then due on the Trust XIII HITS on a pro rata basis on such distribution date up to the amount of such distributions corresponding to dividends on the Series F Preferred Stock (or, if less, the amount of the corresponding distributions that would have been made on the Trust XIII HITS had the Company paid a full dividend on the Series F Preferred Stock) before any such amount is applied to make a distribution on Trust XIII Common Securities on such distribution date.

If, on any date where Trust XIII HITS and Trust XIII Common Securities must be redeemed because the Company is redeeming Series F Preferred Stock, Trust XIII does not have funds available from the Company's redemption of shares of Series F Preferred Stock to pay the full redemption price then due on all of the outstanding Trust XIII HITS and Trust XIII Common Securities to be redeemed, then (1) the available funds shall be applied first to pay the redemption price on the Trust XIII HITS to be redeemed on such redemption date and (2) Trust XIII Common Securities shall be redeemed only to the extent funds are available for such purpose after the payment of the full redemption price on the Trust XIII HITS to be redeemed.

If an early dissolution event occurs in respect of Trust XIII, no liquidation distributions will be made on the Trust XIII Common Securities until full liquidation distributions have been made on the Trust XIII HITS.

In the case of any event of default under the Trust XIII Declaration of Trust resulting from the Company's failure to comply in any material respect with any of its obligations as issuer of the Series F Preferred Stock, including obligations set forth in the Company's Restated Certificate of Incorporation, or arising under applicable law, the Company, as holder of the Trust XIII Common Securities, will be deemed to have waived any right to act with respect to any such event of default under the Trust XIII Declaration of Trust until the effect of all such events of default with respect to the Trust XIII HITS have been cured, waived or otherwise eliminated. Until all events of default under the Trust XIII Declaration of

Trust have been so cured, waived or otherwise eliminated, the property trustee shall act solely on behalf of the holders of the Trust XIII HITS and not on the Company's behalf, and only the holders of the Trust XIII HITS will have the right to direct the property trustee to act on their behalf.

Events of Default; Notice

Any one of the following events constitutes an event of default under the Trust XIII Declaration of Trust (a “**Trust XIII Event of Default**”) regardless of the reason for such event of default and whether it shall be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or governmental body:

- the Company's failure to comply in any material respect with its obligations as issuer of the Series F Preferred Stock, under the Restated Certificate of Incorporation, or arising under applicable law;
- the default by Trust XIII in the payment of any distribution on any trust security of Trust XIII when such becomes due and payable, and continuation of such default for a period of 30 days;
- the default by Trust XIII in the payment of any redemption price of any trust security of Trust XIII when such becomes due and payable;
- the failure to perform or the breach, in any material respect, of any other covenant or warranty of the trustees in the Trust XIII Declaration of Trust and the continuation of such default or breach for 90 days after the Company and the trustees have received written notice of the failure to perform or breach in the manner specified in such Trust XIII Declaration of Trust; or
- the occurrence of certain events of bankruptcy or insolvency with respect to the property trustee and the Company's failure to appoint a successor property trustee within 90 days.

Within 30 days after any Trust XIII Event of Default actually known to the property trustee occurs, the property trustee will transmit notice of such Trust XIII Event of Default to the holders of the affected class of Trust XIII securities and to the regular trustees, unless such Trust XIII Event of Default shall have been cured or waived. The Company, as sponsor, and the regular trustees are required to file annually with the property trustee a certificate as to whether or not the Company or the regular are in compliance with all the conditions and covenants applicable to the Company and to them under the Trust XIII Declaration of Trust.

Removal of Trustees

The property trustee and/or the Delaware trustee may be removed at any time by the holder of the Trust XIII Common Securities. The property trustee and the Delaware trustee may be removed by the holders of a majority in liquidation amount of the outstanding Trust XIII HITS for cause. In no event will the holders of the Trust XIII HITS have the right to vote to appoint, remove or replace the regular trustees, which voting rights are vested exclusively in the Company, as the holder of the Trust XIII Common Securities. No resignation or removal of a trustee and no appointment of a successor trustee shall be effective until the acceptance of appointment by the successor trustee in accordance with the provisions of the Trust XIII Declaration of Trust.

Co-Trustees and Separate Property Trustee

At any time or from time to time, for the purpose of meeting the legal requirements of the Trust Indenture Act or of any jurisdiction in which any part of Trust XIII property may at the time be located, the Company, as the holder of the Trust XIII Common Securities, and the regular trustees shall have the

power to appoint one or more persons either to act as a co-trustee, jointly with the property trustee, of all or any part of such trust property, or to act as separate trustee of any such property, in either case with such powers as may be provided in the instrument of appointment, and to vest in such person or persons in such capacity any property, title, right or power deemed necessary or desirable, subject to the provisions of such Trust XIII Declaration of Trust.

Mergers, Consolidations, Amalgamations or Replacements of Trust XIII

Trust XIII may not consolidate, amalgamate, or merge with or into, or be replaced by, or convey, transfer, or lease its properties and assets substantially as an entirety, to the Company or any other person, except as described below. Trust XIII may, with the consent of the regular trustees but without the consent of the holders of the applicable Trust XIII securities, the property trustee, or the Delaware trustee, consolidate, amalgamate, or merge with or into, or be replaced by, a trust organized under the laws of any state if:

- the successor entity, if not Trust XIII, either:
 - expressly assumes all of the obligations of Trust XIII with respect to the Trust XIII securities, or
 - substitutes for the Trust XIII securities other securities having substantially the same terms as the Trust XIII securities, so long as the successor securities rank the same as the Trust XIII securities in priority with respect to distributions and payments upon liquidation, redemption, and otherwise;
- the Trust XIII HITS or any successor securities are listed, or any successor securities will be listed upon notification of issuance, on any national or international securities exchange or with another organization, if any, on which the Trust XIII HITS are then listed or quoted;
- the merger, consolidation, amalgamation, or replacement does not cause the Trust XIII HITS, including any successor securities, to be downgraded by any nationally recognized statistical rating organization;
- the merger, consolidation, amalgamation, or replacement does not adversely affect the rights, preferences, and privileges of the holders of Trust XIII securities, including any successor securities, in any material respect, other than in connection with any dilution of the holders' interest in the new entity;
- the successor entity has a purpose identical to that of Trust XIII;
- prior to the merger, consolidation, amalgamation, or replacement, the Company has received an opinion of counsel to Trust XIII to the effect that:
 - the merger, consolidation, amalgamation, or replacement does not adversely affect the rights, preferences, and privileges of the holders of Trust XIII securities, including any successor securities, in any material respect, other than in connection with any dilution of the holders' interest in the new entity;
 - following the merger, consolidation, amalgamation, or replacement, neither Trust XIII nor the successor entity will be required to register as an investment company under the Investment Company Act of 1940, as amended (the "**Investment Company Act**"); and
 - following the merger, consolidation, amalgamation, or replacement, Trust XIII or the successor entity will continue to be classified as a grantor trust for U.S. federal income tax purposes; and
- the Company guarantees the obligations of the successor entity under the successor securities at least to the extent provided by the guarantees of the Trust XIII securities.

Trust XIII may not, except with the consent of holders of 100% in liquidation amount of its Trust XIII securities, consolidate, amalgamate, merge with or into, or be replaced by any other entity or permit any other entity to consolidate, amalgamate, merge with or into, or replace it if that consolidation, merger, amalgamation, or replacement would cause Trust XIII or the successor entity to be classified as other than a grantor trust for U.S. federal income tax purposes.

Voting Rights; Amendment of the Trust XIII Declaration of Trust

Except as provided herein and under “-Company Guarantee of Trust XIII HITS” above and as otherwise required by law and the Trust XIII Declaration of Trust, the holders of the Trust XIII HITS will have no voting rights or control over the administration, operation or management of Trust XIII or the obligations of the parties to the Trust XIII Declaration of Trust, including in respect of Series F Preferred Stock beneficially owned by Trust XIII. Under the Trust XIII Declaration of Trust, however, the property trustee will be required to obtain their consent before exercising some of its rights in respect of these securities.

Trust XIII Declaration of Trust. The Company and the regular trustees may amend the Trust XIII Declaration of Trust without the consent of the holders of the Trust XIII HITS, the property trustee or the Delaware trustee, unless in the case of the first two bullets below such amendment will materially and adversely affect the interests of any holder of Trust XIII HITS or the property trustee or the Delaware trustee, to:

- cure any ambiguity, correct or supplement any provisions in the Trust XIII Declaration of Trust that may be inconsistent with any other provision, or to make any other provisions with respect to matters or questions arising under such Trust XIII Declaration of Trust, which may not be inconsistent with the other provisions of the Trust XIII Declaration of Trust;
- modify, eliminate or add to any provisions of the Trust XIII Declaration of Trust to such extent as shall be necessary to ensure that Trust XIII will be classified for U.S. federal income tax purposes as one or more grantor trusts and/or agency arrangements and not as an association or a publicly traded partnership taxable as a corporation at all times that any Trust XIII securities are outstanding, to ensure that Trust XIII will not be required to register as an “investment company” under the Investment Company Act or to ensure the treatment of Trust XIII HITS as Tier 1 regulatory capital under prevailing Federal Reserve rules and regulations;
- provide that certificates for Trust XIII HITS may be executed by a regular trustee by facsimile signature instead of manual signature, in which case such amendment(s) shall also provide for the appointment by the Company of an authentication agent and certain related provisions;
- require that holders that are not U.S. persons for U.S. federal income tax purposes irrevocably appoint a U.S. person to exercise any voting rights to ensure that Trust XIII will not be treated as a foreign trust for U.S. federal income tax purposes; or
- conform the terms of the Trust XIII Declaration of Trust to the description of the Trust XIII Declaration of Trust, the Trust XIII HITS and the Trust XIII Common Securities in the prospectus supplement relating to the initial offering of the Trust XIII HITS, in the manner provided in the Trust XIII Declaration of Trust.

Any such amendment shall become effective when notice thereof is given to the property trustee, the Delaware Trustee and the holders of the Trust XIII HITS.

The Company and the regular trustees may generally amend the Trust XIII Declaration of Trust with:

- the consent of holders representing not less than a majority, based upon liquidation amounts, of each outstanding class of Trust XIII HITS affected by the amendments; and
- receipt by the trustees of Trust XIII of an opinion of counsel to the effect that such amendment or the exercise of any power granted to the trustees of Trust XIII or the regular trustees in accordance with such amendment will not affect Trust XIII's status as one or more grantor trusts and/or agency arrangements for U.S. federal income tax purposes or affect Trust XIII's exemption from status as an "investment company" under the Investment Company Act.

However, without the consent of each affected holder of Trust securities, the Trust XIII Declaration of Trust may not be amended to:

- change the amount or timing, or otherwise adversely affect the amount, of any distribution required to be made in respect of Trust XIII securities as of a specified date; or
- restrict the right of a holder of Trust XIII securities to institute a suit for the enforcement of any such payment on or after such date.

Series F Preferred Stock. So long as the Series F Preferred Stock is held by the property trustee on behalf of Trust XIII, the trustees of Trust XIII will not waive any default in respect of the Series F Preferred Stock without obtaining the prior approval of the holders of at least a majority in liquidation amount of the Trust XIII HITS then outstanding. The trustees of Trust XIII also shall not consent to any amendment to Trust XIII's or the Company's governing documents that would change the dates on which dividends are payable or the amount of such dividends, without the prior written consent of each holder of Trust XIII HITS. In addition to obtaining the foregoing approvals from holders, the trustees of Trust XIII shall obtain, at the Company's expense, an opinion of counsel to the effect that such action shall not cause Trust XIII to be taxable as a corporation or classified as a partnership for U.S. federal income tax purposes.

General. Any required approval of holders of Trust XIII HITS may be given at a meeting of holders of such class of Trust XIII HITS convened for such purpose or pursuant to written consent. The property trustee will cause a notice of any meeting at which holders of Trust XIII HITS are entitled to vote, or of any matter upon which action by written consent of such holders is to be taken, to be given to each record holder of such Trust XIII HITS in the manner set forth in the Trust XIII Declaration of Trust.

No vote or consent of the holders of Trust XIII HITS will be required for Trust XIII to redeem and cancel the Trust XIII HITS in accordance with the Trust XIII Declaration of Trust.

Notwithstanding that holders of the Trust XIII HITS are entitled to vote or consent under any of the circumstances described above, any of the Trust XIII HITS that are owned by the Company or its affiliates or the trustees or any of their affiliates shall, for purposes of such vote or consent, be treated as if they were not outstanding.

Payment and Paying Agent

Payments on the Trust XIII HITS shall be made to DTC by the paying agent, which shall credit the relevant accounts on the applicable distribution dates. If any Trust XIII HITS are not held by DTC, the paying agent shall make such payments by check mailed to the address of the holder as such address shall appear on the register.

The “paying agent” is The Bank of New York Mellon Trust Company, N.A. (formerly known as The Bank of New York Trust Company, N.A.) and any co-paying agent chosen by the property trustee and acceptable to the Company and to the regular trustees. The paying agent shall be permitted to resign as paying agent upon 30 days written notice to the regular trustees and to the property trustee. In the event that The Bank of New York Mellon Trust Company, N.A. shall no longer be the paying agent, the property trustee will appoint a successor to act as paying agent, which will be a bank or trust company acceptable to the regular trustees and to the Company.

Registrar and Transfer Agent

The Bank of New York Mellon Trust Company, N.A. acts as registrar and transfer agent for the Trust XIII HITS.

Registration of transfers of Trust XIII HITS will be effected without charge by or on behalf of Trust XIII but after payment of any tax or other governmental charges that may be imposed in connection with any transfer or exchange. Neither Trust XIII nor the transfer agent shall be required to register the transfer of or exchange any trust security during a period beginning at the opening of business 15 days before the day of selection for redemption of Trust XIII securities and ending at the close of business on the day of mailing of notice of redemption or to transfer or exchange any trust security so selected for redemption in whole or in part, except, in the case of any trust security to be redeemed in part, any portion thereof not to be redeemed.

