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Form 10-K

February 08, 2019

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us-gaap:OtherPostretirementBenefitPlansDefinedBenefitMember 2017-12-31 0000012927
us-gaap:PensionPlansDefinedBenefitMember 2018-01-01 2018-12-31 0000012927
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ba:UnallocateditemseliminationsandotherMember us-gaap:OtherPostretirementBenefitPlansDefinedBenefitMember
2017-01-01 2017-12-31 0000012927 ba:UnallocateditemseliminationsandotherMember
us-gaap:OtherPostretirementBenefitPlansDefinedBenefitMember 2018-01-01 2018-12-31 0000012927 2018-01-01
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ba:KC46ATankerMember 2018-07-01 2018-09-30 0000012927 2016-10-01 2016-12-31 0000012927
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xbrli:shares iso4217:USD xbrli:shares xbrli:pure iso4217:USD ba:segments ba:aircraft

**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, 2018

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 1-442

THE BOEING COMPANY

(Exact name of registrant as specified in its charter)

Delaware 91-0425694

State or other jurisdiction of incorporation or organization (I.R.S. Employer Identification No.)

100 N. Riverside Plaza, Chicago, IL 60606-1596

(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code (312) 544-2000

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

Common Stock, \$5 par value New York Stock Exchange
(Title of each class) (Name of each exchange on which registered)

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 if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§ 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. Yes No

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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, 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 Exchange Act). Yes No

As of June 30, 2018, there were 575,883,680 common shares outstanding held by nonaffiliates of the registrant, and the aggregate market value of the common shares (based upon the closing price of these shares on the New York Stock Exchange) was approximately \$193.2 billion.

The number of shares of the registrant's common stock outstanding as of February 1, 2019 was 564,985,109.

DOCUMENTS INCORPORATED BY REFERENCE

Part III incorporates information by reference to the registrant's definitive proxy statement, to be filed with the Securities and Exchange Commission within 120 days after the close of the fiscal year ended December 31, 2018.

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PART I

Item 1. Business

The Boeing Company, together with its subsidiaries (herein referred to as “Boeing,” the “Company,” “we,” “us,” “our”), is one of the world’s major aerospace firms.

We are organized based on the products and services we offer. We operate in four reportable segments:

Commercial Airplanes (BCA);

Defense, Space & Security (BDS);

Global Services (BGS);

Boeing Capital (BCC).

Commercial Airplanes Segment

This segment develops, produces and markets commercial jet aircraft and provides fleet support services, principally to the commercial airline industry worldwide. We are a leading producer of commercial aircraft and offer a family of commercial jetliners designed to meet a broad spectrum of global passenger and cargo requirements of airlines. This family of commercial jet aircraft in production includes the 737 narrow-body model and the 747, 767, 777 and 787 wide-body models. Development continues on certain 737 MAX derivatives and the 777X program.

Defense, Space & Security Segment

This segment is engaged in the research, development, production and modification of manned and unmanned military aircraft and weapons systems for strike, surveillance and mobility, including fighter and trainer aircraft; vertical lift, including rotorcraft and tilt-rotor aircraft; and commercial derivative aircraft, including anti-submarine and tanker aircraft. In addition, this segment is engaged in the research, development, production and modification of the following products and related services: strategic defense and intelligence systems, including strategic missile and defense systems, command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR), cyber and information solutions, and intelligence systems; satellite systems, including government and commercial satellites and space exploration.

BDS' primary customer is the United States Department of Defense (U.S. DoD). Revenues from the U.S. DoD, including foreign military sales through the U.S. government, accounted for approximately 86% of its 2018 revenues. Other significant BDS customers include the National Aeronautics and Space Administration (NASA) and customers in international defense, civil and commercial satellite markets.

This segment's primary products include the following fixed-wing military aircraft: F/A-18E/F Super Hornet, F-15 Strike Eagle, P-8 programs, KC-46A Tanker, and T-X Trainer. This segment produces rotorcraft and rotary-wing programs, such as CH-47 Chinook, AH-64 Apache, and V-22 Osprey. In addition, this segment's products include space and missile systems including: government and commercial satellites, the International Space Station, Commercial Crew, missile defense and weapons programs, and Joint Direct Attack Munition, as well as the United Launch Alliance joint venture.

Global Services Segment

This segment provides services to our commercial and defense customers worldwide. BGS sustains aerospace platforms and systems with a full spectrum of products and services, including supply chain and logistics management, engineering, maintenance and modifications, upgrades and conversions, spare

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parts, pilot and maintenance training systems and services, technical and maintenance documents, and data analytics and digital services.

Boeing Capital Segment

BCC seeks to ensure that Boeing customers have the financing they need to buy and take delivery of their Boeing product and manages overall financing exposure. BCC's portfolio consists of equipment under operating leases, finance leases, notes and other receivables, assets held for sale or re-lease and investments.

Intellectual Property

We own numerous patents and have licenses for the use of patents owned by others, which relate to our products and their manufacture. In addition to owning a large portfolio of intellectual property, we also license intellectual property to and from third parties. For example, the U.S. government has licenses in our patents that are developed in performance of government contracts, and it may use or authorize others to use the inventions covered by such patents for government purposes. Unpatented research, development and engineering skills, as well as certain trademarks, trade secrets, and other intellectual property rights, also make an important contribution to our business. While our intellectual property rights in the aggregate are important to the operation of each of our businesses, we do not believe that our business would be materially affected by the expiration of any particular intellectual property right or termination of any particular intellectual property patent license agreement.

Employees

Total workforce level at December 31, 2018 was approximately 153,000. As of December 31, 2018, our principal collective bargaining agreements were with the following unions:

Union	Percent of our Employees Represented	Status of the Agreements with Major Union
The International Association of Machinists and Aerospace Workers (IAM)	22%	We have two major agreements; one expiring in June 2022 and one in September 2024.
The Society of Professional Engineering Employees in Aerospace (SPEEA)	11%	We have two major agreements expiring in October 2022.
The United Automobile, Aerospace and Agricultural Implement Workers of America (UAW)	1%	We have one major agreement expiring in October 2022.

Competition

The commercial jet aircraft market and the airline industry remain extremely competitive. We face aggressive international competitors who are intent on increasing their market share, such as Airbus and other entrants from Russia, China and Japan. We are focused on improving our processes and continuing cost reduction efforts. We intend to continue to compete with other airplane manufacturers by providing customers with greater value products.

BDS faces strong competition in all market segments, primarily from Lockheed Martin Corporation, Northrop Grumman Corporation, Raytheon Company, General Dynamics Corporation and SpaceX. Non-U.S. companies such as BAE Systems and Airbus Group continue to build a strategic presence in the U.S.

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market by strengthening their North American operations and partnering with U.S. defense companies. In addition, certain competitors have occasionally formed teams with other competitors to address specific customer requirements. BDS expects the trend of strong competition to continue into 2019.

The commercial and defense services market is an extremely challenging landscape made up of many of the same strong U.S. and non-U.S. competitors facing BCA and BDS along with other competitors in those markets. BGS leverages our extensive services network offering products and services which span the life cycle of our defense and commercial airplane programs: training, fleet services and logistics, maintenance and engineering, modifications and upgrades - as well as the daily cycle of gate-to-gate operations. BGS expects the market to remain highly competitive in 2019, and intends to grow market share by leveraging a high level of customer satisfaction and productivity.

Regulatory Matters

Our businesses are heavily regulated in most of our markets. We deal with numerous U.S. government agencies and entities, including but not limited to all of the branches of the U.S. military, NASA, the Federal Aviation Administration (FAA) and the Department of Homeland Security. Similar government authorities exist in our non-U.S. markets.

Government Contracts. The U.S. government, and other governments, may terminate any of our government contracts at their convenience, as well as for default based on our failure to meet specified performance requirements. If any of our U.S. government contracts were to be terminated for convenience, we generally would be entitled to receive payment for work completed and allowable termination or cancellation costs. If any of our government contracts were to be terminated for default, generally the U.S. government would pay only for the work that has been accepted and could require us to pay the difference between the original contract price and the cost to re-procure the contract items, net of the work accepted from the original contract. The U.S. government can also hold us liable for damages resulting from the default.

Commercial Aircraft. In the U.S., our commercial aircraft products are required to comply with FAA regulations governing production and quality systems, airworthiness and installation approvals, repair procedures and continuing operational safety. Outside the U.S., similar requirements exist for airworthiness, installation and operational approvals. These requirements are generally administered by the national aviation authorities of each country and, in the case of Europe, coordinated by the European Joint Aviation Authorities.

Environmental. We are subject to various federal, state, local and non-U.S. laws and regulations relating to environmental protection, including the discharge, treatment, storage, disposal and remediation of hazardous substances and wastes. We continually assess our compliance status and management of environmental matters to ensure our operations are in compliance with all applicable environmental laws and regulations. Investigation, remediation, and operation and maintenance costs associated with environmental compliance and management of sites are a normal, recurring part of our operations. These costs often are allowable costs under our contracts with the U.S. government. It is reasonably possible that costs incurred to ensure continued environmental compliance could have a material impact on our results of operations, financial condition or cash flows if additional work requirements or more stringent clean-up standards are imposed by regulators, new areas of soil, air and groundwater contamination are discovered and/or expansions of work scope are prompted by the results of investigations.

A Potentially Responsible Party (PRP) has joint and several liability under existing U.S. environmental laws. Where we have been designated a PRP by the Environmental Protection Agency or a state environmental agency, we are potentially liable to the government or third parties for the full cost of remediating contamination at our facilities or former facilities or at third-party sites. If we were required to fully fund the remediation of a site for which we were originally assigned a partial share, the statutory

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framework would allow us to pursue rights to contribution from other PRPs. For additional information relating to environmental contingencies, see Note 14 to our Consolidated Financial Statements.

Non-U.S. Sales. Our non-U.S. sales are subject to both U.S. and non-U.S. governmental regulations and procurement policies and practices, including regulations relating to import-export control, tariffs, investment, exchange controls, anti-corruption, and repatriation of earnings. Non-U.S. sales are also subject to varying currency, political and economic risks.

Raw Materials, Parts, and Subassemblies

We are highly dependent on the availability of essential materials, parts and subassemblies from our suppliers and subcontractors. The most important raw materials required for our aerospace products are aluminum (sheet, plate, forgings and extrusions), titanium (sheet, plate, forgings and extrusions) and composites (including carbon and boron). Although alternative sources generally exist for these raw materials, qualification of the sources could take a year or more. Many major components and product equipment items are procured or subcontracted on a sole-source basis with a number of companies.

Suppliers

We are dependent upon the ability of a large number of U.S. and non-U.S. suppliers and subcontractors to meet performance specifications, quality standards and delivery schedules at our anticipated costs. While we maintain an extensive qualification and performance surveillance system to control risk associated with such reliance on third parties, failure of suppliers or subcontractors to meet commitments could adversely affect production schedules and program/contract profitability, thereby jeopardizing our ability to fulfill commitments to our customers. We are also dependent on the availability of energy sources, such as electricity, at affordable prices.

Seasonality

No material portion of our business is considered to be seasonal.