Any Trust XIII HITS can be exchanged for other Trust XIII HITS so long as such other Trust XIII HITS are denominated in authorized denominations and have the same aggregate liquidation amount and same terms as the Trust XIII HITS that were surrendered for exchange. The Trust XIII HITS may be presented for registration of transfer, duly endorsed or accompanied by a satisfactory written instrument of transfer, at the office or agency maintained by the Company for that purpose in a place of payment. There will be no service charge for any registration of transfer or exchange of the Trust XIII HITS, but the Company may require holders to pay any tax or other governmental charge payable in connection with a transfer or exchange of the Trust XIII HITS. The Company may at any time rescind the designation or approve a change in the location of any office or agency, in addition to the security registrar, designated by the Company where holders can surrender the Trust XIII HITS for registration of transfer or exchange. However, Trust XIII will be required to maintain an office or agency in each place of payment for the Trust XIII HITS.

Information Concerning the Property Trustee

Other than during the occurrence and continuance of a Trust XIII Event of Default, the property trustee undertakes to perform only the duties that are specifically set forth in the Trust XIII Declaration of Trust. After a Trust XIII Event of Default, the property trustee must exercise the same degree of care and skill as a prudent individual would exercise or use in the conduct of his or her own affairs. Subject to this provision, the property trustee is under no obligation to exercise any of the powers vested in it by the Trust XIII Declaration of Trust at the request of any holder of Trust XIII HITS unless it is offered indemnity satisfactory to it by such holder against the costs, expenses and liabilities that might be incurred. However, the holders of the Trust XIII HITS will not be required to offer any indemnity if those holders, by exercising their voting rights, direct the property trustee to take any action following an event of default under the Trust XIII Declaration of Trust. If no Trust XIII Event of Default has occurred and is continuing and the property trustee is required to decide between alternative courses of action, construe ambiguous provisions in the Trust XIII Declaration of Trust or is unsure of the application of any provision of the Trust XIII Declaration of Trust, and the matter is not one upon which holders of Trust XIII HITS are

entitled under the Trust XIII Declaration of Trust to vote, then the property trustee will take any action that the Company directs. If the Company does not provide direction, the property trustee may take any action that it deems advisable and in the interests of the holders of the Trust XIII securities and will have no liability except for its own bad faith, negligence or willful misconduct.

The Company and certain of its affiliates have from time to time maintained deposit accounts and conducted other banking transactions with the property trustee and its affiliated entities in the ordinary course of business. The Company expects to continue those business transactions. The property trustee or its affiliates also serve as trustee for a number of series of the Company's outstanding indebtedness under other indentures.

Trust Expenses

Pursuant to the Trust XIII Declaration of Trust, the Company, as sponsor, agrees to pay:

- all debts and other obligations of Trust XIII (other than with respect to the Trust XIII HITS);
- all costs and expenses of Trust XIII, including costs and expenses relating to the organization of Trust XIII, the fees and expenses of the trustees and the cost and expenses relating to the operation of Trust XIII; and
- any and all taxes and costs and expenses with respect thereto, other than U.S. withholding taxes, to which Trust XIII might become subject.

Miscellaneous

The regular trustees are authorized and directed to conduct the affairs of and to operate Trust XIII in such a way that it will not be required to register as an "investment company" under the Investment Company Act or characterized as other than one or more grantor trusts and/or agency arrangements for U.S. federal income tax purposes. In this regard, the Company, as sponsor of Trust XIII, and the regular trustees are authorized to take any action, not inconsistent with applicable law, the certificate of trust of Trust XIII or the Trust XIII Declaration of Trust, that the Company and the regular trustees determine to be necessary or desirable to achieve such end, as long as such action does not materially and adversely affect the interests of the holders of the Trust XIII HITS.

Holders of the Trust XIII HITS have no preemptive or similar rights. The Trust XIII HITS are not convertible into or exchangeable for the Company's Common Stock or any series of the Company's preferred stock (including Series F Preferred Stock).

DESCRIPTION OF 5.63% FIXED TO FLOATING RATE PREFERRED HYBRID INCOME TERM SECURITIES OF BAC CAPITAL TRUST XIV (AND THE GUARANTEE OF THE REGISTRANT RELATED THERETO)

This section describes the 5.63% Fixed to Floating Rate Preferred Hybrid Income Term Securities of BAC Capital Trust XIV (the "**Trust XIV HITS**") and the Company's guarantee related thereto. The Trust XIV HITS are listed on the NYSE under the symbol "BAC/PG".

General

The Trust XIV HITS are a class of preferred beneficial interests in BAC Capital Trust XIV, a Delaware statutory trust ("**Trust XIV**"), and are issued pursuant to the Amended and Restated Declaration of Trust of BAC Capital Trust XIV (the "**Trust XIV Declaration of Trust**") dated as of February 16, 2007 among the Company, as sponsor, The Bank of New York Mellon (formerly known as The Bank of New York), as property trustee, BNY Mellon Trust of Delaware (formerly known as The Bank of New

York (Delaware)), as Delaware Trustee, the regular trustees named therein and the holders of the trust securities. The terms of the Trust XIV HITS include those stated in the Trust XIV Declaration of Trust, any amendments thereto, and those made a part of the Trust XIV Declaration of Trust by the Trust Indenture Act and the Delaware Statutory Trust Act. The Trust XIV Declaration of Trust is included as an exhibit to the Company's Current Report on Form 8-K filed with the SEC on February 16, 2007. As of December 31, 2019, 492,537 Trust XIV HITS (having an aggregate liquidation amount of approximately \$492.5 million) were outstanding.

The common securities of Trust XIV ("**Trust XIV Common Securities**") are held directly or indirectly by the Company. The Trust XIV Common Securities rank on a parity, and payments upon redemption, liquidation or otherwise will be made on a proportionate basis, with the Trust XIV HITS, except as set forth below in "-Ranking of Trust XIV Common Securities". The Trust XIV Declaration of Trust does not permit Trust XIV to issue any securities other than the Trust XIV Common Securities and the Trust XIV HITS or to incur any indebtedness.

The assets of Trust XIV consist of shares of the Company's Adjustable Rate Non-Cumulative Preferred Stock, Series G (the "**Series G Preferred Stock**"), which Trust XIV owns for the benefit of the holders of its Trust XIV HITS and Trust XIV Common Securities (together, the "**Trust XIV securities**"). Each Trust XIV HITS has a liquidation amount of \$1,000 and represents a beneficial interest in Trust XIV that corresponds to 1/100th of a share of Series G Preferred Stock. Because Trust XIV is a pass-through vehicle, Trust XIV will distribute to holders of Trust XIV securities the dividends that it receives on the Series G Preferred Stock. For a description of the terms of the Series G Preferred Stock, see "Description of Preferred Stock - Series G Preferred Stock" above.

Trust XIV's business and affairs are conducted by its trustees, each appointed by the Company as sponsor of Trust XIV.

The Trust XIV HITS are issued in registered book-entry only form and are held in the name of DTC or its nominee.

Distributions

Trust XIV must make distributions on the Trust XIV HITS on relevant distribution dates to the extent that it has funds available therefor. The distribution dates for the Trust XIV HITS are March 15, June 15, September 15 and December 15 of each year. A distribution period is each period beginning on a distribution date and continuing to, but not including, the next succeeding distribution date. When a distribution date is not a business day (as defined in the Trust XIV Declaration of Trust), Trust XIV will make the distribution on the next business day without interest. Distributions are calculated on the basis of a 360-day year and the number of days actually elapsed in a distribution period.

Holders of Trust XIV HITS will be entitled to receive distributions corresponding to dividends on the Series G Preferred Stock. These non-cumulative cash dividends will be payable in arrears if, as and when declared by the Board (or a committee of the Board) on the quarterly dividend payment dates, which each March 15, June 15, September 15 and December 15 (or if such day is not a business day, the next business day). For additional information about dividends on the Series G Preferred Stock, see "Description of Preferred Stock - Series G Preferred Stock" above.

Trust XIV will make distributions on the Trust XIV HITS only to the extent it has received dividends on the Series G Preferred Stock.

Distributions on the Trust XIV HITS will be payable to the holders as they appear in the security register of Trust XIV on the relevant record dates. The record date will be the last day of the month immediately preceding the month in which the relevant distribution date falls.

Mandatory Redemption of Trust XIV HITS upon Redemption of Series G Preferred Stock

The Trust XIV HITS have no stated maturity but must be redeemed on the date the Company redeems the Series G Preferred Stock, and the property trustee or paying agent will apply the proceeds from such repayment or redemption to redeem a like amount, as defined below, of the Trust XIV HITS. The Series G Preferred Stock is perpetual but the Company generally may redeem it at any time. The redemption price per Trust XIV HITS will equal the liquidation amount per Trust XIV HITS plus accumulated and unpaid distributions to, but excluding, the redemption date.

If less than all of the shares of Series G Preferred Stock held by Trust XIV are to be redeemed on a redemption date, then the proceeds from such redemption will be allocated pro rata to the redemption of the Trust XIV HITS and the Trust XIV Common Securities, except as set forth below under “- Ranking of Trust XIV Common Securities.”

The term “*like amount*” as used above means Trust XIV HITS having a liquidation amount equal to that portion of the liquidation amount of the Series G Preferred Stock to be contemporaneously redeemed, the proceeds of which will be used to pay the redemption price of such Trust XIV HITS.

Redemption Procedures. Notice of any redemption will be mailed at least 15 days but not more than 60 days before the redemption date to the registered address of each holder of Trust XIV HITS to be redeemed.

If (1) Trust XIV gives an irrevocable notice of redemption of Trust XIV HITS for cash and (2) the Company has paid to the property trustee a sufficient amount of cash in connection with the related redemption of the Series G Preferred Stock, then on the redemption date, the property trustee will irrevocably deposit with DTC funds sufficient to pay the redemption price for the Trust XIV HITS being redeemed. Trust XIV will also give DTC irrevocable instructions and authority to pay the redemption amount in immediately available funds to the beneficial owners of the Trust XIV HITS. Distributions to be paid on or before the redemption date for any Trust XIV HITS called for redemption will be payable to the holders as of the record dates for the related dates of distribution. If the Trust XIV HITS called for redemption are no longer in book-entry form, the property trustee, to the extent funds are available, will irrevocably deposit with the paying agent for the Trust XIV HITS funds sufficient to pay the applicable redemption price and will give such paying agent irrevocable instructions and authority to pay the redemption price to the holders thereof upon surrender of their certificates evidencing the Trust XIV HITS.

If notice of redemption shall have been given and funds deposited as required, then upon the date of such deposit:

- all rights of the holders of such Trust XIV HITS called for redemption will cease, except the right of the holders of such Trust XIV HITS to receive the redemption price and any distribution payable in respect of the Trust XIV HITS on or prior to the redemption date, but without interest on such redemption price; and
- the Trust XIV HITS called for redemption will cease to be outstanding.

If any redemption date is not a business day, then the redemption amount will be payable on the next business day (and without any interest or other payment in respect of any such delay). However, if

payment on the next business day causes payment of the redemption amount to be in the next calendar month, then payment will be on the preceding business day.

If payment of the redemption amount for any shares of Series G Preferred Stock called for redemption is improperly withheld or refused and accordingly the redemption amount of the Trust XIV HITS is not paid either by Trust XIV or by the Company under the Trust XIV Guarantee (as defined below), then dividends on the Series G Preferred Stock will continue to accrue and distributions on such Trust XIV HITS called for redemption will continue to accumulate at the applicable rate then borne by such Trust XIV HITS from the original redemption date scheduled to the actual date of payment. In this case, the actual payment date will be considered the redemption date for purposes of calculating the redemption amount.

If less than all of the outstanding shares of Series G Preferred Stock are to be redeemed on a redemption date, then the aggregate liquidation amount of Trust XIV HITS and Trust XIV Common Securities to be redeemed shall be allocated *pro rata* to the Trust XIV HITS and Trust XIV Common Securities based upon the relative liquidation amounts of such classes, except as set forth below under “- Ranking of Trust XIV Common Securities.” The property trustee will select the particular Trust XIV HITS to be redeemed on a *pro rata* basis not more than 60 days before the redemption date from the outstanding Trust XIV HITS not previously called for redemption by any method the property trustee deems fair and appropriate, or, if the Trust XIV HITS are in book-entry only form, in accordance with the procedures of DTC. The property trustee shall promptly notify the Transfer Agent in writing of the Trust XIV HITS selected for redemption and, in the case of any Trust XIV HITS selected for redemption in part, the liquidation amount to be redeemed.

For all purposes of the Trust XIV Declaration of Trust, unless the context otherwise requires, all provisions relating to the redemption of Trust XIV HITS shall relate, in the case of any Trust XIV HITS redeemed or to be redeemed only in part, to the portion of the aggregate liquidation amount of Trust XIV HITS that has been or is to be redeemed. If less than all of the Trust XIV HITS are redeemed, the Trust XIV HITS held through the facilities of DTC will be redeemed *pro rata* in accordance with DTC’s internal procedures.

The holders of the Trust XIV HITS do not have any optional redemption rights.

Company Guarantee of Trust XIV HITS

The Company has irrevocably guaranteed (the “**Trust XIV Guarantee**”), on a junior subordinated basis, the payment in full of any accumulated and unpaid distributions required to be paid on the Trust XIV HITS and the redemption price for any Trust XIV HITS called for redemption, in each case to the extent Trust XIV has funds available to make the payment, as well as upon a voluntary or involuntary dissolution, winding-up or liquidation of Trust XIV (other than in connection with a distribution of corresponding assets to the holders of the Trust XIV HITS), the lesser of (i) the aggregate of the liquidation amount and all accumulated and unpaid distributions on the Trust XIV HITS to the date of payment to the extent Trust XIV has funds available to make the payment, and (ii) the amount of assets of Trust XIV remaining available for distribution to holders of Trust XIV HITS upon liquidation of Trust XIV. The Trust XIV Guarantee is a guarantee of payment and not of collection.

The Trust XIV Guarantee may be amended only with the prior approval of the holders of not less than a majority in aggregate liquidation amount of the outstanding Trust XIV HITS. No vote will be required, however, for any changes that do not adversely affect the rights of the holders of the Trust XIV HITS in any material respect.

The Company's obligations under the Trust XIV Guarantee are unsecured, are subordinated to and junior in right of payment to all of the Company's secured and senior and subordinated indebtedness, and rank on a parity with all other similar guarantees issued by the Company.

The Trust XIV HITS and the Trust XIV Guarantee do not limit the Company's ability or the ability of its subsidiaries to incur additional indebtedness, including indebtedness that ranks senior to or equally with the Trust XIV Guarantee.

The Trust XIV Guarantee, when taken together with the Company's obligations under the Trust XIV Declaration of Trust, including the obligations to pay costs, expenses, debts and liabilities of Trust XIV, other than liabilities with respect to the Trust XIV securities, has the effect of providing a full and unconditional guarantee on an unsecured and junior subordinated basis of amounts due on the Trust XIV HITS.

The HITS Guarantee Agreement dated as of February 16, 2007 between the Company, as guarantor, and The Bank of New York Mellon (formerly known as The Bank of New York), as guarantee trustee, related to the Trust XIV HITS, is included as an exhibit to the Company's Current Report on Form 8-K filed with the SEC on February 16, 2007.

Liquidation Distribution upon Dissolution

The Company can at any time dissolve and liquidate Trust XIV. Pursuant to the Trust XIV Declaration of Trust, Trust XIV shall dissolve on the first to occur of:

- upon the Company's bankruptcy, dissolution or winding up;
- upon the filing of a certificate of dissolution or its equivalent with respect to the Company;
- upon the consent of the holders of at least a majority in aggregate liquidation amount of Trust XIV securities voting together as a single class to dissolve Trust XIV;
- upon the revocation of the Company's charter and the expiration of 90 days after the date of revocation without a reinstatement thereof;
- at the Company's election at any time pursuant to which Trust XIV has been dissolved in accordance with the terms of the Trust XIV securities and upon the distribution of the assets of Trust XIV corresponding to its securities to the holders of Trust XIV securities;
- upon the entry of a decree of judicial dissolution of the holder of the Trust XIV Common Securities, the Company or Trust XIV; or
- upon the redemption of all of the Trust XIV HITS.

Except as set forth in the next paragraph, if an early dissolution occurs as a result of certain events of the Company's bankruptcy, dissolution or liquidation, or if an early dissolution occurs as a result of the entry of an order for the dissolution of Trust XIV by a court of competent jurisdiction, the property trustee and the regular trustees will liquidate Trust XIV as expeditiously as they determine possible by distributing, after satisfaction of liabilities to creditors of Trust XIV as provided by applicable law, to each holder of Trust XIV HITS a like amount of corresponding assets as of the date of such distribution. Trust

XIV shall give notice of liquidation to each holder of Trust XIV HITS at least 15 days and not more than 60 days before the date of liquidation.

If, whether because of an order for dissolution entered by a court of competent jurisdiction or otherwise, the property trustee determines that distribution of the corresponding assets in the manner provided above is not practical, or if the early dissolution occurs as a result of the redemption of all the Trust XIV HITS, the property trustee and the regular trustees shall liquidate the property of Trust XIV and wind up its affairs in such manner as they determine. In that case, upon the winding-up of Trust XIV, except with respect to an early dissolution that occurs as a result of the redemption of all the Trust XIV HITS, the holders will be entitled to receive out of the assets of Trust XIV available for distribution to holders of the Trust XIV securities and after satisfaction of liabilities to creditors of Trust XIV as provided by applicable law, an amount equal to the liquidation amount per Trust XIV security plus accumulated and unpaid distributions to the date of payment. If, upon any such winding-up, Trust XIV has insufficient assets available to pay in full such aggregate liquidation distribution, then the amounts payable directly by Trust XIV on the Trust XIV securities shall be paid on a pro rata basis, except as set forth below under “- Ranking of Trust XIV Common Securities.”

The term “*like amount*” as used above means, with respect to a distribution of Series G Preferred Stock to holders of Trust XIV securities in connection with a dissolution or liquidation of Trust XIV therefor, Series G Preferred Stock having a liquidation preference equal to the liquidation amount of the Trust XIV securities of the holder to whom such Series G Preferred Stock would be distributed.

Distribution of Trust Assets

Upon liquidation of Trust XIV other than as a result of an early dissolution upon the redemption of all the Trust XIV HITS and after satisfaction of the liabilities of creditors of Trust XIV as provided by applicable law, the assets of Trust XIV will be distributed to the holders of the Trust XIV securities in exchange therefor.

After the liquidation date fixed for any distribution of assets of Trust XIV:

- the Trust XIV HITS will no longer be deemed to be outstanding;
- if the assets to be distributed are shares of Series G Preferred Stock, DTC or its nominee, as the record holder of the Trust XIV HITS, will receive a registered global certificate or certificates representing the shares of Series G Preferred Stock to be delivered upon such distribution;
- any certificates representing the Trust XIV HITS not held by DTC or its nominee or surrendered to the exchange agent will be deemed to represent shares of Series G Preferred Stock having a liquidation preference equal to the Trust XIV HITS until such certificates are so surrendered for transfer and reissuance; and
- all rights of the holders of the Trust XIV HITS will cease, except the right to receive Series G Preferred Stock upon such surrender.

As each Trust XIV HITS corresponds to 1/100th of a share of Series G Preferred Stock, holders of Trust XIV HITS may receive fractional shares of Series G Preferred Stock or depositary shares representing the Series G Preferred Stock upon this distribution. Since holders of the Series G Preferred Stock are not entitled to vote for the election of directors in the event the Company does not pay full dividends for six quarterly dividend periods, the Series G Preferred Stock (or depositary shares

representing the Series G Preferred Stock) would not qualify for listing on the NYSE under its current rules.

Ranking of Trust XIV Common Securities

If on any distribution date Trust XIV does not have funds available from payments of dividends on the Series G Preferred Stock to make full distributions on the Trust XIV HITS and the Trust XIV Common Securities, then, if the deficiency in funds results from the Company's failure to pay a full dividend on shares of Series G Preferred Stock on a dividend payment date, then the available funds from dividends on the Series G Preferred Stock will be applied first to make distributions then due on the Trust XIV HITS on a pro rata basis on such distribution date up to the amount of such distributions corresponding to dividends on the Series G Preferred Stock (or, if less, the amount of the corresponding distributions that would have been made on the Trust XIV HITS had the Company paid a full dividend on the Series G Preferred Stock) before any such amount is applied to make a distribution on Trust XIV Common Securities on such distribution date.

If, on any date where Trust XIV HITS and Trust XIV Common Securities must be redeemed because the Company is redeeming Series G Preferred Stock, Trust XIV does not have funds available from the Company's redemption of shares of Series G Preferred Stock to pay the full redemption price then due on all of the outstanding Trust XIV HITS and Trust XIV Common Securities to be redeemed, then (1) the available funds shall be applied first to pay the redemption price on the Trust XIV HITS to be redeemed on such redemption date and (2) Trust XIV Common Securities shall be redeemed only to the extent funds are available for such purpose after the payment of the full redemption price on the Trust XIV HITS to be redeemed.

If an early dissolution event occurs in respect of Trust XIV, no liquidation distributions will be made on the Trust XIV Common Securities until full liquidation distributions have been made on the Trust XIV HITS.

In the case of any event of default under the Trust XIV Declaration of Trust resulting from the Company's failure to comply in any material respect with any of its obligations as issuer of the Series G Preferred Stock, including obligations set forth in the Company's Restated Certificate of Incorporation of or arising under applicable law, the Company, as holder of the Trust XIV Common Securities, will be deemed to have waived any right to act with respect to any such event of default under the Trust XIV Declaration of Trust until the effect of all such events of default with respect to the Trust XIV HITS have been cured, waived or otherwise eliminated. Until all events of default under the Trust XIV Declaration of Trust have been so cured, waived or otherwise eliminated, the property trustee shall act solely on behalf of the holders of the Trust XIV HITS and not on the Company's behalf, and only the holders of the Trust XIV HITS will have the right to direct the property trustee to act on their behalf.

Events of Default; Notice

Any one of the following events constitutes an event of default under the Trust XIV Declaration of Trust (a "**Trust XIV Event of Default**") regardless of the reason for such event of default and whether it shall be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or governmental body:

- the Company's failure to comply in any material respect with its obligations as issuer of the Series G Preferred Stock, under the Restated Certificate of Incorporation, or arising under applicable law;

- the default by Trust XIV in the payment of any distribution on any trust security of Trust XIV when such becomes due and payable, and continuation of such default for a period of 30 days;
- the default by Trust XIV in the payment of any redemption price of any trust security of Trust XIV when such becomes due and payable;
- the failure to perform or the breach, in any material respect, of any other covenant or warranty of the trustees in the Trust XIV Declaration of Trust and the continuation of such default or breach for 90 days after the Company and the trustees have received written notice of the failure to perform or breach in the manner specified in such Trust XIV Declaration of Trust; or
- the occurrence of certain events of bankruptcy or insolvency with respect to the property trustee and the Company's failure to appoint a successor property trustee within 90 days.

Within 30 days after any Trust XIV Event of Default actually known to the property trustee occurs, the property trustee will transmit notice of such Trust XIV Event of Default to the holders of the affected class of Trust XIV securities and to the regular trustees, unless such Trust XIV Event of Default shall have been cured or waived. The Company, as sponsor, and the regular trustees are required to file annually with the property trustee a certificate as to whether or not the Company or the regular trustees are in compliance with all the conditions and covenants applicable to the Company and to them under the Trust XIV Declaration of Trust.

Removal of Trustees

The property trustee and/or the Delaware trustee may be removed at any time by the holder of the Trust XIV Common Securities. The property trustee and the Delaware trustee may be removed by the holders of a majority in liquidation amount of the outstanding Trust XIV HITS for cause. In no event will the holders of the Trust XIV HITS have the right to vote to appoint, remove or replace the regular trustees, which voting rights are vested exclusively in the Company, as the holder of the Trust XIV Common Securities. No resignation or removal of a trustee and no appointment of a successor trustee shall be effective until the acceptance of appointment by the successor trustee in accordance with the provisions of the Trust XIV Declaration of Trust.

Co-Trustees and Separate Property Trustee

At any time or from time to time, for the purpose of meeting the legal requirements of the Trust Indenture Act or of any jurisdiction in which any part of Trust XIV property may at the time be located, the Company, as the holder of the Trust XIV Common Securities, and the regular trustees shall have the power to appoint one or more persons either to act as a co-trustee, jointly with the property trustee, of all or any part of such trust property, or to act as separate trustee of any such property, in either case with such powers as may be provided in the instrument of appointment, and to vest in such person or persons in such capacity any property, title, right or power deemed necessary or desirable, subject to the provisions of such Trust XIV Declaration of Trust.

Mergers, Consolidations, Amalgamations or Replacements of Trust XIV

Trust XIV may not consolidate, amalgamate, or merge with or into, or be replaced by, or convey, transfer, or lease its properties and assets substantially as an entirety, to the Company or any other person, except as described below. Trust XIV may, with the consent of the regular trustees but without the consent of the holders of the applicable Trust XIV securities, the property trustee, or the Delaware trustee, consolidate, amalgamate, or merge with or into, or be replaced by, a trust organized under the laws of any state if:

- the successor entity, if not Trust XIV, either:
 - expressly assumes all of the obligations of Trust XIV with respect to the Trust XIV securities, or
 - substitutes for the Trust XIV securities other securities having substantially the same terms as the Trust XIV securities, so long as the successor securities rank the same as the Trust XIV securities in priority with respect to distributions and payments upon liquidation, redemption, and otherwise;
- the Trust XIV HITS or any successor securities are listed, or any successor securities will be listed upon notification of issuance, on any national or international securities exchange or with another organization, if any, on which the Trust XIV HITS are then listed or quoted;
- the merger, consolidation, amalgamation, or replacement does not cause the Trust XIV HITS, including any successor securities, to be downgraded by any nationally recognized statistical rating organization;
- the merger, consolidation, amalgamation, or replacement does not adversely affect the rights, preferences, and privileges of the holders of Trust XIV securities, including any successor securities, in any material respect, other than in connection with any dilution of the holders' interest in the new entity;
- the successor entity has a purpose identical to that of Trust XIV;
- prior to the merger, consolidation, amalgamation, or replacement, the Company has received an opinion of counsel to Trust XIV to the effect that:
 - the merger, consolidation, amalgamation, or replacement does not adversely affect the rights, preferences, and privileges of the holders of Trust XIV securities, including any successor securities, in any material respect, other than in connection with any dilution of the holders' interest in the new entity;
 - following the merger, consolidation, amalgamation, or replacement, neither Trust XIV nor the successor entity will be required to register as an investment company under the Investment Company Act; and

- following the merger, consolidation, amalgamation, or replacement, Trust XIV or the successor entity will continue to be classified as a grantor trust for U.S. federal income tax purposes; and
- the Company guarantees the obligations of the successor entity under the successor securities at least to the extent provided by the guarantees of the Trust XIV securities.

Trust XIV may not, except with the consent of holders of 100% in liquidation amount of its Trust XIV securities, consolidate, amalgamate, merge with or into, or be replaced by any other entity or permit any other entity to consolidate, amalgamate, merge with or into, or replace it if that consolidation, merger, amalgamation, or replacement would cause Trust XIV or the successor entity to be classified as other than a grantor trust for U.S. federal income tax purposes.

Voting Rights; Amendment of the Trust XIV Declaration of Trust

Except as provided herein and under “-Company Guarantee of Trust XIV HITS” above and as otherwise required by law and the Trust XIV Declaration of Trust, the holders of the Trust XIV HITS will have no voting rights or control over the administration, operation or management of Trust XIV or the obligations of the parties to the Trust XIV Declaration of Trust, including in respect of Series G Preferred Stock beneficially owned by Trust XIV. Under the Trust XIV Declaration of Trust, however, the property trustee will be required to obtain their consent before exercising some of its rights in respect of these securities.