Executive Officers of the Registrant

See "Item 10. Directors, Executive Officers and Corporate Governance" in Part III.

Other Information

Boeing was originally incorporated in the State of Washington in 1916 and reincorporated in Delaware in 1934. Our principal executive offices are located at 100 N. Riverside Plaza, Chicago, Illinois 60606 and our telephone number is (312) 544-2000.

General information about us can be found at www.boeing.com. The information contained on or connected to our website is not incorporated by reference into this Annual Report on Form 10-K and should not be considered part of this or any other report filed with the Securities and Exchange Commission (SEC). Our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, as well as any amendments to those reports, are available free of charge through our website as soon as reasonably practicable after we file them with, or furnish them to, the SEC. The SEC maintains a website at www.sec.gov that contains reports, proxy statements and other information regarding SEC registrants, including Boeing.

Table of Contents**Forward-Looking Statements**

This report, as well as our annual report to shareholders, quarterly reports, and other filings we make with the SEC, press and earnings releases and other written and oral communications, contain “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as “may,” “should,” “expects,” “intends,” “projects,” “plans,” “believes,” “estimates,” “targets,” “anticipates” and similar expressions generally identify these forward-looking statements. Examples of forward-looking statements include statements relating to our future financial condition and operating results, as well as any other statement that does not directly relate to any historical or current fact.

Forward-looking statements are based on expectations and assumptions that we believe to be reasonable when made, but that may not prove to be accurate. These statements are not guarantees and are subject to risks, uncertainties and changes in circumstances that are difficult to predict. Many factors, including those set forth in the “Risk Factors” section below and other important factors disclosed in this report and from time to time in our other filings with the SEC, could cause actual results to differ materially and adversely from these forward-looking statements. Any forward-looking statement speaks only as of the date on which it is made, and we assume no obligation to update or revise any forward-looking statement whether as a result of new information, future events or otherwise, except as required by law.

Item 1A. Risk Factors

An investment in our common stock or debt securities involves risks and uncertainties and our actual results and future trends may differ materially from our past or projected future performance. We urge investors to consider carefully the risk factors described below in evaluating the information contained in this report.

Our Commercial Airplanes and Global Services businesses depend heavily on commercial airlines, and are subject to unique risks.

Market conditions have a significant impact on demand for our commercial aircraft and related services.

The commercial aircraft market is predominantly driven by long-term trends in airline passenger and cargo traffic. The principal factors underlying long-term traffic growth are sustained economic growth and political stability both in developed and emerging markets. Demand for our commercial aircraft is further influenced by airline profitability, availability of aircraft financing, world trade policies, government-to-government relations, technological advances, price and other competitive factors, fuel prices, terrorism, epidemics and environmental regulations. Traditionally, the airline industry has been cyclical and very competitive and has experienced significant profit swings and constant challenges to be more cost competitive. In addition, availability of financing to non-U.S. customers depends in part on the Export-Import Bank of the United States being fully operational. Significant deterioration in the global economic environment, the airline industry generally, or the financial stability of one or more of our major customers could result in fewer new orders for aircraft or services, or could cause customers to seek to postpone or cancel contractual orders and/or payments to us, which could result in lower revenues, profitability and cash flows and a reduction in our contractual backlog. In addition, because our commercial aircraft backlog consists of aircraft scheduled for delivery over a period of several years, any of these macroeconomic, industry or customer impacts could unexpectedly affect deliveries over a long period.

We enter into firm fixed-price aircraft sales contracts with indexed price escalation clauses which could subject us to losses if we have cost overruns or if increases in our costs exceed the applicable escalation rate. Commercial aircraft sales contracts are often entered into years before the aircraft are delivered. In order to help account for economic fluctuations between the contract date and delivery date, aircraft pricing generally consists of a fixed amount as modified by price escalation formulas derived from labor, commodity and other price indices. Our revenue estimates are based on current expectations with respect to these escalation formulas, but the actual escalation amounts are outside of our control. Escalation factors can

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fluctuate significantly from period to period. Changes in escalation amounts can significantly impact revenues and operating margins in our Commercial Airplanes business.

We derive a significant portion of our revenues from a limited number of commercial airlines. We can make no assurance that any customer will exercise purchase options, fulfill existing purchase commitments or purchase additional products or services from us. In addition, fleet decisions, airline consolidations or financial challenges involving any of our major commercial airline customers could significantly reduce our revenues and limit our opportunity to generate profits from those customers.

Our Commercial Airplanes business depends on our ability to maintain a healthy production system, achieve planned production rate targets, successfully develop new aircraft or new derivative aircraft, and meet or exceed stringent performance and reliability standards.

The commercial aircraft business is extremely complex, involving extensive coordination and integration with U.S and non-U.S. suppliers, highly-skilled labor from thousands of employees and other partners, and stringent regulatory requirements and performance and reliability standards. In addition, the introduction of new aircraft programs and/or derivatives, such as the 777X, involves increased risks associated with meeting development, testing, production and certification schedules. As a result, our ability to deliver aircraft on time, satisfy regulatory and customer requirements, and achieve or maintain, as applicable, program profitability is subject to significant risks.

We must minimize disruption caused by production changes and achieve productivity improvements in order to meet customer demand and maintain our profitability. We have plans to adjust production rates on several of our commercial aircraft programs, while at the same time engaging in significant ongoing development and production of the 777X aircraft. In addition, we continue to seek opportunities to reduce the costs of building our aircraft, including working with our suppliers to reduce supplier costs, identifying and implementing productivity improvements, and optimizing how we manage inventory. If production rate changes at any of our commercial aircraft assembly facilities are delayed or create significant disruption to our production system, or if our suppliers cannot timely deliver components to us at the cost and rates necessary to achieve our targets, we may be unable to meet delivery schedules and/or the financial performance of one or more of our programs may suffer.

Operational challenges impacting the production system for one or more of our commercial aircraft programs could result in production delays and/or failure to meet customer demand for new aircraft, either of which would negatively impact our revenues and operating margins. Our commercial aircraft production system is extremely complex. Operational issues, including delays or defects in supplier components, failure to meet internal performance plans, or delays or failures to achieve required regulatory certifications, could result in significant out-of-sequence work and increased production costs, as well as delayed deliveries to customers, impacts to aircraft performance and/or increased warranty or fleet support costs.

If our commercial airplanes fail to satisfy performance and reliability requirements, we could face additional costs and/or lower revenues. Developing and manufacturing commercial aircraft that meet or exceed our performance and reliability standards, as well as those of customers and regulatory agencies, can be costly and technologically challenging. These challenges are particularly significant with newer aircraft programs. Any failure of any Boeing aircraft to satisfy performance or reliability requirements could result in disruption to our operations, higher costs and/or lower revenues.

Changes in levels of U.S. government defense spending or overall acquisition priorities could negatively impact our financial position and results of operations.

We derive a substantial portion of our revenue from the U.S. government, primarily from defense related programs with the United States Department of Defense (U.S. DoD). Levels of U.S. defense spending are very difficult to predict and may be impacted by numerous factors such as the political environment, U.S.

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foreign policy, macroeconomic conditions and the ability of the U.S. government to enact relevant legislation such as authorization and appropriations bills.

The Bipartisan Budget Act of 2018 raised preexisting spending caps for fiscal years 2018 and 2019 (FY18 and FY19). The consolidated spending bills signed into law in September 2018 provide defense funding for FY19. However, other departments and agencies, including the National Aeronautics and Space Administration (NASA) and the Federal Aviation Administration (FAA), are being temporarily funded at FY18 levels. Failure to enact a Continuing Resolution or FY19 appropriations by February 15, 2019 would result in a partial government shutdown affecting these departments and agencies. Such a shutdown could impact the Company's operations. In addition, reduced discretionary spending limits initially enacted in 2011 would take effect again in fiscal years 2020 and 2021 (FY20 and FY21) unless Congress acts to raise the spending caps or to repeal or suspend the law establishing the reduced limits. As a result, continued budget uncertainty and the risk of future sequestration cuts remain and it is likely that U.S. government discretionary spending levels will continue to be subject to pressure.

In addition, there continues to be significant uncertainty with respect to future program-level appropriations for the U.S. DoD and other government agencies (including NASA) within the overall budgetary framework described above. While the House and Senate Appropriations Committees included funding for Boeing's major programs, such as F/A-18 Super Hornet, CH-47 Chinook, AH-64 Apache, V-22 Osprey, KC-46A Pegasus Tanker and P-8 Poseidon, in their final FY19 defense appropriations, uncertainty remains about how defense budgets in FY20 and beyond will affect Boeing's programs. Future budget cuts or investment priority changes, including changes associated with the authorizations and appropriations process could result in reductions, cancellations, and/or delays of existing contracts or programs. Any of these impacts could have a material effect on the results of the Company's operations, financial position and/or cash flows.

In addition, as a result of the significant ongoing uncertainty with respect to both U.S. defense spending levels and the nature of the threat environment, we expect the U.S. DoD to continue to emphasize cost-cutting and other efficiency initiatives in its procurement processes. If we can no longer adjust successfully to these changing acquisition priorities and/or fail to meet affordability targets set by the U.S. DoD customer, our revenues and market share would be further impacted.

We conduct a significant portion of our business pursuant to U.S. government contracts, which are subject to unique risks.

In 2018, 31% of our revenues were earned pursuant to U.S. government contracts, which include foreign military sales (FMS) through the U.S. government. Business conducted pursuant to such contracts is subject to extensive procurement regulations and other unique risks.

Our sales to the U.S. government are subject to extensive procurement regulations, and changes to those regulations could increase our costs. New procurement regulations, or changes to existing requirements, could increase our compliance costs or otherwise have a material impact on the operating margins of our BDS and BGS businesses. These requirements may result in increased compliance costs, and we could be subject to additional costs in the form of withheld payments and/or reduced future business if we fail to comply with these requirements in the future. Compliance costs attributable to current and potential future procurement regulations such as these could negatively impact our financial condition and operating results.

The U.S. government may modify, curtail or terminate one or more of our contracts. The U.S. government contracting party may modify, curtail or terminate its contracts and subcontracts with us, without prior notice and either at its convenience or for default based on performance. In addition, funding pursuant to our U.S. government contracts may be reduced or withheld as part of the U.S. Congressional appropriations process due to fiscal constraints, changes in U.S. national security strategy and/or priorities or other

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reasons. Further uncertainty with respect to ongoing programs could also result in the event that the U.S. government finances its operations through temporary funding measures such as “continuing resolutions” rather than full-year appropriations. Any loss or anticipated loss or reduction of expected funding and/or modification, curtailment, or termination of one or more large programs could have a material adverse effect on our earnings, cash flow and/or financial position.