Trust XIV Declaration of Trust. The Company and the regular trustees may amend the Trust XIV Declaration of Trust without the consent of the holders of the Trust XIV HITS, the property trustee or the Delaware trustee, unless in the case of the first two bullets below such amendment will materially and adversely affect the interests of any holder of Trust XIV HITS or the property trustee or the Delaware trustee, to:

- cure any ambiguity, correct or supplement any provisions in the Trust XIV Declaration of Trust that may be inconsistent with any other provision, or to make any other provisions with respect to matters or questions arising under such Trust XIV Declaration of Trust, which may not be inconsistent with the other provisions of the Trust XIV Declaration of Trust;
- modify, eliminate or add to any provisions of the Trust XIV Declaration of Trust to such extent as shall be necessary to ensure that Trust XIV will be classified for U.S. federal income tax purposes as one or more grantor trusts and/or agency arrangements and not as an association or a publicly traded partnership taxable as a corporation at all times that any Trust XIV securities are outstanding, to ensure that Trust XIV will not be required to register as an “investment company” under the Investment Company Act or to ensure the treatment of Trust XIV HITS as Tier 1 regulatory capital under prevailing Federal Reserve rules and regulations;
- provide that certificates for Trust XIV HITS may be executed by a regular trustee by facsimile signature instead of manual signature, in which case such amendment(s) shall also provide for the appointment by the Company of an authentication agent and certain related provisions;

- require that holders that are not U.S. persons for U.S. federal income tax purposes irrevocably appoint a U.S. person to exercise any voting rights to ensure that Trust XIV will not be treated as a foreign trust for U.S. federal income tax purposes; or
- conform the terms of the Trust XIV Declaration of Trust to the description of the Trust XIV Declaration of Trust, the Trust XIV HITS and the Trust XIV Common Securities in the prospectus supplement relating to the initial offering of the Trust XIV HITS, in the manner provided in the Trust XIV Declaration of Trust.

Any such amendment shall become effective when notice thereof is given to the property trustee, the Delaware Trustee and the holders of the Trust XIV HITS.

The Company and the regular trustees may generally amend the Trust XIV Declaration of Trust with:

- the consent of holders representing not less than a majority, based upon liquidation amounts, of each outstanding class of Trust XIV HITS affected by the amendments; and
- receipt by the trustees of Trust XIV of an opinion of counsel to the effect that such amendment or the exercise of any power granted to the trustees of Trust XIV or the regular trustees in accordance with such amendment will not affect Trust XIV's status as one or more grantor trusts and/or agency arrangements for U.S. federal income tax purposes or affect Trust XIV's exemption from status as an "investment company" under the Investment Company Act.

However, without the consent of each affected holder of Trust XIV securities, the Trust XIV Declaration of Trust may not be amended to:

- change the amount or timing, or otherwise adversely affect the amount, of any distribution required to be made in respect of Trust XIV securities as of a specified date; or
- restrict the right of a holder of Trust XIV securities to institute a suit for the enforcement of any such payment on or after such date.

Series G Preferred Stock. So long as the Series G Preferred Stock is held by the property trustee on behalf of Trust XIV, the trustees of Trust XIV will not waive any default in respect of the Series G Preferred Stock without obtaining the prior approval of the holders of at least a majority in liquidation amount of the Trust XIV HITS then outstanding. The trustees of Trust XIV also shall not consent to any amendment to Trust XIV's or the Company's governing documents that would change the dates on which dividends are payable or the amount of such dividends, without the prior written consent of each holder of Trust XIV HITS. In addition to obtaining the foregoing approvals from holders, the trustees of Trust XIV shall obtain, at the Company's expense, an opinion of counsel to the effect that such action shall not cause Trust XIV to be taxable as a corporation or classified as a partnership for U.S. federal income tax purposes.

General. Any required approval of holders of Trust XIV HITS may be given at a meeting of holders of such class of Trust XIV HITS convened for such purpose or pursuant to written consent. The property trustee will cause a notice of any meeting at which holders of Trust XIV HITS are entitled to vote, or of any matter upon which action by written consent of such holders is to be taken, to be given to each record holder of such Trust XIV HITS in the manner set forth in the Trust XIV Declaration of Trust.

No vote or consent of the holders of Trust XIV HITS will be required for Trust XIV to redeem and cancel the Trust XIV HITS in accordance with the Trust XIV Declaration of Trust.

Notwithstanding that holders of the Trust XIV HITS are entitled to vote or consent under any of the circumstances described above, any of the Trust XIV HITS that are owned by the Company or its affiliates or the trustees or any of their affiliates shall, for purposes of such vote or consent, be treated as if they were not outstanding.

Payment and Paying Agent

Payments on the Trust XIV HITS shall be made to DTC by the paying agent, which shall credit the relevant accounts on the applicable distribution dates. If any Trust XIV HITS are not held by DTC, the paying agent shall make such payments by check mailed to the address of the holder as such address shall appear on the register.

The “paying agent” is The Bank of New York Mellon Trust Company, N.A. (formerly known as The Bank of New York Trust Company, N.A.) and any co-paying agent chosen by the property trustee and acceptable to the Company and to the regular trustees. The paying agent shall be permitted to resign as paying agent upon 30 days written notice to the regular trustees and to the property trustee. In the event that The Bank of New York Trust Company, N.A. shall no longer be the paying agent, the property trustee will appoint a successor to act as paying agent, which will be a bank or trust company acceptable to the regular trustees and to the Company.

Registrar and Transfer Agent

The Bank of New York Mellon Trust Company, N.A. acts registrar and transfer agent for the Trust XIV HITS.

Registration of transfers of Trust XIV HITS will be effected without charge by or on behalf of Trust XIV but after payment of any tax or other governmental charges that may be imposed in connection with any transfer or exchange. Neither Trust XIV nor the transfer agent shall be required to register the transfer of or exchange any trust security during a period beginning at the opening of business 15 days before the day of selection for redemption of Trust XIV securities and ending at the close of business on the day of mailing of notice of redemption or to transfer or exchange any trust security so selected for redemption in whole or in part, except, in the case of any trust security to be redeemed in part, any portion thereof not to be redeemed.

Any Trust XIV HITS can be exchanged for other Trust XIV HITS so long as such other Trust XIV HITS are denominated in authorized denominations and have the same aggregate liquidation amount and same terms as the Trust XIV HITS that were surrendered for exchange. The Trust XIV HITS may be presented for registration of transfer, duly endorsed or accompanied by a satisfactory written instrument of transfer, at the office or agency maintained by the Company for that purpose in a place of payment. There will be no service charge for any registration of transfer or exchange of the Trust XIV HITS, but the Company may require holders to pay any tax or other governmental charge payable in connection with a transfer or exchange of the Trust XIV HITS. The Company may at any time rescind the designation or approve a change in the location of any office or agency, in addition to the security registrar, designated by the Company where holders can surrender the Trust XIV HITS for registration of transfer or exchange. However, Trust XIV will be required to maintain an office or agency in each place of payment for the Trust XIV HITS.

Information Concerning the Property Trustee

Other than during the occurrence and continuance of a Trust Event of Default, the property trustee undertakes to perform only the duties that are specifically set forth in the Trust XIV Declaration of Trust. After a Trust XIV Event of Default, the property trustee must exercise the same degree of care and skill as a prudent individual would exercise or use in the conduct of his or her own affairs. Subject to this provision, the property trustee is under no obligation to exercise any of the powers vested in it by the Trust XIV Declaration of Trust at the request of any holder of Trust XIV HITS unless it is offered indemnity satisfactory to it by such holder against the costs, expenses and liabilities that might be incurred. However, the holders of the Trust XIV HITS will not be required to offer any indemnity if those holders, by exercising their voting rights, direct the property trustee to take any action following an event of default under the Trust XIV Declaration of Trust. If no Trust XIV Event of Default has occurred and is continuing and the property trustee is required to decide between alternative courses of action, construe ambiguous provisions in the Trust XIV Declaration of Trust or is unsure of the application of any provision of the Trust XIV Declaration of Trust, and the matter is not one upon which holders of Trust XIV HITS are entitled under the Trust XIV Declaration of Trust to vote, then the property trustee will take any action that the Company directs. If the Company does not provide direction, the property trustee may take any action that it deems advisable and in the interests of the holders of the Trust XIV securities and will have no liability except for its own bad faith, negligence or willful misconduct.

The Company and certain of its affiliates have from time to time maintained deposit accounts and conducted other banking transactions with the property trustee and its affiliated entities in the ordinary course of business. The Company expects to continue those business transactions. The property trustee or its affiliates also serve as trustee for a number of series of the Company's outstanding indebtedness under other indentures.

Trust Expenses

Pursuant to the Trust XIV Declaration of Trust, the Company, as sponsor, agrees to pay:

- all debts and other obligations of Trust XIV (other than with respect to the Trust XIV HITS);
- all costs and expenses of Trust XIV, including costs and expenses relating to the organization of Trust XIV, the fees and expenses of the trustees and the cost and expenses relating to the operation of Trust XIV; and
- any and all taxes and costs and expenses with respect thereto, other than U.S. withholding taxes, to which Trust XIV might become subject.

Miscellaneous

The regular trustees are authorized and directed to conduct the affairs of and to operate Trust XIV in such a way that it will not be required to register as an "investment company" under the Investment Company Act or characterized as other than one or more grantor trusts and/or agency arrangements for U.S. federal income tax purposes. In this regard, the Company, as sponsor of Trust XIV, and the regular trustees are authorized to take any action, not inconsistent with applicable law, the certificate of trust of Trust XIV or the Trust XIV Declaration of Trust, that the Company and the regular trustees determine to be necessary or desirable to achieve such end, as long as such action does not materially and adversely affect the interests of the holders of the Trust XIV HITS.

Holders of the Trust XIV HITS have no preemptive or similar rights. The Trust XIV HITS are not convertible into or exchangeable for the Company's Common Stock or any series of the Company's preferred stock (including the Series G Preferred Stock).

**DESCRIPTION OF INCOME CAPITAL OBLIGATION NOTES
INITIALLY DUE DECEMBER 15, 2066**

This section describes the Company's Income Capital Obligations Notes initially due December 15, 2066 (the "**ICONS**"). The ICONs are issued under the Junior Subordinated Indenture dated as of December 14, 2006 between the Company (successor by merger to Merrill Lynch & Co., Inc.) and The Bank of New York Mellon (formerly known as The Bank of New York), as trustee (as supplemented, the "**ICONS Indenture**"). The ICONs Indenture is included as an exhibit to the Company's Registration Statement on Form 8-A filed with the SEC on October 18, 2018.

General

The ICONs are unsecured junior subordinated debt securities of the Company. An aggregate principal amount of \$1,050,000,000 of the ICONs was outstanding as of December 31, 2019. The ICONs are listed on the NYSE under the symbol "MER PrK". The ICONs are issued in registered book-entry only form, represented by a global security registered in the name of a depository.

Unless the ICONs are redeemed prior to maturity, the ICONs will mature on December 15, 2066 (the "**Initial Scheduled Maturity Date**"), unless the Company extends the maturity of the ICONs as described below.

Interest Rate

The ICONs will bear interest at 6.45% per annum through the Initial Scheduled Maturity Date or any earlier redemption date (the "**Fixed Rate Period**"). Subject to the Company's right to defer interest payments described below, during the Fixed Rate Period interest is payable quarterly in arrears, on March 15, June 15, September 15, and December 15 of each year. If interest payments are deferred or otherwise not paid during the Fixed Rate Period, the interest will accrue and compound until paid at the annual rate of 6.45%. The amount of interest payable for any accrual period during this period will be compounded on the basis of a 360-day year consisting of twelve 30-day months.

If the Company elects to extend the maturity date of the ICONs as described below, the ICONs will bear interest at the Three-Month LIBOR Rate plus 132.7 basis points (1.327%), reset quarterly, during the period commencing on and including December 15, 2066 to, but excluding, the date on which the ICONs mature or any earlier redemption date (the "**Floating Rate Period**"). Subject to the Company's right to defer interest payments as described below, during the Floating Rate Period interest is payable quarterly in arrears on March 15, June 15, September 15 and December 15 of each year, beginning March 15, 2067. If interest payments are deferred or otherwise not paid during the Floating Rate Period, the interest will accrue and compound until paid at the prevailing floating rate. The amount of interest payable for any accrual period during the Floating Rate Period will be computed on the basis of a 360-day year and the actual number of days elapsed during the relevant period.

During the Fixed Rate Period if an interest payment date or a redemption date of the ICONs falls on a day that is not a business day, the payment of interest and principal will be made on the next succeeding business day, and no interest on such payment will accrue for the period from and after the interest payment date or the redemption date, as applicable. During the Floating Rate Period, if any interest payment date, other than a redemption date or the maturity date of the ICONs, falls on a day that is not a business day, the interest payment date will be postponed to the next day that is a business day, except that if that business day is in the next succeeding calendar month, the interest payment date will be the immediately preceding business day. Also during the Floating Rate Period, if a redemption date or the

maturity date of the ICONs falls on a day that is not a business day, the payment of interest and principal will be made on the next succeeding business day, and no interest on such payment will accrue for the period from and after the redemption date or the maturity date, as applicable.

A “**business day**” means any day other than a day on which banking institutions in The City of New York are authorized or required by law to close; provided that, during the Floating Rate Period the day is also a London banking day. “**London banking day**” means a day on which commercial banks are open for business, including dealings in U.S. dollars, in London.

The “**Three-Month LIBOR Rate**” means the rate determined in accordance with the following provisions. On the LIBOR interest determination date, the calculation agent or its affiliate will determine the Three-Month LIBOR Rate which will be the rate for deposits in U.S. Dollars having a three-month maturity which appears on the Telerate Page 3750 as of 11:00 a.m., London time, on the LIBOR interest determination date. If no rate appears on Telerate Page 3750 on the LIBOR interest determination date, the calculation agent or its affiliate will request the principal London offices of four major reference banks in the London Inter-Bank Market to provide it with their offered quotations for deposits in U.S. Dollars for the period of three months, commencing on the applicable interest payment date in the Floating Rate Period, to prime banks in the London Inter-Bank Market at approximately 11:00 a.m., London time, on that LIBOR interest determination date and in a principal amount that is representative for a single transaction in U.S. dollars in that market at that time. If at least two quotations are provided, the Three-Month LIBOR Rate will be the average (rounded, if necessary, to the nearest one hundredth (0.01) of a percent) of those quotations. If fewer than two quotations are provided, then the Three-Month LIBOR Rate will be the average (rounded, if necessary, to the nearest one hundredth (0.01) of a percent) of the rates quoted at approximately 11:00 a.m., New York City time, on the LIBOR interest determinate date by three major banks in New York City selected by the calculation agent or its affiliate for loans in U.S. Dollars to leading European banks, having a three-month maturity and in a principal amount that is representative for a single transaction in U.S. dollars in that market at that time. If the banks selected by the calculation agent or its affiliate are not providing quotations in the manner described by this paragraph, the rate for the quarterly interest period following the LIBOR interest determination date will be the rate in effect on that LIBOR interest determination date.

“**Telerate Page 3750**” means the display designated as “Telerate page 3750” on Moneyline Telerate, Inc. (or such other page as may replace “Telerate page 3750” on such service) or such other service displaying the London Inter-Bank offered rates of major banks, as may replace Moneyline Telerate, Inc.

“**LIBOR interest determination date**” means the second London banking day preceding each interest payment date in the Floating Rate Period.

“**Calculation agent**” means The Bank of New York Mellon, or its successor appointed by the Company, acting as calculation agent.

Interest payable at any interest payment date other than the maturity date will be paid to the registered holder of the ICON on the regular record date for that interest payment date. The principal and interest payable at maturity will be paid to the holder of the ICON at the time of payment by the paying agent.

Maturity; Extension of Maturity

The ICONs do not have a sinking fund. This means that the Company is not required to make any principal payments prior to maturity.

The ICONs will mature on December 15, 2066 unless the Company elects to extend the maturity date as described in the following paragraph.

On December 15, 2026, the Company may, at its sole option, elect to extend the maturity date of the ICONs for an additional ten years. If the Company makes this election, the ICONs will mature on December 15, 2076. The Company will provide irrevocable notice of any such election not less than 30 days, nor more than 60 days, prior to the applicable election date. The Company may make this election to extend the maturity date of the ICONs only if the following conditions are met at the time it provides irrevocable notice of any such election:

- the Company's senior unsecured indebtedness is rated at least Baa1 by Moody's Investors Service, Inc. ("Moody's") or BBB+ by either of Standard & Poor's Ratings Services, a division of McGraw Hill, Inc. ("S&P") or Fitch Ratings ("Fitch") or, if any of Moody's, S&P and Fitch (or their respective successors) is no longer in existence, the equivalent rating by any other nationally recognized statistical rating organization within the meaning of Rule 15c3-1 under the Exchange Act;
- the Company is not deferring the payment of interest on the ICONs pursuant to an Optional Deferral Period (as defined below); and
- the Company is not in default in respect of any of its outstanding indebtedness for money borrowed having an aggregate principal or face amount in excess of \$100 million.

Ranking of the ICONs

The Company's payment obligations under the ICONs are unsecured and rank junior and are subordinated in right of payment and upon liquidation to all of its Senior Indebtedness.

"**Senior Indebtedness**" means, with respect to the Company, (i) the principal, premium, if any, and interest in respect of (A) indebtedness for money borrowed and (B) indebtedness evidenced by securities, notes, debentures, bonds or other similar instruments issued by the Company, including without limitation all indebtedness (whether now or hereafter outstanding) issued under the Merrill Lynch & Co., Inc. subordinated indenture, dated as of December 17, 1996, (ii) all capital lease obligations of the Company, (iii) all obligations of the Company issued or assumed as the deferred purchase price of property, all conditional sale obligations of the Company and all obligations of the Company under any conditional sale or title retention agreement (but excluding trade accounts payable in the ordinary course of business), (iv) all obligations, contingent or otherwise, of the Company in respect of any letters of credit, banker's acceptances, security purchase facilities and similar credit transactions, (v) all obligations of the Company in respect of interest rate swap, cap or other agreements, interest rate future or option contracts, currency swap agreements, currency future or option contracts and other similar agreements, (vi) all obligations of the type referred to in clauses (i) through (v) of other persons for the payment of which the Company is responsible or liable as obligor, guarantor or otherwise, and (vii) all obligations of the type referred to in clauses (i) through (vi) of other persons secured by any lien on any property or asset of the Company (whether or not such obligation is assumed by the Company), except that Senior Indebtedness does not include obligations in respect of (1) any indebtedness issued under the ICONs

Indenture, (2) any guarantee entered into by the Company in respect of any capital securities issued by any finance subsidiary trust similar to Merrill Lynch Capital Trust I, (3) any indebtedness or any guarantee that is by its terms subordinated to, or ranks equally with, the ICONs and the issuance of which does not at the time of issuance prevent the ICONs from qualifying for tier 1 (or its equivalent for purposes of the capital adequacy guidelines of the applicable regulatory body or governmental authority) capital treatment (irrespective of any limits on the amount of the Company's tier 1 capital) under applicable capital adequacy guidelines, regulations, policies, published interpretations, or the concurrence or approval of the SEC or any other applicable regulatory body or governmental authority, or (4) trade accounts payable. Upon any payment or distribution of assets to creditors upon the Company's liquidation, dissolution, winding up, reorganization, whether voluntary or involuntary, assignment for the benefit of creditors, marshaling of assets or any bankruptcy, insolvency, debt restructuring or similar proceedings, the holders of Senior Indebtedness will first be entitled to receive payment in full of the principal, premium, or interest due before the holders of ICONs will be entitled to receive any payment or distribution.

In the event of the acceleration of the maturity of any ICONs, the holders of all Senior Indebtedness outstanding at the time of the acceleration will first be entitled to receive payment in full of all amounts due on the Senior Indebtedness (including any amounts due upon acceleration) before the holders of the ICONs.

No payment, by or on the Company's behalf, of principal or interest on the ICONs shall be made if at the time of the payment, there exists:

- a default in any payment on any Senior Indebtedness, or any other default under which the maturity of any Senior Indebtedness has been accelerated; and
- any judicial proceeding relating to the defaults which shall be pending.

At December 31, 2019, the Senior Indebtedness to which the ICONs would rank subordinate includes (but is not limited to) approximately \$323 billion of principal, premium, if any, and interest in respect of indebtedness for money borrowed and indebtedness evidenced by securities, notes, debentures, bonds or other similar instruments issued by the Company, on an unconsolidated basis.

Because the Company is a holding company, its right and the rights of its creditors, including the holders of the ICONs, to participate in any distribution of the assets of any subsidiary upon its liquidation or reorganization or otherwise is necessarily subject to the prior claims of creditors of the subsidiary, except to the extent that a bankruptcy court may recognize its claims as a creditor of its subsidiary. In addition, dividends, loans and advances from certain subsidiaries are restricted by net capital requirements under the Exchange Act and under rules of certain exchanges and other regulatory bodies.

The ICONs do not limit the Company's or its subsidiaries' ability to incur additional debt or liabilities, including debt or other liabilities which would rank senior in priority of payment to the ICONs.

Redemption

Subject to obtaining any required regulatory approval, the Company may redeem the ICONs before their maturity in whole or in part, on one or more occasions at any time, at 100% of their principal amount plus accrued and unpaid interest. Notice of any redemption will be given at least 30 days but not more than 60 days before the redemption date to each holder of ICONs at its registered address. The holders of the ICONs do not have any optional redemption rights.

Option to Defer Interest Payments

As long as no event of default that would permit acceleration of the ICONs has occurred and is continuing, the Company can defer quarterly interest payments on the ICONs for one or more periods (each an “**Optional Deferral Period**”) for up to 40 consecutive quarters, or 10 years, if no event of default that would permit acceleration of the ICONs has occurred and is continuing. A deferral of interest payments cannot extend, however, beyond the maturity date of the ICONs. During the Optional Deferral Period, interest will continue to accrue on the ICONs, compounded quarterly, and deferred interest payments will accrue additional interest at the annual interest rate then applicable to the ICONs to the extent permitted by applicable law. No interest will be due and payable on the ICONs until the end of the Optional Deferral Period except upon a redemption of the ICONs during a deferral period.

The Company may pay at any time all or any portion of the interest accrued to that point during an Optional Deferral Period. At the end of the Optional Deferral Period or on any redemption date, the Company will be obligated to pay all accrued and unpaid interest.

Once the Company pays all accrued and unpaid deferred interest on the ICONs, the Company again can defer interest payments on the ICONs as described above, provided that a deferral period cannot extend beyond the maturity date of the ICONs. The Company may pay the accrued and unpaid interest at any time during an Optional Deferral Period.

Certain Limitations During a Deferral Period. During any deferral period, the Company will not and its subsidiaries will not be permitted to:

- declare or pay any dividends or distributions, or redeem, purchase, acquire, or make a liquidation payment on any of the Company’s capital stock;
- make any payment of principal of or interest or premium, if any, on or repay, repurchase or redeem any of the Company’s debt securities that rank equally with or junior in interest to the ICONs, other than pro rata payments of accrued and unpaid amounts on the ICONs and any other of the Company’s debt securities that rank equally with the ICONs; or
- make any guarantee payments on any guarantee by the Company of debt securities of any of its subsidiaries if the guarantee ranks equally with or junior in interest to the guarantee issued in connection with Merrill Lynch Capital Trust I other than pro rata payments of accrued and unpaid amounts on the guarantee and any other of the Company’s guarantees of debt securities of its subsidiaries that rank equally with the guarantee.

However, at any time, including during a deferral period, the Company will be permitted to:

- pay dividends or distributions on its capital stock in additional shares of its capital stock;
- declare or pay a dividend in connection with the implementation of a shareholders’ rights plan, or issue stock under such a plan or repurchase such rights; and
- purchase Common Stock for issuance pursuant to any employee benefit plans.

Notice. The Company will provide to the trustee written notice of any optional deferral of interest at least ten and not more than 60 business days prior to the applicable interest payment date, and the trustee shall promptly give notice of the election to the holders of the ICONs.

Events of Default and Rights of Acceleration

The ICONs Indenture provides that any one or more of the following events with respect to the ICONs that has occurred and is continuing constitutes an event of default and acceleration:

- default in the payment of interest, including compounded interest, in full on any ICONs for a period of 30 days after the conclusion of a ten-year period following the commencement of any Optional Deferral Period; or
- some events of bankruptcy, insolvency and reorganization involving the Company.

If an event of default and acceleration under the ICONs Indenture of the type described in the first bullet point above has occurred and is continuing, the trustee or the holders of at least 25% in outstanding principal amount of the ICONs will have the right to declare the principal of, and accrued interest (including compounded interest) on, those securities to be due and payable immediately. If the trustee or the holders of at least 25% of the outstanding principal amount of the ICONs fail to make that declaration, then the holders of at least 25% in total liquidation amount of the capital securities then outstanding will have the right to do so. If an event of default and acceleration under the ICONs Indenture arising from events of bankruptcy, insolvency and reorganization involving the Company occurs, the principal of and accrued interest on the ICONs will automatically, and without any declaration or other action on the part of the trustee or any holder of ICONs, become immediately due and payable. In case of any default that is not an event of default and acceleration, there is no right to declare the principal amount of the junior subordinated debt securities immediately payable. The holders of a majority in aggregate principal amount of the ICONs then outstanding, in some circumstances, may annul the declaration of acceleration and waive past defaults.

Modification of ICONs Indenture

The Company and the trustee may change the indenture without the holders' consent for specified purposes, including:

- to fix any ambiguity, defect or inconsistency, provided that the change does not materially adversely affect the interest of any holder of ICONs; and
- to qualify or maintain the qualification of the ICONs Indenture under the Trust Indenture Act.

In addition, under the ICONs Indenture, the Company and the trustee may modify the ICONs Indenture to affect the rights of the holders of the ICONs, with the consent of the holders of a majority in principal amount of the outstanding ICONs that are affected. However, neither the Company nor the trustee may take the following actions without the consent of each holder of the ICONs affected:

- change the maturity date of the ICONs (other than in connection with any election by the Company to extend the maturity of the ICONs in accordance with their terms), or reduce the principal amount, rate of interest, or extend the time of payment of interest;
- reduce the percentage in principal amount of the ICONs necessary to modify the ICONs Indenture;
- modify some provisions of the ICONs Indenture relating to modification or waiver, except to increase the required percentage; or

- modify the provisions of the ICONs Indenture relating to the subordination of the ICONs in a manner adverse to the holders.

Consolidation, Merger, Sale of Assets and Other Transactions

The ICONs Indenture provides that the Company cannot consolidate with or merge into any other person or convey, transfer or lease its properties and assets substantially as an entirety to any person, and no person will consolidate with or merge into the Company or convey, transfer or lease its properties and assets substantially as an entirety to the Company, unless:

- the Company is the continuing entity or the successor is organized under the laws of the United States or any state or the District of Columbia and expressly assumes all of the Company's obligations under the ICONs Indenture;
- immediately after the transaction, no event of default, and no event which, after notice or lapse of time or both, would become an event of default, shall have occurred and be continuing; and
- certain other conditions specified in the ICONs Indenture are met.

Collection of Indebtedness

If the Company fails to pay the principal of or any premium on any securities, or if it is over 30 calendar days late on any interest payment or other amounts payable (other than principal, any premium, or other amounts payable at maturity or upon redemption) on the securities, the trustee can demand that the Company pay to it, for the benefit of the holders of those securities, the amount which is due and payable on those securities, including any interest incurred because of the Company's failure to make that payment. If the Company fails to pay the required amount on demand, the trustee may take appropriate action, including instituting judicial proceedings against the Company.

The holders of a majority of the aggregate outstanding principal amount of the ICONs have the right to direct the time, method and place of conducting any proceeding for any remedy available to the trustee with respect to the ICONs, but the trustee will be entitled to receive from the holders indemnity reasonably satisfactory to the trustee against expenses and liabilities.

The Company is required periodically to file with the trustee under the ICONs Indenture a certificate stating that the Company is not in default under any of the terms of the ICONs Indenture.

Limitation on Suits

The ICONs Indenture provides that no individual holder of ICONs may institute any action against the Company under the indenture, except actions for the payment of overdue principal, any premium, interest or other amounts due, unless the following actions have occurred:

- the holder must have previously given written notice to the trustee of a continuing event of default;
- the holders of not less than 25% in principal amount of such outstanding securities issued under the ICONs Indenture must have (1) requested the trustee to institute proceedings in respect of such event of default and (2) offered the trustee indemnity against liabilities incurred by the trustee for taking such action, which indemnity is reasonably satisfactory to the trustee;

- the trustee must have failed to institute proceedings within 60 days after receipt of the request referred to above;
and
- the holders of a majority in principal amount of such outstanding ICONs must not have given direction to the trustee inconsistent with the request of the holders referred to above.

However, the holder of any securities will have an absolute right to receive payment of principal of and any premium and interest or other amounts due on the securities when due and to institute suit to enforce this payment.