We are subject to U.S. government inquiries and investigations, including periodic audits of costs that we determine are reimbursable under U.S. government contracts. U.S. government agencies, including the Defense Contract Audit Agency and the Defense Contract Management Agency, routinely audit government contractors. These agencies review our performance under contracts, cost structure and compliance with applicable laws, regulations, and standards, as well as the adequacy of and our compliance with our internal control systems and policies. Any costs found to be misclassified or inaccurately allocated to a specific contract will be deemed non-reimbursable, and to the extent already reimbursed, must be refunded. Any inadequacies in our systems and policies could result in withholds on billed receivables, penalties and reduced future business. Furthermore, if any audit, inquiry or investigation uncovers improper or illegal activities, we could be subject to civil and criminal penalties and administrative sanctions, including termination of contracts, forfeiture of profits, suspension of payments, fines, and suspension or debarment from doing business with the U.S. government. We also could suffer reputational harm if allegations of impropriety were made against us, even if such allegations are later determined to be false.

We enter into fixed-price contracts which could subject us to losses if we have cost overruns.

Our BDS and BGS defense businesses generated approximately 65% and 77% of their 2018 revenues from fixed-price contracts. While fixed-price contracts enable us to benefit from performance improvements, cost reductions and efficiencies, they also subject us to the risk of reduced margins or incurring losses if we are unable to achieve estimated costs and revenues. If our estimated costs exceed our estimated price, we recognize reach-forward losses which can significantly affect our reported results. For example, during 2018, we recorded reach-forward losses totaling \$736 million on the USAF KC-46A Tanker contract primarily reflecting higher estimated costs associated with certification, testing and change incorporation on aircraft, as well as higher than expected effort to meet customer requirements in order to support delivery of the initial aircraft. In addition, in 2018, in connection with winning the T-X and MQ-25 Stingray competitions, we recorded a loss of \$400 million associated with options for 346 T-X Trainer aircraft and a loss of \$291 million related to the MQ-25 Stingray Engineering, Manufacturing and Development (EMD) contract. The long term nature of many of our contracts makes the process of estimating costs and revenues on fixed-price contracts inherently risky. Fixed-price contracts often contain price incentives and penalties tied to performance which can be difficult to estimate and have significant impacts on margins. In addition, some of our contracts have specific provisions relating to cost, schedule and performance.

Fixed-price development contracts are generally subject to more uncertainty than fixed-price production contracts. Many of these development programs have highly complex designs. In addition, technical or quality issues that arise during development could lead to schedule delays and higher costs to complete, which could result in a material charge or otherwise adversely affect our financial condition. Examples of significant BDS fixed-price development contracts include Commercial Crew, Saudi F-15, USAF KC-46A Tanker, T-X Trainer, VC-25B Presidential Aircraft, MQ-25 Stingray, and commercial and military satellites.

We enter into cost-type contracts which also carry risks.

Our BDS and BGS defense businesses generated approximately 35% and 23% of their 2018 revenues from cost-type contracting arrangements. Some of these are development programs that have complex design and technical challenges. These cost-type programs typically have award or incentive fees that are subject to uncertainty and may be earned over extended periods. In these cases the associated financial risks are primarily in reduced fees, lower profit rates or program cancellation if cost, schedule or technical

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performance issues arise. Programs whose contracts are primarily cost-type include GMD, Proprietary and SLS programs.

We enter into contracts that include in-orbit incentive payments that subject us to risks.

Contracts in the commercial satellite industry and certain government satellite contracts include in-orbit incentive payments. These in-orbit payments may be paid over time after final satellite acceptance or paid in full prior to final satellite acceptance. In both cases, the in-orbit incentive payment is at risk if the satellite does not perform to specifications for up to 15 years after acceptance. The net present value of in-orbit incentive fees we ultimately expect to realize is recognized as revenue in the construction period. If the satellite fails to meet contractual performance criteria, customers will not be obligated to continue making in-orbit payments and/or we may be required to provide refunds to the customer and incur significant charges.

Our ability to deliver products and services that satisfy customer requirements is heavily dependent on the performance and financial stability of our subcontractors and suppliers, as well as on the availability of raw materials and other components.

We rely on other companies including U.S. and non-U.S. subcontractors and suppliers to provide and produce raw materials, integrated components and sub-assemblies, and production commodities and to perform some of the services that we provide to our customers. If one or more of our suppliers or subcontractors experiences financial difficulties, delivery delays or other performance problems, we may be unable to meet commitments to our customers or incur additional costs. For example, the 737 program experienced supply chain disruptions in 2018 that impacted the timing of certain deliveries during the year. In addition, if one or more of the raw materials on which we depend (such as aluminum, titanium or composites) becomes unavailable or is available only at very high prices, we may be unable to deliver one or more of our products in a timely fashion or at budgeted costs. In some instances, we depend upon a single source of supply. Any service disruption from one of these suppliers, either due to circumstances beyond the supplier's control, such as geo-political developments, or as a result of performance problems or financial difficulties, could have a material adverse effect on our ability to meet commitments to our customers or increase our operating costs.

We use estimates in accounting for many contracts and programs. Changes in our estimates could adversely affect our future financial results.

Contract and program accounting require judgment relative to assessing risks, estimating revenues and costs and making assumptions for schedule and technical issues. Due to the size and nature of many of our contracts and programs, the estimation of total revenues and cost at completion is complicated and subject to many variables. Assumptions have to be made regarding the length of time to complete the contract or program because costs also include expected increases in wages and employee benefits, material prices and allocated fixed costs. Incentives or penalties related to performance on contracts are considered in estimating sales and profit rates, and are recorded when there is sufficient information for us to assess anticipated performance. Suppliers' assertions are also assessed and considered in estimating costs and profit rates. Estimates of award fees are also used in sales and profit rates based on actual and anticipated awards.

With respect to each of our commercial aircraft programs, inventoriable production costs (including overhead), program tooling and other non-recurring costs and routine warranty costs are accumulated and charged as cost of sales by program instead of by individual units or contracts. A program consists of the estimated number of units (accounting quantity) of a product to be produced in a continuing, long-term production effort for delivery under existing and anticipated contracts limited by the ability to make reasonably dependable estimates. To establish the relationship of sales to cost of sales, program

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accounting requires estimates of (a) the number of units to be produced and sold in a program, (b) the period over which the units can reasonably be expected to be produced and (c) the units' expected sales prices, production costs, program tooling and other non-recurring costs, and routine warranty costs for the total program. Several factors determine accounting quantity, including firm orders, letters of intent from prospective customers and market studies. Changes to customer or model mix, production costs and rates, learning curve, changes to price escalation indices, costs of derivative aircraft, supplier performance, customer and supplier negotiations/settlements, supplier claims and/or certification issues can impact these estimates. Any such change in estimates relating to program accounting may adversely affect future financial performance.

Because of the significance of the judgments and estimation processes described above, materially different sales and profit amounts could be recorded if we used different assumptions or if the underlying circumstances were to change. Changes in underlying assumptions, circumstances or estimates may adversely affect future period financial performance. For additional information on our accounting policies for recognizing sales and profits, see our discussion under "Management's Discussion and Analysis – Critical Accounting Policies – Contract Accounting/Program Accounting" on pages 43 –44 and Note 1 to our Consolidated Financial Statements on pages 54 –66 of this Form 10-K.

Competition within our markets and with respect to the products we sell may reduce our future contracts and sales.

The markets in which we operate are highly competitive and one or more of our competitors may have more extensive or more specialized engineering, manufacturing and marketing capabilities than we do in some areas. In our Commercial Airplanes business, we anticipate increasing competition among non-U.S. aircraft manufacturers of commercial jet aircraft. In our BDS business, we anticipate that the effects of defense industry consolidation, fewer large and new programs and new priorities, including near and long-term cost competitiveness, of our U.S. DoD and non-U.S. customers will intensify competition for many of our BDS products. Our BGS segment faces competition from many of the same strong U.S. and non-U.S. competitors facing BCA and BDS. Furthermore, we are facing increased international competition and cross-border consolidation of competition. There can be no assurance that we will be able to compete successfully against our current or future competitors or that the competitive pressures we face will not result in reduced revenues and market share.

We derive a significant portion of our revenues from non-U.S. sales and are subject to the risks of doing business in other countries.

In 2018, non-U.S. customers, which includes FMS, accounted for approximately 56% of our revenues. We expect that non-U.S. sales will continue to account for a significant portion of our revenues for the foreseeable future. As a result, we are subject to risks of doing business internationally, including:

- changes in regulatory requirements;
- U.S. and non-U.S. government policies, including requirements to expend a portion of program funds locally and governmental industrial cooperation or participation requirements;
- fluctuations in international currency exchange rates;
- volatility in international political and economic environments and changes in non-U.S. national priorities and budgets, which can lead to delays or fluctuations in orders;
- the complexity and necessity of using non-U.S. representatives and consultants;
- the uncertainty of the ability of non-U.S. customers to finance purchases, including the availability of financing from the Export-Import Bank of the United States;
- uncertainties and restrictions concerning the availability of funding credit or guarantees;

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imposition of domestic and international taxes, export controls, tariffs, embargoes, sanctions and other trade restrictions;
the difficulty of management and operation of an enterprise spread over many countries;
compliance with a variety of non-U.S. laws, as well as U.S. laws affecting the activities of U.S. companies abroad; and
unforeseen developments and conditions, including terrorism, war, epidemics and international tensions and conflicts.

While the impact of these factors is difficult to predict, any one or more of these factors could adversely affect our operations in the future.

Unauthorized access to our or our customers' information and systems could negatively impact our business.

We face certain security threats, including threats to the confidentiality, availability and integrity of our data and systems. We maintain an extensive network of technical security controls, policy enforcement mechanisms, monitoring systems and management oversight in order to address these threats. While these measures are designed to prevent, detect and respond to unauthorized activity in our systems, certain types of attacks, including cyber-attacks, could result in significant financial or information losses and/or reputational harm. In addition, we manage information and information technology systems for certain customers. Many of these customers face similar security threats. If we cannot prevent the unauthorized access, release and/or corruption of our customers' confidential, classified or personally identifiable information, our reputation could be damaged, and/or we could face financial losses.

The outcome of litigation and of government inquiries and investigations involving our business is unpredictable and an adverse decision in any such matter could have a material effect on our financial position and results of operations.

We are involved in a number of litigation matters. These matters may divert financial and management resources that would otherwise be used to benefit our operations. No assurances can be given that the results of these matters will be favorable to us. An adverse resolution of any of these lawsuits, or future lawsuits, could have a material impact on our financial position and results of operations. In addition, we are subject to extensive regulation under the laws of the United States and its various states, as well as other jurisdictions in which we operate. As a result, we are sometimes subject to government inquiries and investigations of our business due, among other things, to our business relationships with the U.S. government, the heavily regulated nature of our industry, and in the case of environmental proceedings, our current or past ownership of certain property. Any such inquiry or investigation could potentially result in an adverse ruling against us, which could have a material impact on our financial position and results of operations.

A significant portion of our customer financing portfolio is concentrated among certain customers and in certain types of Boeing aircraft, which exposes us to concentration risks.

A significant portion of our customer financing portfolio is concentrated among certain customers and in distinct geographic regions. Our portfolio is also concentrated by varying degrees across Boeing aircraft product types, most notably 717 and 747-8 aircraft, and among customers that we believe have less than investment-grade credit. If one or more customers holding a significant portion of our portfolio assets experiences financial difficulties or otherwise defaults on or does not renew its leases with us at their expiration, and we are unable to redeploy the aircraft on reasonable terms, or if the types of aircraft that are concentrated in our portfolio suffer greater than expected declines in value, our earnings, cash flows and/or financial position could be materially adversely affected.

Table of Contents***We may be unable to obtain debt to fund our operations and contractual commitments at competitive rates, on commercially reasonable terms or in sufficient amounts.***

We depend, in part, upon the issuance of debt to fund our operations and contractual commitments. As of December 31, 2018 and 2017, our airplane financing commitments totaled \$19,462 million and \$10,221 million. If we require additional funding in order to fund outstanding financing commitments or meet other business requirements, our market liquidity may not be sufficient. A number of factors could cause us to incur increased borrowing costs and to have greater difficulty accessing public and private markets for debt. These factors include disruptions or declines in the global capital markets and/or a decline in our financial performance, outlook or credit ratings. The occurrence of any or all of these events may adversely affect our ability to fund our operations and contractual or financing commitments.

We may not realize the anticipated benefits of mergers, acquisitions, joint ventures/strategic alliances or divestitures.

As part of our business strategy, we may merge with or acquire businesses and/or form joint ventures and strategic alliances. For example, in 2018 we completed the acquisition of KLX Inc., a provider of aviation parts and services. Whether we realize the anticipated benefits from these acquisitions and related activities depends, in part, upon our ability to integrate the operations of the acquired business, the performance of the underlying product and service portfolio, and the performance of the management team and other personnel of the acquired operations. Accordingly, our financial results could be adversely affected by unanticipated performance issues, legacy liabilities, transaction-related charges, amortization of expenses related to intangibles, charges for impairment of long-term assets, credit guarantees, partner performance and indemnifications. Consolidations of joint ventures could also impact our reported results of operations or financial position. While we believe that we have established appropriate and adequate procedures and processes to mitigate these risks, there is no assurance that these transactions will be successful. We also may make strategic divestitures from time to time. These transactions may result in continued financial involvement in the divested businesses, such as through guarantees or other financial arrangements, following the transaction. Nonperformance by those divested businesses could affect our future financial results through additional payment obligations, higher costs or asset write-downs.

Our insurance coverage may be inadequate to cover all significant risk exposures.

We are exposed to liabilities that are unique to the products and services we provide. We maintain insurance for certain risks and, in some circumstances, we may receive indemnification from the U.S. government. The amount of our insurance coverage may not cover all claims or liabilities and we may be forced to bear substantial costs. For example, liabilities arising from the use of certain of our products, such as aircraft technologies, missile systems, border security systems, anti-terrorism technologies, and/or air traffic management systems may not be insurable on commercially reasonable terms. While some of these products are shielded from liability within the U.S. under the SAFETY Act provisions of the 2002 Homeland Security Act, no such protection is available outside the U.S., potentially resulting in significant liabilities. The amount of insurance coverage we maintain may be inadequate to cover these or other claims or liabilities.

Business disruptions could seriously affect our future sales and financial condition or increase our costs and expenses.

Our business may be impacted by disruptions including threats to physical security, information technology or cyber-attacks or failures, damaging weather or other acts of nature and pandemics or other public health crises. Any of these disruptions could affect our internal operations or our ability to deliver products and services to our customers. Any significant production delays, or any destruction, manipulation or improper

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use of our data, information systems or networks could impact our sales, increase our expenses and/or have an adverse effect on the reputation of Boeing and of our products and services.

Some of our and our suppliers' workforces are represented by labor unions, which may lead to work stoppages.

Approximately 54,000 employees, which constitute 35% of our total workforce, were union represented as of December 31, 2018. We experienced a work stoppage in 2008 when a labor strike halted commercial aircraft and certain BDS program production. We may experience additional work stoppages in the future, which could adversely affect our business. We cannot predict how stable our relationships, currently with 11 U.S. labor organizations and 13 non-U.S. labor organizations, will be or whether we will be able to meet the unions' requirements without impacting our financial condition. The unions may also limit our flexibility in dealing with our workforce. Union actions at suppliers can also affect us. Work stoppages and instability in our union relationships could delay the production and/or development of our products, which could strain relationships with customers and cause a loss of revenues which would adversely affect our operations.

Substantial pension and other postretirement benefit obligations have a material impact on our earnings, shareholders' equity and cash flows from operations, and could have significant adverse impacts in future periods.

The majority of our employees have earned benefits under defined benefit pension plans. Potential pension contributions include both mandatory amounts required under the Employee Retirement Income Security Act and discretionary contributions to improve the plans' funded status. The extent of future contributions depends heavily on market factors such as the discount rate and the actual return on plan assets. We estimate future contributions to these plans using assumptions with respect to these and other items.

Changes to those assumptions could have a significant effect on future contributions as well as on our annual pension costs and/or result in a significant change to shareholders' equity. For U.S. government contracts, we allocate pension costs to individual contracts based on U.S. Cost Accounting Standards which can also affect contract profitability. We also provide other postretirement benefits to certain of our employees, consisting principally of health care coverage for eligible retirees and qualifying dependents.

Our estimates of future costs associated with these benefits are also subject to assumptions, including estimates of the level of medical cost increases. For a discussion regarding how our financial statements can be affected by pension and other postretirement plan accounting policies, see "Management's Discussion and Analysis-Critical Accounting Policies-Pension Plans" on page 45 of this Form 10-K.

Although Generally Accepted Accounting Principles in the United States of America (GAAP) expense and pension or other postretirement benefit contributions are not directly related, the key economic factors that affect GAAP expense would also likely affect the amount of cash or stock we would contribute to our plans.

Table of Contents***Our operations expose us to the risk of material environmental liabilities.***

We are subject to various U.S. federal, state, local and non-U.S. laws and regulations related to environmental protection, including the discharge, treatment, storage, disposal and remediation of hazardous substances and wastes. We could incur substantial costs, including cleanup costs, fines and civil or criminal sanctions, as well as third-party claims for property damage or personal injury, if we were to violate or become liable under environmental laws or regulations. In some cases, we may be subject to such costs due to environmental impacts attributable to our current or past manufacturing operations or the operations of companies we have acquired. In other cases, we may become subject to such costs due to an indemnification agreement between us and a third party relating to such environmental liabilities. In addition, new laws and regulations, more stringent enforcement of existing laws and regulations, the discovery of previously unknown contamination or the imposition of new remediation requirements could result in additional costs. For additional information relating to environmental contingencies, see Note 14 to our Consolidated Financial Statements.

Item 1B. Unresolved Staff Comments

Not applicable

Item 2. Properties

We occupied approximately 88 million square feet of floor space on December 31, 2018 for manufacturing, warehousing, engineering, administration and other productive uses, of which approximately 95% was located in the United States. The following table provides a summary of the floor space by business as of December 31, 2018:

<i>(Square feet in thousands)</i>	Owned	Leased	Government Owned ⁽¹⁾	Total
Commercial Airplanes	40,822	2,264		43,086
Defense, Space & Security	25,991	5,315		31,306
Global Services	684	8,140		8,824
Other ⁽²⁾	2,499	1,777	318	4,594
Total	69,996	17,496	318	87,810

⁽¹⁾ Excludes rent-free space furnished by U.S. government landlord of 49 square feet.

⁽²⁾ Other includes BCC, sites used for common internal services, and our Corporate Headquarters.

At December 31, 2018, we occupied in excess of 80.1 million square feet of floor space at the following major locations:

Commercial Airplanes – Greater Seattle, WA; Greater Charleston, SC; Portland, OR; Greater Los Angeles, CA; Greater Salt Lake City, UT; Australia; and Canada

Defense, Space & Security – Greater St. Louis, MO; Greater Los Angeles, CA; Greater Seattle, WA; Philadelphia, PA; Mesa, AZ; Huntsville, AL; Oklahoma City, OK; Heath, OH; Greater Washington, DC; and Houston, TX

Global Services – San Antonio, TX; Greater Miami, FL; Dallas, TX; Germany; Jacksonville, FL; Greater Denver, CO; and Mesa, AZ

Other – Chicago, IL; Greater Los Angeles, CA ; Greater Seattle, WA; Greater St. Louis, MO; and Greater Washington, DC

Most runways and taxiways that we use are located on airport properties owned by others and are used jointly with others. Our rights to use such facilities are provided for under long-term leases with municipal,

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county or other government authorities. In addition, the U.S. government furnishes us certain office space, installations and equipment at U.S. government bases for use in connection with various contract activities. We believe that our major properties are adequate for our present needs and, as supplemented by planned improvements and construction, expect them to remain adequate for the foreseeable future.

Item 3. Legal Proceedings

Currently, we are involved in a number of legal proceedings. For a discussion of contingencies related to legal proceedings, see Note 22 to our Consolidated Financial Statements, which is hereby incorporated by reference.

Item 4. Mine Safety Disclosures

Not applicable

Table of Contents**PART II****Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities**

The principal market for our common stock is the New York Stock Exchange where it trades under the symbol BA. As of February 1, 2019, there were 104,376 shareholders of record.

Issuer Purchases of Equity Securities

The following table provides information about purchases we made during the quarter ended December 31, 2018 of equity securities that are registered by us pursuant to Section 12 of the Exchange Act:

(Dollars in millions, except per share data)

	(a)	(b)	(c)	(d)
	Total Number of Shares Purchased ⁽¹⁾	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Approximate Dollar Value of Shares That May Yet be Purchased Under the Plans or Programs ⁽²⁾
10/1/2018 thru 10/31/2018	1,567,983	\$374.79	1,560,854	\$9,000
11/1/2018 thru 11/30/2018	16,910	334.84		9,000
12/1/2018 thru 12/31/2018	4,295	328.26		20,000
Total	1,589,188	\$374.24	1,560,854	

We purchased an aggregate of 1,560,854 shares of our common stock in the open market pursuant to our repurchase plan and 28,334 shares transferred to us from employees in satisfaction of minimum tax withholding obligations associated with the vesting of restricted stock units during the period. We did not purchase shares in swap transactions.

(2) On December 17, 2018, we announced a new repurchase plan for up to \$20 billion of common stock, replacing the plan previously authorized in 2017.

Table of Contents**Item 6. Selected Financial Data
Five-Year Summary (Unaudited)***(Dollars in millions, except per share data)*

	2018	2017	2016	2015	(2) 2014	(2)
Revenues	\$101,127	\$94,005	\$93,496	\$96,114	\$90,762	
Net earnings from continuing operations	\$10,460	\$8,458	\$5,034	\$5,176	\$5,446	
Basic earnings per share from continuing operations	\$18.05	\$14.03	\$7.92	\$7.52	\$7.47	
Diluted earnings per share from continuing operations	17.85	13.85	7.83	7.44	7.38	
Dividends declared per share ⁽¹⁾	7.19	5.97	4.69	3.82	3.10	
Cash and cash equivalents	\$7,637	\$8,813	\$8,801	\$11,302	\$11,733	
Short-term and other investments	927	1,179	1,228	750	1,359	
Total assets	117,359	112,362	109,076	94,408	92,921	
Total debt	13,847	11,117	9,952	9,964	9,070	
Operating cash flow	\$15,322	\$13,346	\$10,496	\$9,363	\$8,858	
Total backlog	\$490,481	\$474,640	\$473,492 ⁽²⁾	\$489,299	\$502,391	
Year-end workforce	153,000	140,800	150,500	161,400	165,500	

⁽¹⁾ Cash dividends have been paid on common stock every year since 1942.⁽²⁾ Amounts prior to 2016, along with 2016 Backlog, do not reflect impact of the adoption of ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606); ASU No. 2017-07, Compensation - Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost; ASU 2016-18 Statement of Cash Flows (Topic 230) Restricted Cash; in the first quarter of 2018. See Note 2 to our Consolidated Financial Statements for additional information.