DESCRIPTION OF SENIOR MEDIUM TERM NOTES, SERIES A, STEP UP CALLABLE NOTES, DUE NOVEMBER 28, 2031 OF BOFA FINANCE LLC (AND THE GUARANTEE OF THE REGISTRANT RELATED THERETO)

This section describes the Senior Medium-Term Notes, Series A, Step Up Callable Notes, due November 28, 2031 (the “Step Up Callable Notes”), issued by BofA Finance LLC (“**BofA Finance**”) and guaranteed by the Company. The Step Up Callable Notes were issued under the Indenture dated as of August 23, 2016 among BofA Finance, as issuer, the Company, as guarantor, and The Bank of New York Mellon Trust Company, N.A., as trustee (the “**BofA Finance Indenture**”). The BofA Finance Indenture is filed as an exhibit to the Company’s Registration Statement on Form S-3 (File No. 333-213265) filed with the SEC, pursuant to which the Step Up Callable Notes were issued.

Principal Terms of the Step Up Callable Notes

The Step Up Callable Notes are unsecured senior debt securities issued by BofA Finance, which are fully and unconditionally guaranteed by the Company. The Step Up Callable Notes were issued originally on November 28, 2016 in the aggregate principal amount of \$5,000,000, all of which is outstanding as of December 31, 2019. The Step Up Callable Notes are listed on the NYSE under the symbol “BAC/31B”. The Step Up Callable Notes are issued in registered book-entry only form, represented by a global security registered in the name of a depository.

Unless the Step Up Callable Notes are redeemed prior to maturity, the Step Up Callable Notes will mature on November 28, 2031. The Step Up Callable Notes are not subject to the operation of a sinking fund.

Interest on the Step Up Callable Notes is payable semiannually in arrears, on May 28 and November 28 of each year, with the final interest date occurring on the maturity date. Each interest period (other than the first interest period, which began on the issue date) will begin on, and will include, an interest payment date, and will extend to, but will exclude, the next succeeding interest payment date (or the maturity date, as applicable). Interest on the Step Up Callable Notes is computed and paid on the basis of a 360-day year consisting of twelve 30-day months. The Step Up Callable Notes will accrue interest at the following rates per annum during the indicated periods of their term:

- November 28, 2016 to, but excluding, November 28, 2021: 3.00%
- November 28, 2021 to, but excluding, November 28, 2026: 3.50%
- November 28, 2026 to, but excluding, November 28, 2028: 4.00%
- November 28, 2028 to, but excluding, November 28, 2030: 5.00%
- November 28, 2030 to, but excluding, November 28, 2031: 7.00%

Interest payable at any interest payment date other than the maturity date will be paid to the registered holder of the note on the regular record date for that interest payment date. The principal and interest payable at maturity will be paid to the holder of the note at the time of payment by the paying agent.

BofA Finance has the right to redeem all, but not less than all, of the Step Up Callable Notes on November 28, 2019 and on each subsequent interest payment date (other than the maturity date). The redemption price will be 100% of the principal amount of the Step Up Callable Notes, plus any accrued and unpaid interest. In order to call the Step Up Callable Notes, BofA Finance will give notice at least five business days but not more than 60 calendar days before the specified early redemption date.

If any interest payment date, any early redemption date or the maturity date of the Step Up Callable Notes occurs on a day that is not a business day in New York, New York, then the payment will be postponed until the next business day in New York, New York. No additional interest will accrue on the Step Up Callable Notes as a result of such postponement, and no adjustment will be made to the length of the relevant interest period. As long as the Step Up Callable Notes are held in book-entry only form, the record dates for interest payments on the notes will be one business day in New York, New York prior to the payment date.

The trustee serves as the sole paying agent, security registrar and transfer agent for the Step Up Callable Notes through the trustee's office or agency in Jacksonville, Florida. BofA Finance may rescind the designation of paying agent, appoint a successor or an additional paying agent, or approve a change in the office through which any paying agent acts in accordance with the terms of the BofA Finance Indenture. BofA Finance also may decide to act as its own paying agent, and the paying agent may resign.

The Company and certain of its affiliates have from time to time maintained deposit accounts and conducted other banking transactions with The Bank of New York Mellon Trust Company, N.A. and its affiliates in the ordinary course of business. The Company and its affiliates expect to continue these business transactions. The Bank of New York Mellon Trust Company, N.A. and its affiliates also serve as trustee for a number of series of outstanding indebtedness of the Company and its affiliates under other indentures.

Company Guarantee

The Company has fully and unconditionally guaranteed, on an unsecured basis, the due and punctual payment of the principal of (and premium, if any, on) and any interest and all other amounts payable on the Step Up Callable Notes issued by BofA Finance, when the same becomes due and payable, whether at maturity or upon redemption, repayment or acceleration, in accordance with the terms of the Step Up Callable Notes and the BofA Finance Indenture. If for any reason BofA Finance does not make any required payment on the securities when due, the Company will make such payment, on demand, at the same place and in the same manner that applies to payments made by BofA Finance under the BofA Finance Indenture. The guarantee is of payment and not of collection. The Company's obligations under its guarantee of the securities are unconditional and absolute.

Sale or Issuance of Capital Stock of Principal Subsidiary Banks

The BofA Finance Indenture provides that, subject to the provisions of the BofA Finance Indenture described below relating to the merger or sale of assets of the Company, the Company will not sell, assign, transfer or otherwise dispose of, or permit the issuance of, or permit a subsidiary to sell, assign, transfer or dispose of, any shares of capital stock, or any securities convertible into or options, warrants or rights to acquire capital stock, of any "principal subsidiary bank" (as described below) or of any subsidiary which owns shares of capital stock, or securities convertible into or options, warrants or rights to acquire capital stock, of any principal subsidiary bank, with the following exceptions:

- sales of directors' qualifying shares;
- sales or other dispositions for fair market value, if, after giving effect to the disposition and to conversion of any shares or securities convertible into capital stock of a principal subsidiary bank, the Company would own at least 80% of each class of the capital stock of that principal subsidiary bank;

- sales or other dispositions made in compliance with an order of a court or regulatory authority of competent jurisdiction;
- any sale by a principal subsidiary bank of additional shares of its capital stock, securities convertible into shares of its capital stock, or options, warrants or rights to subscribe for or purchase shares of its capital stock, to its stockholders at any price, so long as before that sale the Company owned, directly or indirectly, securities of the same class and immediately after the sale, the Company owned, directly or indirectly, at least as great a percentage of each class of securities of the principal subsidiary bank as it owned before the sale of additional securities; and
- any issuance of shares of capital stock, or securities convertible into or options, warrants or rights to subscribe for or purchase shares of capital stock, of a principal subsidiary bank or any subsidiary which owns shares of capital stock, or securities convertible into or options, warrants or rights to acquire capital stock, of any principal subsidiary bank, to the Company or its wholly-owned subsidiary.

A “**principal subsidiary bank**” is defined in the BofA Finance Indenture as any bank or trust company subsidiary of the Company that is organized and doing business under any U.S. state or federal law, with total assets equal to more than 10% of the Company’s total consolidated assets.

Limitation on Mergers and Sales of Assets

Under the terms of the BofA Finance Indenture, each of BofA Finance and the Company generally is permitted to merge or consolidate with another entity. Each of BofA Finance and the Company also is permitted to sell all or substantially all of its assets. These transactions are permitted if:

- With respect to BofA Finance:
 - the resulting or acquiring entity, if other than BofA Finance, is organized and existing under the laws of the United States or any state or the District of Columbia and expressly assumes all of BofA Finance’s obligations under the BofA Finance Indenture and the debt securities issued under the BofA Finance Indenture; and
 - immediately after the transaction, BofA Finance (or any successor entity) is not in default in the performance of any covenant or condition under the BofA Finance Indenture.
- With respect to the Company:
 - the resulting or acquiring entity, if other than the Company, is organized and existing under the laws of the United States or any state or the District of Columbia and expressly assumes the guarantee obligations under the BofA Finance Indenture; and
 - immediately after the transaction, the Company (or any successor guarantor) is not in default in the performance of any covenant or condition under the BofA Finance Indenture.

Upon any consolidation, merger, sale, or transfer of this kind, the resulting or acquiring entity will be substituted for BofA Finance or the Company, as the case may be, in the BofA Finance Indenture with the same effect as if it had been an original party to that indenture. As a result, the successor entity may exercise BofA Finance’s or the Company’s rights and powers under the BofA Finance Indenture, as the case may be. If BofA Finance were to merge into the Company, under the terms of the BofA Finance Indenture, the guarantee would terminate.

Waiver of Covenants

The holders of a majority in aggregate principal amount of all affected securities then outstanding under the BofA Finance Indenture may waive compliance with some of the covenants or conditions of the BofA Finance Indenture.

Modification of the BofA Finance Indenture

BofA Finance, the Company and the trustee may modify the BofA Finance Indenture and the rights of the holders of the securities with the consent of the holders of not less than a majority of the aggregate principal amount of all outstanding securities under the BofA Finance Indenture affected by the modification. However, no modification may extend the stated maturity of, reduce the principal amount or any premium of, or reduce the rate, or extend the time of payment, of interest on, any security or reduce any amount payable on redemption of any security (except in accordance with the terms of the securities) without the consent of all holders of each outstanding security affected by the modification. No modification may reduce the percentage of securities that is required to consent to modification of the BofA Finance Indenture without the consent of all holders of the securities outstanding under the BofA Finance Indenture.

In addition, BofA Finance, the Company and the trustee may execute supplemental indentures in some circumstances without the consent of any holder of outstanding securities.

For purposes of determining the aggregate principal amount of securities outstanding at any time in connection with any request, demand, authorization, direction, notice, consent or waiver under the BofA Finance Indenture, (1) the principal amount of any security issued with original issue discount is that amount that would be due and payable at that time upon declaration of acceleration following an event of default, and (2) the principal amount of securities denominated in a foreign currency or currency unit is the U.S. dollar equivalent of the security determined as described in the supplement relating to that security.

Meetings and Action by Securityholders

The trustee may call a meeting in its discretion, or upon request by BofA Finance or the holders of at least 10% in principal amount of the outstanding securities affected thereby, by giving notice. If a meeting of holders is duly held, any resolution raised or decision taken in accordance with the BofA Finance Indenture will be binding on all holders of securities affected thereby.

Events of Default and Rights of Acceleration

Under the BofA Finance Indenture, an event of default for the Step Up Callable Notes includes any one of the following events:

- default in the payment of the principal or any premium when due on the Step Up Callable Notes;
- default in the payment of interest or other amounts due (other than principal, premium, if any, or other amounts payable at maturity or upon redemption) on the Step Up Callable Notes, within 30 calendar days after the interest or other such amounts become due;
- BofA Finance's breach of any of its other covenants in the Step Up Callable Notes or in the BofA Finance Indenture that is not cured within 90 calendar days after written notice to BofA Finance by

the trustee, or to BofA Finance and the trustee by the holders of at least 25% in aggregate principal amount of all securities then outstanding under the BofA Finance Indenture and affected by the breach; or

- specified events involving BofA Finance's bankruptcy, insolvency, or liquidation.

If an event of default occurs and is continuing, either the trustee or the holders of not less than 25% in aggregate principal amount of the securities outstanding under the BofA Finance Indenture and affected by such event of default (or, in the case of an event of default under the BofA Finance Indenture relating to specified events involving BofA Finance's bankruptcy, insolvency, or liquidation, the holders of 25% in principal amount of all outstanding securities) may declare the principal amount, or, if the securities are issued with original issue discount, a specified portion of the principal amount, of all affected securities (or all securities, as the case may be) to be due and payable immediately. The holders of a majority in aggregate principal amount of the affected securities then outstanding, in some circumstances, may annul the declaration of acceleration and waive past defaults.

Collection of Indebtedness

If BofA Finance fails to pay the principal of or any premium on any securities, or if it is over 30 calendar days late on any interest payment or other amounts payable (other than principal, any premium, or other amounts payable at maturity or upon redemption) on the securities, the trustee can demand that BofA Finance pay to it, for the benefit of the holders of those securities, the amount which is due and payable on those securities, including any interest incurred because of BofA Finance's failure to make that payment. If BofA Finance fails to pay the required amount on demand, the trustee may take appropriate action, including instituting judicial proceedings against BofA Finance.

In addition, a holder of a security also may file suit to enforce BofA Finance's obligations to make payment of principal, any premium, interest, or other amounts due on that security regardless of the actions taken by the trustee.

The holders of a majority in principal amount of the affected securities then outstanding under the BofA Finance Indenture may direct the time, method and place of conducting any proceeding for any remedy available to the trustee under the BofA Finance Indenture, but the trustee will be entitled to receive from the holders indemnity reasonably satisfactory to the trustee against expenses and liabilities.

BofA Finance and the Company are required periodically to file with the trustee under the BofA Finance Indenture a certificate stating that BofA Finance or the Company, as the case may be, is not in default under any of the terms of the BofA Finance Indenture.

Limitation on Suits

The BofA Finance Indenture provides that no individual holder of securities of any series may institute any action against BofA Finance under the indenture, except actions for the payment of overdue principal, any premium, interest or other amounts due, unless the following actions have occurred:

- the holder must have previously given written notice to the trustee of a continuing event of default;
- the holders of not less than 25% in principal amount of such outstanding securities issued under the BofA Finance Indenture must have (1) requested the trustee to institute proceedings in respect of such event of default and (2) offered the trustee indemnity against liabilities incurred by the trustee for taking such action, which indemnity is reasonably satisfactory to the trustee;

- the trustee must have failed to institute proceedings within 60 days after receipt of the request referred to above;
and
- the holders of a majority in principal amount of such outstanding securities issued under the BofA Finance Indenture must not have given direction to the trustee inconsistent with the request of the holders referred to above.

However, the holder of any securities will have an absolute right to receive payment of principal of and any premium and interest or other amounts due on the securities when due and to institute suit to enforce this payment.

**THIRD AMENDMENT
TO THE
BANK OF AMERICA PENSION RESTORATION PLAN
(AS AMENDED AND RESTATED EFFECTIVE JANUARY 1, 2009)**

Instrument of Amendment

THIS INSTRUMENT OF AMENDMENT (the "Instrument") is executed by BANK OF AMERICA CORPORATION, a Delaware corporation with its principal office and place of business in Charlotte, North Carolina (the "Company").