Table of Contents**Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations**
Consolidated Results of Operations and Financial Condition**Overview**

We are a global market leader in the design, development, manufacture, sale, service and support of commercial jetliners, military aircraft, satellites, missile defense, human space flight and launch systems and services. We are one of the two major manufacturers of 100+ seat airplanes for the worldwide commercial airline industry and one of the largest defense contractors in the U.S. While our principal operations are in the U.S., we conduct operations in an expanding number of countries and rely on an extensive network of non-U.S. partners, key suppliers and subcontractors.

Our strategy is centered on successful execution in healthy core businesses – Commercial Airplanes (BCA), Defense, Space & Security (BDS), and Global Services (BGS) – supplemented and supported by Boeing Capital (BCC). Taken together, these core businesses have historically generated substantial earnings and cash flow that permit us to invest in new products and services. We focus on producing the products and providing the services that the market demands, and continue to find new ways to improve efficiency and quality to provide a fair return for our shareholders. BCA is committed to being the leader in commercial aviation by offering airplanes and services that deliver superior design, efficiency and value to customers around the world. BDS integrates its resources in defense, intelligence, communications, security, space and services to deliver capability-driven solutions to customers at reduced costs. Our BDS strategy is to leverage our core businesses to capture key next-generation programs while expanding our presence in adjacent and international markets, underscored by an intense focus on growth and productivity. BGS provides support for commercial and defense through innovative, comprehensive, and cost-competitive product and service solutions. BCC facilitates, arranges, structures and provides selective financing solutions for our Boeing customers.

Consolidated Results of Operations

The following table summarizes key indicators of consolidated results of operations:

(Dollars in millions, except per share data)

Years ended December 31,	2018	2017	2016	
Revenues	\$101,127	\$94,005	\$93,496	
GAAP				
Earnings from operations	11,987	10,344	6,527	
Operating margins	11.9	% 11.0	% 7.0	%
Effective income tax rate	9.9	% 16.3	% 13.0	%
Net earnings	\$10,460	\$8,458	\$5,034	
Diluted earnings per share	\$17.85	\$13.85	\$7.83	

Non-GAAP ⁽¹⁾

Core operating earnings	\$10,660	\$8,906	\$5,170	
Core operating margins	10.5	% 9.5	% 5.5	%
Core earnings per share	\$16.01	\$12.33	\$6.94	

These measures exclude certain components of pension and other postretirement benefit expense. See (1)page 40 - 42 for important information about these non-GAAP measures and reconciliations to the most comparable GAAP measures.

Table of Contents**Revenues**

The following table summarizes Revenues:

(Dollars in millions)

Years ended December 31,	2018	2017	2016
Commercial Airplanes	\$60,715	\$58,014	\$59,378
Defense, Space & Security	23,195	20,561	20,180
Global Services	17,018	14,581	13,819
Boeing Capital	274	307	298
Unallocated items, eliminations and other	(75)	542	(179)
Total	\$101,127	\$94,005	\$93,496

Revenues in 2018 increased by \$7,122 million or 8% compared with 2017 due to higher revenues at BCA, BDS, and BGS. BCA revenues increased by \$2,701 million due to higher 737 and 787 deliveries and favorable 737 and 787 model mix, which more than offset lower 777 and 747 deliveries. BDS revenues increased by \$2,634 million primarily due to non-US contract awards for fighters, higher weapons revenue, the final C-17 aircraft sale and higher satellites revenue. BGS revenues increased by \$2,437 million due to growth across our services portfolio, primarily driven by higher parts revenue including the acquisition of KLX Inc. (KLX). The increases at BCA, BDS, and BGS were partially offset by lower unallocated revenue. Revenues in 2017 increased by \$509 million or 1% compared with 2016. BDS revenues increased by \$381 million primarily due to higher weapons revenue. BGS revenues increased by \$762 million primarily due to higher commercial parts revenue. The increases at BDS and BGS were partially offset by lower BCA revenues, primarily due to delivery mix, with fewer twin aisle deliveries more than offsetting the impact of higher single aisle deliveries.

The changes in Unallocated items, eliminations and other in 2018, 2017 and 2016 primarily reflect the timing of eliminations for intercompany aircraft deliveries and the sale of aircraft previously leased to customers.

Table of Contents**Earnings From Operations**

The following table summarizes Earnings from operations:

(Dollars in millions)

Years ended December 31,	2018	2017	2016
Commercial Airplanes	\$7,879	\$5,452	\$1,981
Defense, Space & Security	1,594	2,193	1,678
Global Services	2,522	2,246	2,159
Boeing Capital	79	114	59
Segment Operating Profit	12,074	10,005	5,877
Pension FAS/CAS service cost adjustment	1,005	1,127	1,029
Postretirement FAS/CAS service cost adjustment	322	311	328
Unallocated items, eliminations and other	(1,414)	(1,099)	(707)
Earnings from operations (GAAP)	\$11,987	\$10,344	\$6,527
FAS/CAS service cost adjustment *	(1,327)	(1,438)	(1,357)
Core operating earnings (Non-GAAP) **	\$10,660	\$8,906	\$5,170

* The FAS/CAS service cost adjustment represents the difference between the FAS pension and postretirement service costs calculated under GAAP and costs allocated to the business segments.

** Core operating earnings is a Non-GAAP measure that excludes the FAS/CAS service cost adjustment.

See page 40.

Earnings from operations in 2018 increased by \$1,643 million compared with 2017, primarily due to higher earnings at BCA and BGS, which more than offset the decrease at BDS and the change in Unallocated items, eliminations and other. BCA earnings from operations increased by \$2,427 million in 2018 due to higher revenues and improved operating margins. The increase in operating margins is primarily due to higher 787 margins, improved cost performance and favorable delivery mix. BGS earnings from operations increased by \$276 million in 2018 primarily due to higher revenues, partially offset by higher period costs. BDS earnings from operations in 2018 decreased by \$599 million compared with 2017 as earnings' growth from higher revenues was more than offset by charges of \$691 million related to winning the T-X Trainer and MQ-25 competitions, as well as \$199 million of higher KC-46A Tanker reach-forward losses.

Earnings from operations in 2017 increased by \$3,817 million compared with 2016 due to higher earnings at BCA and BDS, partially offset by the change in Unallocated items, eliminations and other. BCA earnings from operations increased by \$3,471 million in 2017 primarily due to lower reach-forward losses, lower research and development costs, and improved margins reflecting favorable cost performance. In 2016, BCA recorded reach-forward losses of \$1,258 million on the 747 program and reclassified \$1,235 million of 787 flight test aircraft inventory costs to research and development. The reclassification of flight test aircraft costs was recorded in the second quarter of 2016 as a result of our determination that two 787 flight test aircraft were no longer commercially saleable. BDS earnings from operations increased by \$515 million in 2017 primarily due to lower charges on the KC-46A Tanker and Commercial Crew programs.

During 2018, 2017 and 2016, we recorded reach-forward losses on the KC-46A Tanker program. In 2018, we recorded charges of \$736 million, of which \$500 million was recorded at BCA, \$222 million at BDS, and \$14 million at BGS. During 2017, we recorded charges of \$445 million: \$378 million at BCA, \$44 million at BGS, and \$23 million at BDS. During 2016, we recorded charges of \$1,127 million: \$772 million at BCA and \$351 million at BDS.

Core operating earnings for 2018 increased by \$1,754 million compared with 2017 primarily due to higher earnings at BCA and BGS, partially offset by lower earnings at BDS and higher unallocated expenses.

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Core operating earnings in 2017 increased by \$3,736 million compared with 2016 primarily due to higher earnings at BCA and BDS.

Unallocated Items, Eliminations and Other The most significant items included in Unallocated items, eliminations and other are shown in the following table:

(Dollars in millions)

Years ended December 31,	2018	2017	2016
Share-based plans	(\$76)	(\$77)	(\$66)
Deferred compensation	(19)	(240)	(46)
Eliminations and other unallocated items	(1,319)	(782)	(595)
Unallocated items, eliminations and other	(\$1,414)	(\$1,099)	(\$707)

Deferred compensation expense decreased by \$221 million in 2018 and increased by \$194 million in 2017, primarily driven by changes in broad stock market conditions and our stock price.

Eliminations and other unallocated expense increased by \$537 million in 2018 primarily due to timing of expense allocations, higher research and development expense and a \$148 million charge incurred related to the outcome of the Spirit litigation. See the discussion in Note 13 to our Consolidated Financial Statements.

Eliminations and other unallocated expense increased by \$187 million in 2017 primarily due to the timing of expense allocations.

A portion of service cost is recognized in Earnings from operations in the period incurred and the remainder is included in inventory at the end of the reporting period and recorded in Earnings from operations in subsequent periods.

Net periodic pension benefit costs included in Earnings from operations were as follows:

(Dollars in millions)

Years ended December 31,	Pension		
	2018	2017	2016
Allocated to business segments	(\$1,318)	(\$1,637)	(\$2,286)
Pension FAS/CAS service cost adjustment	1,005	1,127	1,029
Net periodic benefit cost included in Earnings from operations	(\$313)	(\$510)	(\$1,257)

The pension FAS/CAS service cost adjustment recognized in earnings in 2018, 2017, and 2016 were largely consistent across all periods. The decrease in net periodic benefit costs included in Earnings from operations in 2017 was primarily due to lower service costs reflecting the transition of employees in 2016 to defined contribution retirement savings plans.

For additional discussion related to Postretirement Plans, see Note 17 to our Consolidated Financial Statements.

Table of Contents**Other Earnings Items***(Dollars in millions)*

Years ended December 31,	2018	2017	2016
Earnings from operations	\$11,987	\$10,344	\$6,527
Other income/(loss), net	92	123	(438)
Interest and debt expense	(475)	(360)	(306)
Earnings before income taxes	11,604	10,107	5,783
Income tax expense	(1,144)	(1,649)	(749)
Net earnings from continuing operations	\$10,460	\$8,458	\$5,034

Other income/(loss), net decreased by \$31 million in 2018 primarily due to lower gains from foreign exchange, partially offset by higher interest income. Other income/(loss), net increased by \$561 million in 2017 primarily due to a decrease in non-operating pension and postretirement costs and higher gains from foreign exchange. The non-operating pension expense included in Other income/(loss), net was a benefit of \$143 million in 2018 and \$117 million in 2017, compared with an expense of \$327 million in 2016. The benefits in 2018 and 2017 reflect expected returns in excess of interest cost and amortization of actuarial losses. The expense in 2016 reflects the amortization of non-service costs previously capitalized as inventory in prior years, primarily interest cost and amortization of actuarial losses in excess of expected returns.

Interest and debt expense increased by \$115 million in 2018 as a result of higher debt balances and lower capitalized interest and increased by \$54 million in 2017 as a result of lower capitalized interest.

For additional discussion related to Income Taxes, see Note 6 to our Consolidated Financial Statements.

Total Costs and Expenses (“Cost of Sales”)

Cost of sales, for both products and services, consists primarily of raw materials, parts, sub-assemblies, labor, overhead and subcontracting costs. Our BCA segment predominantly uses program accounting to account for cost of sales. Under program accounting, cost of sales for each commercial airplane program equals the product of (i) revenue recognized in connection with customer deliveries and (ii) the estimated cost of sales percentage applicable to the total remaining program. For long-term contracts, the amount reported as cost of sales is recognized as incurred. Substantially all contracts at our BDS segment, certain military derivative aircraft contracts at BCA and certain contracts at our BGS segment are long-term contracts with the U.S. government and other customers that generally extend over several years. Costs on these contracts are recorded as incurred.

The following table summarizes cost of sales:

(Dollars in millions)

Years ended December 31	2018	2017	Change	2017	2016	Change
Cost of sales	\$81,490	\$76,612	\$4,878	\$76,612	\$79,026	(\$2,414)
Cost of sales as a % of revenues	80.6	% 81.5	%(0.9	%) 81.5	% 84.5	%(3.0)%

Cost of sales in 2018 increased by \$4,878 million, or 6%, compared with 2017, primarily due to higher revenue and higher reach-forward losses at BCA and BDS.

Cost of sales in 2017 decreased by \$2,414 million, or 3%, compared with 2016, primarily due to lower reach-forward losses at BCA and BDS.

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Research and Development The following table summarizes our Research and development expense:

(Dollars in millions)

Years ended December 31,	2018	2017	2016
Commercial Airplanes	\$2,188	\$2,247	\$3,706
Defense, Space & Security	788	834	816
Global Services	161	140	152
Other	132	(42)	(48)
Total	\$3,269	\$3,179	\$4,626

Research and development expense in 2018 increased by \$90 million compared with 2017 due to investment in product development, partially offset by lower spending on 777X and 787-10.

Research and development expense in 2017 decreased by \$1,447 million compared with 2016 primarily due to the reclassification of \$1,235 million of costs from inventory in the second quarter of 2016 related to the fourth and fifth 787 flight test aircraft as well as lower spending on the 737 MAX, 787-10, and 777X.

Backlog

Our backlog at December 31 was as follows:

(Dollars in millions)

Years ended December 31,	2018	2017
Commercial Airplanes	\$412,307	\$410,986
Defense, Space & Security	57,166	44,049
Global Services	21,008	19,605
Total Backlog	\$490,481	\$474,640

Contractual backlog	462,070	456,984
Unobligated backlog	28,411	\$17,656
Total Backlog	\$490,481	\$474,640

Contractual backlog of unfilled orders excludes purchase options, announced orders for which definitive contracts have not been executed, and unobligated U.S. and non-U.S. government contract funding. The increase in contractual backlog during 2018 was primarily due to BDS orders and funding for contract awards in excess of revenue recognized.

Unobligated backlog includes U.S. and non-U.S. government definitive contracts for which funding has not been authorized. The increase in unobligated backlog in 2018 was primarily due to contract awards, partially offset by reclassifications to contractual backlog related to BDS and BGS contracts.

Additional Considerations

KC-46A Tanker In 2011, we were awarded a contract from the U.S. Air Force (USAF) to design, develop, manufacture and deliver four next generation aerial refueling tankers. The KC-46A Tanker is a derivative of our 767 commercial aircraft. This Engineering, Manufacturing and Development (EMD) contract is a fixed-price incentive fee contract valued at \$4.9 billion and involves highly complex designs and systems integration. In 2016, following our achievement of key flight testing milestones, the USAF authorized two LRIP lots for 7 and 12 aircraft valued at \$2.8 billion, and in 2017, the USAF authorized an additional LRIP lot for 15 aircraft valued at \$2.1 billion. On September 10, 2018, the USAF authorized an additional LRIP lot for 18 aircraft valued at \$2.9 billion. The contract contains production options for both LRIP aircraft and

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full rate production aircraft. If all options under the contract are exercised, we expect to deliver 179 aircraft for a total expected contract value of approximately \$30 billion. In January 2019, we delivered the first KC-46A Tanker to the USAF.

During 2016, we recorded reach-forward losses of \$1,127 million related to the EMD contract and LRIP aircraft. During 2017, we recorded reach-forward losses of \$445 million related to this program, primarily reflecting higher estimated costs associated with certification and incorporating changes into LRIP aircraft. During 2018, we recorded additional reach-forward losses of \$736 million primarily reflecting higher estimated costs associated with certification, flight testing and change incorporation on aircraft, as well as higher than expected effort to meet customer requirements in order to support delivery of the initial aircraft. As with any development program, this program remains subject to additional reach-forward losses and/or delivery delays if we experience further production, technical or quality issues, and delays in flight testing, certification and/or delivery.

Export-Import Bank of the United States Many of our non-U.S. customers finance purchases through the Export-Import Bank of the United States. Following the expiration of the bank's charter on June 30, 2015, the bank's charter was reauthorized in December 2015. The bank is now authorized through September 30, 2019. However, until the U.S. Senate confirms members sufficient to reconstitute a quorum of the bank's board of directors, the bank will not be able to approve any transaction totaling more than \$10 million. As a result, we may fund additional commitments and/or enter into new financing arrangements with customers. Certain of our non-U.S. customers also may seek to delay purchases if they cannot obtain financing at reasonable costs, and there may be further impacts with respect to future sales campaigns involving non-U.S. customers. We continue to work with our customers to mitigate risks associated with the lack of a quorum of the bank's board of directors and assist with alternative third party financing sources.

Global Trade On June 1, 2018, the U.S. Government began imposing tariffs on steel and aluminum imports. In response to these tariffs, several major U.S. trading partners have imposed, or announced their intention to impose, tariffs on U.S. goods. We continue to monitor the potential for any extra costs that may result from these actions.

On July 6, 2018, the U.S. and China began imposing tariffs on approximately \$34 billion of each other's exports. Certain aircraft parts and components that Boeing procures are subject to these tariffs.

Subsequently, the U.S. imposed tariffs on an additional \$216 billion in Chinese goods, and China imposed tariffs on an additional \$76 billion worth of U.S goods. On December 1, 2018, the U.S. and China agreed to a 90-day timetable to negotiate a resolution to the trade dispute. We continue to monitor the potential for any disruption and adverse revenue and/or cost impacts that may result from these actions or future geopolitical economic developments.

The U.S. Government continues to impose and/or threaten to impose sanctions on certain businesses and individuals in Russia. Although our operations or sales in Russia have not been impacted to date, we continue to monitor additional sanctions that may be imposed by the U.S. Government and any responses from Russia that could affect our supply chain, business partners or customers.

Table of Contents**Segment Results of Operations and Financial Condition****Commercial Airplanes****Business Environment and Trends**

Airline Industry Environment Global economic growth, a primary driver for air travel, was above the long-term average of approximately 3% in 2018. Passenger traffic is estimated to grow by 6.5% in 2018, exceeding the long-term average of approximately 5%. While growth was strong across all major world regions, there continues to be variation between regions and airline business models. Airlines operating in Asia Pacific, Europe and North America, as well as low-cost-carriers globally, are currently leading the growth in passenger traffic. Air cargo traffic growth is expected to be between 4.0% and 4.5% in 2018, around the long-term average.

Airline financial performance also plays a role in the demand for new capacity. Airlines continue to focus on increasing revenue through alliances, partnerships, new marketing initiatives, and effective leveraging of ancillary services and related revenues. Airlines are also focusing on reducing costs and renewing fleets to leverage more efficient airplanes. Net profits in 2018 are expected to approximate \$32 billion.

The long-term outlook for the industry continues to remain positive due to the fundamental drivers of air travel demand: economic growth and the increasing propensity to travel due to increased trade, globalization, and improved airline services driven by liberalization of air traffic rights between countries. Our 20-year forecast projects a long-term average growth rate of 4.7% per year for passenger traffic and 4.2% for cargo traffic. Based on long-term global economic growth projections of 2.8% average annual GDP growth, we project a \$6.3 trillion market for approximately 42,700 new airplanes over the next 20 years. The industry remains vulnerable to exogenous developments including fuel price spikes, credit market shocks, acts of terrorism, natural disasters, conflicts, epidemics and increased global environmental regulations.

Industry Competitiveness The commercial jet airplane market and the airline industry remain extremely competitive. Market liberalization in Europe, the Middle East and Asia is enabling low-cost airlines to continue gaining market share. These airlines are increasing the pressure on airfares. This results in continued cost pressures for all airlines and price pressure on our products. Major productivity gains are essential to ensure a favorable market position at acceptable profit margins.

Continued access to global markets remains vital to our ability to fully realize our sales potential and long-term investment returns. Approximately 88% of Commercial Airplanes' total backlog, in dollar terms, is with non-U.S. airlines.

We face aggressive international competitors who are intent on increasing their market share. They offer competitive products and have access to most of the same customers and suppliers. With government support, Airbus has historically invested heavily to create a family of products to compete with ours. Regional jet makers, Embraer and Bombardier, continue to develop and market larger and increasingly more capable airplanes. During 2018, Airbus acquired a majority share of Bombardier's C Series (now A220) and is in the 100-150 seat transcontinental market, while Embraer's first E195-E2 delivered in 2018. Additionally, other competitors from Russia, China and Japan are developing commercial jet aircraft. Some of these competitors have historically enjoyed access to government-provided financial support, including "launch aid," which greatly reduces the cost and commercial risks associated with airplane development activities. This has enabled the development of airplanes without commercial viability; others to be brought to market more quickly than otherwise possible; and many offered for sale below market-based prices. Many competitors have continued to make improvements in efficiency, which may result in funding product development, gaining market share and improving earnings. This market environment has resulted in intense pressures on pricing and other competitive factors, and we expect these pressures to continue or intensify in the coming years.

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We are focused on improving our products and services and continuing our cost-reduction efforts, which enhances our ability to compete. We are also focused on taking actions to ensure that Boeing is not harmed by unfair subsidization of competitors.

Results of Operations*(Dollars in millions)*

Years ended December 31,	2018	2017	2016
Revenues	\$60,715	\$58,014	\$59,378
% of total company revenues	60	% 62	% 64
Earnings from operations	\$7,879	\$5,452	\$1,981
Operating margins	13.0	% 9.4	% 3.3
Research and development	\$2,188	\$2,247	\$3,706

Revenues

BCA revenues increased by \$2,701 million or 5% in 2018 compared with 2017 due to higher 737 and 787 deliveries and favorable 737 and 787 model mix, which more than offset lower 777 and 747 deliveries. BCA revenues decreased by \$1,364 million or 2% in 2017 compared with 2016 primarily due to delivery mix, with fewer twin aisle deliveries more than offsetting the impact of higher single aisle deliveries.