Statement of Purpose

By this Instrument, the Company is amending the Bank of America Pension Restoration Plan (Amended and Restated Effective January 1, 2009) (the "Plan") to adjust the date of the delink calculation under the Plan. The Company has reserved the right in Section 4.1 of the Plan to amend the Plan in whole or in part, on its own behalf and on behalf of its affiliated companies that participate in the Plan.

NOW, THEREFORE, the Company hereby amends the Plan effective as of January 1, 2013:

1. Section 1.14 of the Plan is hereby amended to read in its entirety as follows:

"1.14 Delink Calculation Date

The date determined by the Global Human Resources Group that is not more than 15 days after the Participant's Termination of Employment."

IN WITNESS WHEREOF, Bank of America Corporation, on behalf of all of the Participating Employers, has caused this Instrument to be duly executed on the 26 day of March, 2013.

BANK OF AMERICA CORPORATION

By: /s/ Richard J. Hille

Richard J. Hille

Global Head of Compensation and Benefits

**FOURTH AMENDMENT
TO THE
BANK OF AMERICA PENSION RESTORATION PLAN
(AS AMENDED AND RESTATED EFFECTIVE JANUARY 1, 2009)**

Instrument of Amendment

THIS INSTRUMENT OF AMENDMENT (the “Instrument”) is executed by BANK OF AMERICA CORPORATION, a Delaware corporation with its principal office and place of business in Charlotte, North Carolina (the “Company”).

Statement of Purpose

By this Instrument, the Company is amending the Bank of America Pension Restoration Plan (Amended and Restated Effective January 1, 2009) (the “Plan”) to reflect relevant changes resulting from the merger of The Bank of America Pension Plan for Legacy Companies into The Bank of America Pension Plan. The Company has reserved the right in Section 4.1 of the Plan to amend the Plan in whole or in part, on its own behalf and on behalf of its affiliated companies that participate in the Plan.

NOW THEREFORE, the Company hereby amends the Plan effective as of September 1, 2013:

1. Section 1.3 of the Plan is hereby amended to read in its entirety as follows:

“1.3 Basic Plan

Before September 1, 2013, The Bank of America Pension Plan, and on and after September 1, 2013, The Bank of America Pension Plan for Legacy Bank of America, a component document of The Bank of America Pension Plan, each as in effect from time to time.”

IN WITNESS WHEREOF, Bank of America Corporation, on behalf of all of the Participating Employers, has caused this Instrument to be duly executed on the 22 day of August, 2013.

BANK OF AMERICA CORPORATION

By: /s/ Richard J. Hille
Richard J. Hille
Global Head of Compensation and Benefits

**FIFTH AMENDMENT
TO THE
BANK OF AMERICA PENSION RESTORATION PLAN
(AS AMENDED AND RESTATED EFFECTIVE JANUARY 1, 2009)**

Instrument of Amendment

THIS INSTRUMENT OF AMENDMENT (the “Instrument”) is executed by BANK OF AMERICA CORPORATION, a Delaware corporation with its principal office and place of business in Charlotte, North Carolina (the “Company”).

Statement of Purpose

The Company sponsors the Bank of America Pension Restoration Plan (the “Plan”) for the benefit of its eligible employees and the eligible employees of its affiliated companies that participate in the Plan. The provisions of the Plan are currently set forth in an instrument of the Company dated November 24, 2008, which amended and restated the Plan effective January 1, 2009, and four subsequent amendments. The Company has reserved the right in Section 4.1 of the Plan to amend the Plan in whole or in part, on its own behalf and on behalf of its affiliated companies that participate in the Plan. By this Instrument, the Company is further amending the Plan to reflect (i) the suspension of a participant’s or beneficiary’s ability to direct the notional investment of the portion, if any, of the participant’s or beneficiary’s Plan account attributable to credits made before January 1, 2008, while the participant or beneficiary resides in Canada and (ii) the ability to continue to direct the notional investment of the portion, if any, of a participant’s Plan account attributable to credits made before January 1, 2008 following the participant’s delink calculation date or death.

NOW, THEREFORE, the Company hereby amends the Plan to be effective as provided herein.

1. Effective as of September 2, 2014, the first phrase before the first comma in the first sentence of Section 2.3(b) of the Plan is hereby amended to read in its entirety as follows:

“Except as otherwise provided in subsections (d), (e) and (f) of this Section”

2. Effective as of September 2, 2014, a new subsection (f) is hereby added to Section 2.3 of the Plan to read in its entirety as follows:

“(f) **Residents of Canada:** Notwithstanding any provision of the Restoration Plan to the contrary and in accordance with policies and procedures established by the Global Human Resources Group from time to time, if a Participant resides in Canada, such Participant shall not be permitted to designate the investment vehicle(s) in which the portion of the Participant's Restoration Account attributable to Restoration Credits made before January 1, 2008, if any, shall be deemed to be invested, and any such portion of the Participant’s Restoration Account shall be adjusted instead from time to time at such intervals as determined by the Global Human Resources Group based on a 10% annual rate of return, for the duration of the Participant’s residence in Canada.

The Global Human Resources Group may determine the frequency of such adjustments by reference to the frequency of account adjustments under another plan sponsored by a Participating Employer. If and when a Participant first commences residing in Canada, any prior designation of investment vehicle(s) previously made by the Participant shall be canceled, including any prior deemed investment in the Restoration Plan's default investment vehicle described in Section 2.3(c) for any Participant who failed to provide investment instructions pursuant to Section 2.3(c), and the portion of the Participant's Restoration Account attributable to Restoration Credits made before January 1, 2008, if any, shall be adjusted based on a 10% annual rate of return as described in this subsection. If and when such Participant changes the Participant's residence and no longer resides in Canada, the Participant shall again be permitted to designate the investment vehicle(s) in which the portion of the Participant's Restoration Account attributable to Restoration Credits made before January 1, 2008, if any, shall be deemed to be invested pursuant to Section 2.3(c) and any other applicable provisions of the Restoration Plan, and unless and until the Participant affirmatively makes such a designation, such portion of the Participant's Restoration Account shall be deemed to be invested in the default investment vehicle described in Section 2.3(c). The provisions of this subsection also apply to a Participant's Beneficiary following the Participant's death and before the final payment of the directable portion, if any, of the Participant's Restoration Plan Benefit to the Participant's Beneficiary, if such Beneficiary resides in Canada, and the uses of the term "Participant" in the preceding sentences of this subsection shall be read to also mean "Beneficiary," as applicable. For the avoidance of doubt, with respect to a Participant or Beneficiary described in this subsection, the provisions of this subsection shall control the adjustment of the portion of such Participant's Restoration Account attributable to Restoration Credits made before January 1, 2008, if any, notwithstanding any provision of Sections 2.4(d)(i) and 2.7(c) to the contrary."

3. Effective as of December 31, 2014, Section 2.4(d)(i)(B) of the Plan is hereby amended to read in its entirety as follows:

"(B) For the portion of a Participant's Restoration Account attributable to Restoration Credits made before January 1, 2008, if any, except as otherwise provided in Section 2.3(f), the Participant shall continue to be eligible to elect from among the available deemed investment vehicles pursuant to Section 2.3 through the last business day immediately preceding complete distribution of the Restoration Plan Benefit."

4. Effective as of December 31, 2014, Section 2.4(d)(i)(C) of the Plan is hereby deleted from the Plan in its entirety.

5. Effective as of December 31, 2014, the last sentence in Section 2.7(c) of the Plan is hereby amended to read in its entirety as follows:

"With respect to the directable portion, if any, of the Restoration Plan Benefit, except as otherwise provided in Section 2.3(f), the Beneficiary shall continue to be able to elect from among the available deemed investment vehicles pursuant to Section 2.3 through the last business day immediately preceding the final payment of the Restoration Plan Benefit."

IN WITNESS WHEREOF, the Company, on behalf of all of the Participating Employers, has caused this Instrument to be duly executed on the 5 day of December 2014.

BANK OF AMERICA CORPORATION

By: /s/ Richard J. Hille

Richard J. Hille
Global Head of Compensation and Benefits

**SIXTH AMENDMENT
TO THE
BANK OF AMERICA PENSION RESTORATION PLAN
(AS AMENDED AND RESTATED EFFECTIVE JANUARY 1, 2009)**

Instrument of Amendment

THIS INSTRUMENT OF AMENDMENT (the “Instrument”) is executed by BANK OF AMERICA CORPORATION, a Delaware corporation with its principal office and place of business in Charlotte, North Carolina (the “Company”).

Statement of Purpose

The Company sponsors the Bank of America Pension Restoration Plan (the “Plan”) for the benefit of its eligible employees and the eligible employees of its affiliated companies that participate in the Plan. The provisions of the Plan are currently set forth in an instrument of the Company dated November 24, 2008, which amended and restated the Plan effective January 1, 2009, and five subsequent amendments thereto. The Company has reserved the right in Section 4.1 of the Plan to amend the Plan in whole or in part, on its own behalf and on behalf of its affiliated companies that participate in the Plan. By this Instrument, the Company is further amending the Plan to reflect the treatment of distributions that remain outstanding for long periods of time.

NOW THEREFORE, the Company hereby further amends the Plan effective as of January 1, 2017, as follows:

1. The Plan hereby adopts the Bank of America Stale Check Forfeiture Policy For Certain Nonqualified Retirement and Deferred Compensation Plans and is hereby amended by adding the following as a new Appendix A:

APPENDIX A

**Bank of America Stale Check Forfeiture Policy
For Certain Nonqualified Retirement and Deferred Compensation Plans**

Introduction

Bank of America Corporation (the “Company”) and its subsidiaries sponsor certain nonqualified retirement and deferred compensation plans for the benefit of eligible employees and nonemployee directors (the “Plans”). The Plans are maintained primarily for the benefit of a select group of management or highly compensated employees.

Each of the Plans makes payment of certain benefits thereunder in cash by check or by direct deposit. If the issuance is in the form of check, the check generally remains outstanding until the applicable payee (e.g., a

participant) negotiates such check. The purpose of this Bank of America Stale Check Forfeiture Policy For Certain Nonqualified Retirement and Deferred Compensation Plans (“Stale Check Policy”) is to document the procedures which will apply in the event that a check remains outstanding for lengthy periods of time beyond the period in which it goes “stale” (i.e., non-negotiable) due to an applicable payee failing to negotiate such check after distribution. This Stale Check Policy shall only apply to those Plans that specifically adopt the policy through amendment of the applicable Plan. The provisions of this Stale Check Policy apply to the Plans except to the extent that a specific provision of a Plan expressly provides otherwise or makes the application of this Stale Check Policy not feasible, as determined by the Global HR Group in its sole discretion.

Plan Terms

If the Plan commences a distribution to a participant or a beneficiary (or other payee, as applicable) (the “Payee”) and the payment of such distribution is a check payable to such Payee, the amount of the benefit shall be reported as income to the Payee in the year of the distribution and appropriate taxes shall be withheld, as required by applicable law. The benefit payable to the Payee shall continue to be maintained as an outstanding distribution until the earlier of (i) the date the Payee entitled to the benefit negotiates the outstanding check, or (ii) any reasonable date determined in the sole discretion of Global HR Group (generally, prior to the time such benefit would otherwise escheat under any applicable law), provided that, in all events, such date shall be no earlier than 18 months after such distribution is processed. As of such date, the net amount of the stale check shall be forfeited back to the Company’s general assets.

Should the Payee, or any authorized representative of such Payee, subsequently make application for benefits, the amount so forfeited shall be paid to the Payee (net of any prior tax withholdings), provided that if there is a dispute regarding eligibility or benefits (either form or amount or both), such disputed payments will be made only if it is established to the Global HR Group in their sole discretion that the amounts were in fact due to such Payee.

Global HR Group

Administration

The Company's Global HR Group shall be empowered to interpret the provisions of this Stale Check Policy. The Global HR Group may adopt such rules and regulations for the administration of this Stale Check Policy as are consistent with the terms hereof and shall keep adequate records of its proceedings and acts. All interpretations and decisions made (both as to law and fact) and other action taken by the Global HR Group with respect to the Stale Check Policy shall be conclusive and binding upon all parties having or claiming to have an interest under any plan subject to the Stale Check Policy. Not in limitation of the foregoing, the Global HR Group shall have the discretion to decide any factual or interpretative issues that may arise in connection with the Stale Check Policy, and the Global HR Group’s exercise of such discretion shall be conclusive and binding on all affected parties as long as it is not arbitrary or capricious. The Global HR Group may delegate any of its duties and powers hereunder to the extent permitted by applicable law.

Amendment and Termination

Subject to the requirements of applicable law, the Global HR Group shall have the right and power at any time and from time to time to amend this Stale Check Policy in whole or in part, including, without limitation, the list of plans covered hereby, and at any time to terminate this Stale Check Policy.

2. Except as expressly or by necessary implication amended hereby, the Plan shall continue in full force and effect.

IN WITNESS WHEREOF, the Company, on behalf of all of the Participating Employers, has caused this Instrument to be duly executed on the 15 day of December, 2016.

BANK OF AMERICA CORPORATION

By: /s/ Richard J. Hille

Richard J. Hille

Global Head of Compensation and Benefits

**THIRD AMENDMENT
TO THE
BANK OF AMERICA DEFERRED COMPENSATION PLAN
(AS AMENDED AND RESTATED EFFECTIVE JANUARY 1, 2015)**

Instrument of Amendment

THIS INSTRUMENT OF AMENDMENT (the “Instrument”) is executed by BANK OF AMERICA CORPORATION, a Delaware corporation with its principal office and place of business in Charlotte, North Carolina (the “Company”).

Statement of Purpose

The Company sponsors the Bank of America Deferred Compensation Plan (f/k/a the Bank of America 401(k) Restoration Plan) (the “Plan”) for the benefit of its eligible employees and the eligible employees of its affiliated companies that participate in the Plan. The provisions of the Plan are currently set forth in an instrument of the Company dated December 5, 2014, which amended and restated the Plan effective January 1, 2015, and by two subsequent amendments. The Company has reserved the right in Section 4.1 of the Plan to amend the Plan in whole or in part, on its own behalf and on behalf of its affiliated companies that participate in the Plan. By this Instrument, the Company is amending the Plan to reflect the elimination of the suspension of deferrals following a hardship distribution from a 401(k) plan maintained by the Company or an affiliated company.

NOW, THEREFORE, the Company hereby further amends the Plan to be effective as of January 1, 2020:

1. Section 2.2(f) of the Plan is hereby amended to read, in its entirety, as follows:

- “(f) **Irrevocability of Deferral Elections:** All deferral elections made or deemed to be made, as applicable, pursuant to this Section shall be irrevocable for the Plan Year; provided, however, if an Eligible Employee receives a hardship distribution from the 401(k) Plan (or any other Code Section 401(k) plan maintained by the Corporation or any Affiliated Group Member) pursuant to Treas. Reg. Section 1.401(k)-1(d)(3) prior to January 1, 2020: (i) the Eligible Employee shall not be entitled to defer any Base Salary or Eligible Incentive Award pursuant to the Restoration Plan during the 6- month period beginning upon the Eligible Employee’s receipt of the hardship distribution (such period, the “Suspension Period”), (ii) any existing election by the Eligible Employee to defer Base Salary or an Eligible Incentive Award under the Restoration Plan shall be cancelled, in accordance with Treas. Reg. Section 1.409A-3(j)(4)(viii), to the extent necessary to prohibit such deferrals during the Suspension Period, and (iii) no subsequent election by the Eligible Employee to defer Base Salary or an Eligible Incentive Award pursuant to the Restoration Plan shall become effective prior to the end of the Suspension Period. Notwithstanding the preceding sentence, any Suspension Period that is in effect on January 1, 2020 shall end on such date, and any existing election by the Eligible Employee to defer Base
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Salary or an Eligible Incentive Award under the Restoration Plan during the balance of such Suspension Period shall be restored and become effective (including without limitation and for the avoidance of doubt any election to defer an Eligible Incentive Award earned for the 2019 Plan Year that is paid during the 2020 Plan Year). If an Eligible Employee receives a hardship distribution on or after January 1, 2020, such distribution shall not result in a Suspension Period and shall not otherwise impact any existing deferral elections in place with respect to the Eligible Employee.”

2. Except as expressly or by necessary implication amended hereby, the Plan shall continue in full force and effect.

IN WITNESS WHEREOF, the Company, on behalf of all Participating Employers in the Plan, has caused this Instrument to be duly executed on December 13, 2019.

BANK OF AMERICA CORPORATION

By: /s/ Christopher J. Fabro

Christopher J. Fabro

Global Compensation & Benefits Executive

Bank of America Corporation

Direct and Indirect Subsidiaries of Bank of America Corporation
As of December 31, 2019

Name	Location	Jurisdiction
BA Continuum India Private Limited	Hyderabad, India	India
BA Credit Card Funding, LLC	Charlotte, NC	Delaware
BA Electronic Data Processing (Guangzhou) Ltd.	Guangzhou, PRC	People's Republic of China
BAC Canada Finance Company	Toronto, Ontario, Canada	Canada
BAC North America Holding Company	Charlotte, NC	Delaware
BAL Investment & Advisory, Inc.	San Francisco, CA	Delaware
BAMS Solutions, Inc.	Louisville, KY	Ohio
Banc of America FSC Holdings, Inc.	San Francisco, CA	Delaware
Banc of America Leasing & Capital, LLC	San Francisco, CA	Delaware
Banc of America Preferred Funding Corporation	Charlotte, NC	Delaware
Banc of America Public Capital Corp	Charlotte, NC	Kansas
Banc of America Securities Asia Limited	Hong Kong, PRC	Hong Kong
Bank of America California, National Association	San Francisco, CA	United States of America
Bank of America Custodial Services (Ireland) Limited	Dublin, Ireland	Ireland
Bank of America Malaysia Berhad	Kuala Lumpur, Malaysia	Malaysia
Bank of America Merrill Lynch Banco Múltiplo S.A.	Sao Paulo, Brazil	Brazil
Bank of America Merrill Lynch International Designated Activity Company	Dublin, Ireland	Ireland
Bank of America Mexico, S.A., Institucion de Banca Multiple	Mexico City, Mexico	Mexico
Bank of America, National Association	Charlotte, NC	United States of America
Bank of America Singapore Limited	Singapore, Singapore	Singapore
BankAmerica International Financial Corporation	San Francisco, CA	United States of America
Blue Ridge Investments, L.L.C.	Charlotte, NC	Delaware
BofA Finance LLC	Charlotte, NC	Delaware
BofA Securities Europe SA	Paris, France	France
BofA Securities, Inc.	New York, NY	Delaware
BofAML EMEA Funding Limited	St. Helier, Jersey	Jersey
BofAML Jersey Holdings Limited	St. Helier, Jersey	Jersey
Countrywide Financial Corporation	Calabasas, CA	Delaware
Countrywide Home Loans, Inc.	Calabasas, CA	New York
DSP Merrill Lynch Limited	Mumbai, India	India
Financial Data Services, LLC	Jacksonville, FL	Florida
Managed Account Advisors LLC	Jersey City, NJ	Delaware
Merrill Lynch (Asia Pacific) Limited	Hong Kong, PRC	Hong Kong
Merrill Lynch (Australia) Futures Limited	Sydney, Australia	Australia
Merrill Lynch (Singapore) Pte. Ltd.	Singapore, Singapore	Singapore
Merrill Lynch Argentina S.A.	Capital Federal, Argentina	Argentina
Merrill Lynch B.V.	Amsterdam, Netherlands	Netherlands
Merrill Lynch Bank and Trust Company (Cayman) Limited	George Town, Grand Cayman, Cayman Is.	Cayman Islands
Merrill Lynch Canada Inc.	Toronto, Ontario, Canada	Canada
Merrill Lynch Capital Markets España, S.A., S.V.	Madrid, Spain	Spain
Merrill Lynch Capital Services, Inc.	New York, NY	Delaware
Merrill Lynch Commodities Canada, ULC	Toronto, Ontario, Canada	Canada
Merrill Lynch Commodities, Inc.	Houston, TX	Delaware
Merrill Lynch Corredores de Bolsa SpA	Santiago, Chile	Chile
Merrill Lynch Credit Reinsurance Limited	Hamilton, Bermuda	Bermuda
Merrill Lynch Derivative Products AG	Zurich, Switzerland	Switzerland
Merrill Lynch Equities (Australia) Limited	Sydney, Australia	Australia
Merrill Lynch Equity S.à r.l.	Luxembourg, Luxembourg	Luxembourg
Merrill Lynch Far East Limited	Hong Kong, PRC	Hong Kong
Merrill Lynch Global Services Pte. Ltd.	Singapore, Singapore	Singapore
Merrill Lynch International	London, U.K.	United Kingdom
Merrill Lynch International & Co. C.V.	Curacao, Netherlands Antilles	Curacao
Merrill Lynch International, LLC	New York, NY	Delaware
Merrill Lynch Israel Ltd.	Tel Aviv, Israel	Israel
Merrill Lynch Japan Finance GK	Tokyo, Japan	Japan
	Tokyo, Japan	
Merrill Lynch Japan Securities Co., Ltd.		Japan
Merrill Lynch Luxembourg Finance S.A.	Luxembourg, Luxembourg	Luxembourg
Merrill Lynch Malaysian Advisory Sdn. Bhd.	Kuala Lumpur, Malaysia	Malaysia
Merrill Lynch Markets (Australia) Pty. Limited	Sydney, Australia	Australia
Merrill Lynch Markets Singapore Pte. Ltd.	Singapore, Singapore	Singapore
Merrill Lynch Mexico, S.A. de C.V., Casa de Bolsa	Mexico City, Mexico	Mexico
Merrill Lynch Professional Clearing Corp.	New York, NY	Delaware
Merrill Lynch Reinsurance Solutions LTD	Hamilton, Bermuda	Bermuda
Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários	Sao Paulo, Brazil	Brazil
Merrill Lynch Securities (Taiwan) Ltd.	Taipei, Taiwan	Taiwan
Merrill Lynch Securities (Thailand) Limited	Bangkok, Thailand	Thailand

Merrill Lynch South Africa Proprietary Limited	Gauteng, South Africa	South Africa
Merrill Lynch Yatirim Bank A.S.	Istanbul, Turkey	Turkey
Merrill Lynch, Kingdom of Saudi Arabia Company	Kingdom of Saudi Arabia	Saudi Arabia
Merrill Lynch, Pierce, Fenner & Smith Incorporated	New York, NY	Delaware
ML UK Capital Holdings Limited	London, U.K.	United Kingdom
Mortgages 1 Limited	London, U.K.	United Kingdom
Mortgages plc	London, U.K.	United Kingdom
NB Holdings Corporation	Charlotte, NC	Delaware
OOO Merrill Lynch Securities	Moscow, Russia	Russia Federation
PT Merrill Lynch Sekuritas Indonesia	Jakarta, Indonesia	Indonesia
ReconTrust Company, National Association	Simi Valley, CA	United States of America
U.S. Trust Company of Delaware	Wilmington, DE	Delaware
Wave Lending Limited	London, U.K.	United Kingdom

Pursuant to Item 601(b)(21)(ii) of Regulation S-K, the names of certain other subsidiaries of Bank of America Corporation are omitted. These subsidiaries, considered in the aggregate, would not constitute a "significant subsidiary" under SEC rules.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-3 (Nos. 333-224523 and 333-234425) and on Form S-8 (Nos. 333-212376; 333-204453; 333-167797; 333-157085; 333-133566; 333-121513; 333-102043; 333-234780; and 333-231107) of Bank of America Corporation of our report dated February 19, 2020 relating to the financial statements and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

Price WaterhouseCoopers LLP

Charlotte, North Carolina
February 19, 2020

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each of the several undersigned officers and directors whose signatures appear below, hereby makes, constitutes and appoints David G. Leitch and Ross E. Jeffries, Jr., and each of them acting individually, his or her true and lawful attorneys with power to act without any other and with full power of substitution, to prepare, execute, deliver and file in his or her name and on his or her behalf, and in each of the undersigned officer's and director's capacity or capacities as shown below, an Annual Report on Form 10-K for the year ended December 31, 2019, and all exhibits thereto and all documents in support thereof or supplemental thereto, and any and all amendments or supplements to the foregoing, hereby ratifying and confirming all acts and things which said attorneys or attorney might do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, each of the undersigned officers and directors, in the capacity or capacities noted, has hereunto set his or her hand as of the date indicated below.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Brian T. Moynihan</u> Brian T. Moynihan	Chief Executive Officer, Chairman and Director (Principal Executive Officer)	February 19, 2020
<u>/s/ Paul M. Donofrio</u> Paul M. Donofrio	Chief Financial Officer (Principal Financial Officer)	February 19, 2020
<u>/s/ Rudolf A. Bless</u> Rudolf A. Bless	Chief Accounting Officer (Principal Accounting Officer)	February 19, 2020
<u>/s/ Sharon L. Allen</u> Sharon L. Allen	Director	February 19, 2020
<u>/s/ Susan S. Bies</u> Susan S. Bies	Director	February 19, 2020
<u>/s/ Jack O. Bovender, Jr.</u> Jack O. Bovender, Jr.	Director	February 19, 2020
<u>/s/ Frank P. Bramble, Sr.</u> Frank P. Bramble, Sr.	Director	February 19, 2020
<u>/s/ Pierre J.P. de Weck</u> Pierre J.P. de Weck	Director	February 12, 2020
<u>/s/ Arnold W. Donald</u> Arnold W. Donald	Director	February 19, 2020
<u>/s/ Linda P. Hudson</u> Linda P. Hudson	Director	February 19, 2020

<u>/s/ Monica C. Lozano</u> Monica C. Lozano	Director	February 19, 2020
<u>/s/ Thomas J. May</u> Thomas J. May	Director	February 19, 2020
<u>/s/ Lionel L. Nowell, III</u> Lionel L. Nowell, III	Director	February 19, 2020
<u>/s/ Clayton S. Rose</u> Clayton S. Rose	Director	February 19, 2020
<u>/s/ Michael D. White</u> Michael D. White	Director	February 19, 2020
<u>/s/ Thomas D. Woods</u> Thomas D. Woods	Director	February 19, 2020
<u>/s/ R. David Yost</u> R. David Yost	Director	February 19, 2020
<u>/s/ Maria T. Zuber</u> Maria T. Zuber	Director	February 13, 2020

**CERTIFICATION PURSUANT TO SECTION 302
OF THE SARBANES-OXLEY ACT OF 2002
FOR THE CHIEF EXECUTIVE OFFICER**

I, Brian T. Moynihan, certify that:

1. I have reviewed this Annual Report on Form 10-K of Bank of America Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 19, 2020

/s/ Brian T. Moynihan
Brian T. Moynihan
Chief Executive Officer

**CERTIFICATION PURSUANT TO SECTION 302
OF THE SARBANES-OXLEY ACT OF 2002
FOR THE CHIEF FINANCIAL OFFICER**

I, Paul M. Donofrio, certify that:

1. I have reviewed this Annual Report on Form 10-K of Bank of America Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 19, 2020

/s/ Paul M. Donofrio
Paul M. Donofrio
Chief Financial Officer

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO SECTION 906
OF THE SARBANES-OXLEY ACT OF 2002**

I, Brian T. Moynihan, state and attest that:

1. I am the Chief Executive Officer of Bank of America Corporation (the registrant).
2. I hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:
 - the Annual Report on Form 10-K of the registrant for the year ended December 31, 2019 (the periodic report) containing financial statements fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
 - the information contained in the periodic report fairly presents, in all material respects, the financial condition and results of operations of the registrant.

Date: February 19, 2020

/s/ Brian T. Moynihan
Brian T. Moynihan
Chief Executive Officer

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO SECTION 906
OF THE SARBANES-OXLEY ACT OF 2002**

I, Paul M. Donofrio, state and attest that:

1. I am the Chief Financial Officer of Bank of America Corporation (the registrant).
2. I hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:
 - the Annual Report on Form 10-K of the registrant for the year ended December 31, 2019 (the periodic report) containing financial statements fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
 - the information contained in the periodic report fairly presents, in all material respects, the financial condition and results of operations of the registrant.

Date: February 19, 2020

/s/ Paul M. Donofrio
Paul M. Donofrio
Chief Financial Officer