Commercial Airplanes deliveries as of December 31 were as follows:

737 * 747 † 767 * 777 787 Total

2018

Cumulative deliveries	7,312	1,548	1,133	1,582	781
Deliveries	580 ⁽¹⁸⁾	6	27 ⁽¹⁰⁾	48	145806

2017

Cumulative deliveries	6,732	1,542	1,106	1,534	636
Deliveries	529 ⁽¹⁷⁾	14 ⁽¹⁾	10	74	136763

2016

Cumulative deliveries	6,203	1,528	1,096	1,460	500
Deliveries	490 ⁽¹⁹⁾	9 ⁽³⁾	13	99	137748

* Intercompany deliveries identified by parentheses

† Aircraft accounted for as revenues by BCA and as operating leases in consolidation identified by parentheses

Earnings From Operations

Earnings from operations in 2018 increased by \$2,427 million compared with 2017. The increase in operating earnings reflects higher revenues and improved operating margins. The increase in operating margins is primarily due to higher 787 margins, improved cost performance and favorable delivery mix. Earnings from operations in 2017 increased by \$3,471 million compared with 2016. The increase in operating earnings and operating margins is primarily due to lower reach-forward losses, lower research and development costs, and improved margins reflecting favorable cost performance, which more than offset the impact of lower revenues. Research and development expense in 2016 reflects the reclassification from inventory to research and development expense of \$1,235 million related to the fourth and fifth 787 flight test aircraft and higher planned spending related to the 777X program.

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Reach-forward losses of \$500 million, \$378 million and \$772 million were recorded related to the KC-46A Tanker in 2018, 2017 and 2016, respectively. During 2016, we recorded reach-forward losses on the 747 program of \$1,258 million.

Backlog

Our total backlog represents the estimated transaction prices on unsatisfied and partially satisfied performance obligations to our customers where we believe it is probable that we will collect the consideration due and where no contingencies remain before we and the customer are required to perform. Backlog does not include prospective orders where customer controlled contingencies remain, such as the customer receiving approval from its board of directors, shareholders or government or completing financing arrangements. All such contingencies must be satisfied or have expired prior to recording a new firm order even if satisfying such conditions is highly certain. Backlog excludes options and BCC orders. A number of our customers may have contractual remedies that may be implicated by program delays. We address customer claims and requests for other contractual relief as they arise. The value of orders in backlog is adjusted as changes to price and schedule are agreed to with customers and is reported in accordance with the requirements of ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606).

BCA total backlog of \$412,307 million at December 31, 2018 increased from \$410,986 million at December 31, 2017, primarily due to net orders in excess of deliveries.

Accounting Quantity The accounting quantity is our estimate of the quantity of airplanes that will be produced for delivery under existing and anticipated contracts. The determination of the accounting quantity is limited by the ability to make reasonably dependable estimates of the revenue and cost of existing and anticipated contracts. It is a key determinant of the gross margins we recognize on sales of individual airplanes throughout a program's life. Estimation of each program's accounting quantity takes into account several factors that are indicative of the demand for that program, including firm orders, letters of intent from prospective customers and market studies. We review our program accounting quantities quarterly. The accounting quantity for each program may include units that have been delivered, undelivered units under contract, and units anticipated to be under contract in the reasonable future (anticipated orders). In developing total program estimates, all of these items within the accounting quantity must be considered.

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The following table provides details of the accounting quantities and firm orders by program as of December 31. Cumulative firm orders represent the cumulative number of commercial jet aircraft deliveries plus undelivered firm orders.

	Program						
	737 †	747*	767	777 †	777X	787 †	
2018							
Program accounting quantities	10,400	1,574	1,195	1,680	**	1,600	
Undelivered units under firm orders	4,708 ₍₇₅₎	24	111	100 ₍₂₎	326	604 ₍₃₀₎	
Cumulative firm orders	12,020 ₍₇₅₎	1,572	1,244	1,682 ₍₂₎	326	1,385 ₍₃₀₎	
2017							
Program accounting quantities	9,800	1,570	1,171	1,625	**	1,400	
Undelivered units under firm orders***	4,613	12	98	97	326	640	
Cumulative firm orders***	11,345	1,554	1,204	1,631	326	1,276	
2016							
Program accounting quantities	9,000	1,555	1,159	1,625	**	1,300	
Undelivered units under firm orders***	4,452	28	93	136	306	700	
Cumulative firm orders***	10,655	1,556	1,189	1,596	306	1,200	

† Aircraft ordered by BCC are identified in parentheses.

* At December 31, 2018, the 747 accounting quantity includes one already completed aircraft that has not been sold and is being remarketed.

** The accounting quantity for the 777X will be determined in the year of first airplane delivery, targeted for 2020.

*** Cumulative firm orders adjusted to reflect the adoption of Topic 606 in the first quarter of 2018.

Program Highlights

737 Program The accounting quantity for the 737 program increased by 600 units during 2018 due to the program's normal progress of obtaining additional orders and delivering airplanes. We delivered the first 737 MAX 8 in May 2017, announced the launch of the 737 MAX 10 in June 2017 and delivered the first 737 MAX 9 in March 2018. The production rate increased from 47 per month to 52 per month in the second quarter of 2018, however the timing of deliveries in 2018 was adversely affected by delays in the supply chain. We continue to plan to increase the production rate to 57 per month in 2019.

747 Program During the fourth quarter of 2018, we received a firm order for 4 new aircraft and increased the accounting quantity by 4 units to 1,574 aircraft. The program accounting quantity now includes aircraft scheduled to be produced through 2022. We are currently producing at a rate of 0.5 aircraft per month having reduced the rate from 1.0 per month in September 2016. In 2016, we recorded reach-forward losses of \$1,258 million as lower than expected demand for large commercial passenger and freighter aircraft and slower than expected growth of global freight traffic resulted in lower anticipated revenues from future sales and higher costs to produce fewer airplanes. We continue to evaluate the viability of the 747 program. We believe that a decision to end production of the 747 at the end of the current accounting quantity would not have a material impact on our financial position, results of operations or cash flows.

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767 Program The accounting quantity for the 767 program increased by 24 units during the first quarter of 2018 due to the program's normal progress of obtaining additional orders and delivering airplanes. The 767 assembly line includes a 767 derivative to support the tanker program. We are currently producing at a rate of 2.5 per month and plan to increase to 3 per month in 2020.

777 Program The accounting quantity for the 777 program increased by 55 units during 2018 due to the program's normal progress of obtaining additional orders and delivering airplanes. We are currently producing at a rate of 5 per month. In 2013, we launched the 777X, which features a new composite wing, new engines and folding wing-tips. The 777X will have a separate program accounting quantity, which will be determined in the year of first airplane delivery, targeted for 2020.

787 Program The accounting quantity for the 787 program increased by 200 units during 2018 due to the program's normal progress of obtaining additional orders and delivering airplanes. We are currently producing at a rate of 12 per month and plan to increase to 14 per month in 2019. We delivered the first 787-10 in March 2018.

Fleet Support We provide the operators of our commercial airplanes with assistance and services to facilitate efficient and safe airplane operation. Collectively known as fleet support services, these activities and services begin prior to airplane delivery and continue throughout the operational life of the airplane. They include flight and maintenance training, field service support, engineering services, information services and systems and technical data and documents. The costs for fleet support are expensed as incurred and have historically been approximately 1.0% of total consolidated costs of products and services.

Program Development The following chart summarizes the time horizon between go-ahead and planned initial delivery for major Commercial Airplanes derivatives and programs.

Go-ahead and Initial Delivery

737 MAX 7	2011		2019
737 MAX 8	2011	2017	
737 MAX 9	2011		2018
737 MAX 10		2017	2020
787-10	2013	2018	
777X	2013		2020

Reflects models in development during 2018

We launched the 737 MAX 7, 8 and 9 in August 2011 and the 737 MAX 10 in June 2017. We launched the 787-10 in June 2013 and the 777X in November 2013.

Additional Considerations

The development and ongoing production of commercial aircraft is extremely complex, involving extensive coordination and integration with suppliers and highly-skilled labor from employees and other partners. Meeting or exceeding our performance and reliability standards, as well as those of customers and regulators, can be costly and technologically challenging. In addition, the introduction of new aircraft and derivatives, such as the 777X, involves increased risks associated with meeting development, production and certification schedules. As a result, our ability to deliver aircraft on time, satisfy performance and reliability standards and achieve or maintain, as applicable, program profitability is subject to significant risks. Factors that could result in lower margins (or a material charge if an airplane program has or is

determined to have reach-forward losses) include the following: changes to the program accounting quantity, customer and model mix, production costs and rates, changes to price escalation factors due to changes in the inflation rate or other economic indicators, performance or reliability issues involving completed aircraft, capital expenditures and other costs associated with increasing or adding new

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production capacity, learning curve, additional change incorporation, achieving anticipated cost reductions, flight test and certification schedules, costs, schedule and demand for new airplanes and derivatives and status of customer claims, supplier assertions and other contractual negotiations. While we believe the cost and revenue estimates incorporated in the consolidated financial statements are appropriate, the technical complexity of our airplane programs creates financial risk as additional completion costs may become necessary or scheduled delivery dates could be extended, which could trigger termination provisions, order cancellations or other financially significant exposure.

Defense, Space & Security**Business Environment and Trends****United States Government Defense Environment Overview**

The Bipartisan Budget Act of 2018, passed in February 2018, raised the 2011 Budget Control Act spending caps for fiscal years 2018 and 2019 (FY18 and FY19). The consolidated spending bills signed into law in September 2018 provide defense funding for FY19, in compliance with the revised caps. These bills also provide FY19 appropriations for most of the federal government. Full year funding for the departments and agencies not covered by enacted FY19 appropriations, including the National Aeronautics and Space Administration (NASA) and Federal Aviation Administration (FAA), remains uncertain. The unfunded departments and agencies affected by the partial government shutdown (December 22, 2018 through January 25, 2019) are now covered by a Continuing Resolution that extends funding at FY18 levels through February 15, 2019. Congress and the President must agree to FY19 appropriations or an additional Continuing Resolution to fund affected departments and agencies beyond the February 15 deadline in order to prevent a second partial government shutdown. The impact of a partial government shutdown to the Company's operations would increase as the shutdown continues.

There continues to be uncertainty with respect to future program-level appropriations for the U.S. DoD and other government agencies, including NASA. The 2011 Budget Control Act continues to mandate limits on U.S. government discretionary spending for fiscal years 2020 and 2021 (FY20 and FY21). The lower budget caps will take effect again in FY20 and FY21 unless Congress acts to raise the spending caps or to repeal or suspend the law. As a result, continued budget uncertainty and the risk of future sequestration cuts remain. Future budget cuts or investment priority changes could result in reductions, cancellations and/or delays of existing contracts or programs. Any of these impacts could have a material effect on the results of the Company's operations, financial position and/or cash flows.

Non-U.S. Defense Environment Overview The non-U.S. market continues to be driven by complex and evolving security challenges and the need to modernize aging equipment and inventories. BDS expects that it will continue to have a wide range of opportunities across Asia, Europe and the Middle East given the diverse regional threats. At the end of 2018, 30% of BDS backlog was attributable to non-U.S. customers.

Results of Operations

(Dollars in millions)

Years ended December 31,	2018	2017	2016	
Revenues	\$23,195	\$20,561	\$20,180	
% of total company revenues	23	% 22	% 22	%
Earnings from operations	\$1,594	\$2,193	\$1,678	
Operating margins	6.9	% 10.7	% 8.3	%

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Since our operating cycle is long-term and involves many different types of development and production contracts with varying delivery and milestone schedules, the operating results of a particular year, or year-to-year comparisons of revenues, earnings and backlog may not be indicative of future operating results. In addition, depending on the customer and their funding sources, our orders might be structured as annual follow-on contracts, or as one large multi-year order or long-term award. As a result, period-to-period comparisons of backlog are not necessarily indicative of future workloads. The following discussions of comparative results among periods should be viewed in this context.

Deliveries of units for new-build production aircraft, including remanufactures and modifications were as follows:

Years ended December 31,	2018	2017	2016
F/A-18 Models	17	23	25
F-15 Models	10	16	15
C-17 Globemaster III			4
CH-47 Chinook (New)	13	9	25
CH-47 Chinook (Renewed)	17	35	25
AH-64 Apache (New)		11	31
AH-64 Apache (Remanufactured)	23	57	34
P-8 Models	16	19	18
C-40A			1
Total	96	170	178

New-build satellite deliveries were as follows:

Years ended December 31,	2018	2017	2016
Commercial and civil satellites	1	3	5
Military satellites	1	1	2

Revenues

BDS revenues in 2018 increased by \$2,634 million compared with 2017 primarily due to non-US contract awards for fighters, higher weapons revenue, the final C-17 aircraft sale and higher satellites revenue. Net favorable cumulative contract catch-up adjustments to revenue for 2018 were \$214 million lower than the comparable period in the prior year, reflecting increased unfavorable adjustments on the KC-46A Tanker recorded in 2018.

BDS revenues in 2017 increased by \$381 million compared with 2016 primarily due to higher weapons revenue. Net favorable cumulative contract catch-up adjustments to revenue for 2017 were \$81 million higher than the comparable period in the prior year, reflecting decreased unfavorable adjustments on the KC-46A Tanker recorded in 2017.

Earnings From Operations

BDS earnings from operations in 2018 decreased by \$599 million compared with 2017 as earnings' growth from higher revenues was more than offset by charges of \$691 million related to winning the T-X Trainer and MQ-25 competitions, as well as \$199 million of higher KC-46A Tanker reach-forward losses. Net favorable cumulative contract catch-up adjustments to earnings for 2018 were \$315 million lower than the comparable period in the prior year, driven by higher charges on development programs in 2018.

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BDS earnings from operations in 2017 increased by \$515 million compared with 2016 primarily due to lower charges on the KC-46A Tanker and Commercial Crew programs. Higher earnings reflect the favorable impact of cumulative catch-up adjustments which were \$374 million higher in 2017 than in 2016, primarily driven by lower charges on development programs in 2017.

BDS earnings from operations include equity earnings of \$147 million, \$183 million and \$249 million primarily from our ULA and non-U.S. joint ventures in 2018, 2017 and 2016, respectively.

During 2018, 2017 and 2016, BDS recorded charges related to the KC-46A Tanker contract of \$222 million, \$23 million and \$351 million, respectively.

Backlog

Total backlog of \$57,166 million at December 31, 2018 increased by 30% from \$44,049 million at December 31, 2017, primarily due to current year contract awards in many of our programs greater than revenue recognized. Significant orders included Satellites, F/A-18 fighters, Ground-based Midcourse Defense, weapons, VC-25B Presidential Aircraft, V-22 Osprey, CH-47 Chinook, MQ-25 Stingray and T-X Trainer.

Additional Considerations

Our BDS business includes a variety of development programs which have complex design and technical challenges. Many of these programs have cost-type contracting arrangements. In these cases, the associated financial risks are primarily in reduced fees, lower profit rates or program cancellation if cost, schedule or technical performance issues arise. Examples of these programs include Ground-based Midcourse Defense, Proprietary and Space Launch System programs.

Some of our development programs are contracted on a fixed-price basis and BDS customers are increasingly seeking fixed priced proposals for new programs. Examples of significant fixed-price development programs include Commercial Crew, Saudi F-15, USAF KC-46A Tanker, T-X Trainer, VC-25B Presidential Aircraft, MQ-25 Stingray, and commercial and military satellites. New programs could also have risk for reach-forward loss upon contract award and during the period of contract performance. In the third quarter, we were awarded contracts to develop the T-X Trainer aircraft with complementary devices and the MQ-25 Stingray. We recorded orders of \$1,618 million and recognized losses of \$691 million associated with these contracts. Many development programs have highly complex designs. As technical or quality issues arise during development, we may experience schedule delays and cost impacts, which could increase our estimated cost to perform the work or reduce our estimated price, either of which could result in a material charge or otherwise adversely affect our financial condition. These programs are ongoing, and while we believe the cost and fee estimates incorporated in the financial statements are appropriate, the technical complexity of these programs creates financial risk as additional completion costs may become necessary or scheduled delivery dates could be extended, which could trigger termination provisions, the loss of satellite in-orbit incentive payments, or other financially significant exposure. These programs have risk for reach-forward losses if our estimated costs exceed our estimated contract revenues.

KC-46A Tanker See the discussion of the KC-46A Tanker program on page 23.

United Launch Alliance See the discussion of Indemnifications to ULA and Financing Commitments in Notes 8 and 15 to our Consolidated Financial Statements.

Sea Launch See the discussion of the Sea Launch receivables in Note 13 to our Consolidated Financial Statements.

Commercial Crew See the discussion of Fixed-Price Development Contracts in Note 14 to our Consolidated Financial Statements.

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T-X Trainer In September 2018, we were selected by the U.S. Air Force to build the next generation training capability, known as T-X. The program includes aircraft and simulators as well as support and ground equipment. The contract is structured as an indefinite delivery/indefinite quantity (IDIQ) fixed-price contract with a minimum of 206 aircraft and a maximum of 475 aircraft. The EMD contract is a fixed-price contract valued at \$813 million and includes five aircraft and seven simulators, with a period of performance that runs through 2022. The production and support contracts are structured as options that begin with authorization from fiscal year 2022 to 2034. In connection with winning this competition, we recorded a reach-forward loss of \$400 million associated with anticipated losses on the options for 346 aircraft that we believe are probable of being exercised. We believe that our investment in this contract positions us for additional market opportunities for both trainer and light attack aircraft.

MQ-25 Stingray In August 2018, we were awarded an EMD contract to build the MQ-25 Stingray for the U.S. Navy. The EMD contract is a fixed-price contract that includes development and delivery of four aircraft and test articles at a contract price of \$805 million. In connection with winning this competition, we recognized a reach-forward loss of \$291 million. The period of performance runs from 2018 through 2024. The MQ-25 Stingray is the U.S. Navy's first operational carrier-based unmanned aircraft, and we believe that our investment in this contract positions us for long-term leadership in autonomy and artificial intelligence technologies along with additional market opportunities.

Global Services**Business Environment and Trends**

The aerospace markets we serve include parts distribution, logistics, and other inventory services; maintenance, engineering, and upgrades; training and professional services; and information services. We expect the market to grow by around 3.5% annually.

As the size of the worldwide commercial airline fleet continues to grow, so does demand for aftermarket services designed to increase efficiency and extend the economic lives of airplanes. Airlines are using data analytics to plan flight operations and predictive maintenance to improve their productivity and efficiency. Airlines continue to look for opportunities to reduce the size and cost of their spare parts inventory, frequently outsourcing spares management to third parties.

Government services market segments are growing on pace with related fleets, but vary based on the utilization and age of the aircraft. The U.S. government services market is the single largest individual market, comprising over 50 percent of the government services markets served. Over the next decade, we expect U.S. growth to remain flat and non-U.S. fleets, led by Middle East and Asia Pacific customers, to add rotorcraft and commercial derivative aircraft at the fastest rates. We expect less than 20 percent of the worldwide fleet of military aircraft to be retired and replaced over the next ten years, driving increased demand for services to maintain aging aircraft and enhance aircraft capability.

BGS' major customer, the U.S. government, remains subject to the spending limits and uncertainty described on page 30, which could restrict the execution of certain program activities and delay new programs or competitions.

Industry Competitiveness Aviation services is a competitive market with many domestic and international competitors. This market environment has resulted in intense pressures on pricing and we expect these pressures to continue or intensify in the coming years. Continued access to global markets remains vital to our ability to fully realize our sales growth potential and long-term investment returns.

Table of Contents**Results of Operations***(Dollars in millions)*

Years ended December 31,	2018	2017	2016	
Revenues	\$17,018	\$14,581	\$13,819	
% of total company revenues	17	% 16	% 15	%
Earnings from operations	\$2,522	\$2,246	\$2,159	
Operating margins	14.8	% 15.4	% 15.6	%

Revenues

BGS revenues in 2018 increased by \$2,437 million compared with 2017 due to growth across our services portfolio, primarily driven by higher parts revenue including the acquisition of KLX. Net favorable cumulative contract catch-up adjustments to revenue were \$63 million lower in 2018 than in 2017.

BGS revenues in 2017 increased by \$762 million compared with 2016 primarily due to higher commercial parts revenues. Net favorable cumulative contract catch-up adjustments to revenue were \$19 million higher in 2017 than in 2016.

Earnings From Operations

BGS earnings from operations in 2018 increased by \$276 million compared with 2017 primarily due to higher revenues, partially offset by higher period costs. Net favorable cumulative contract catch-up adjustments were \$25 million lower in 2018 than in 2017.

BGS earnings from operations in 2017 increased by \$87 million compared with 2016 primarily due to higher revenues, partially offset by commercial services mix. Net favorable cumulative contract catch-up adjustments were \$51 million lower in 2017 than in 2016.

Backlog

BGS total backlog of \$21,008 million at December 31, 2018 increased by 7% from \$19,605 million at December 31, 2017, primarily due to current year contract awards, partially offset by revenue recognized on contracts awarded in prior years.

Additional Considerations

KLX See the discussion of the KLX acquisition in Note 3 to our Consolidated Financial Statements.

Table of Contents**Boeing Capital****Business Environment and Trends**

BCC's gross customer financing and investment portfolio at December 31, 2018 totaled \$2,792 million. A substantial portion of BCC's portfolio is related to customers that we believe have less than investment-grade credit. BCC's portfolio is also concentrated by varying degrees across Boeing aircraft product types, most notably 717 and 747-8 aircraft.

BCC provided customer financing of \$601 million and \$480 million during 2018 and 2017. While we may be required to fund a number of new aircraft deliveries in 2019 and/or provide refinancing for existing bridge debt, we expect alternative financing will be available at reasonable prices from broad and globally diverse sources. However, a number of factors could cause BCC's new business volume to increase further, including if the Export-Import Bank of the United States continues to be unable to, or does not, approve new financing transactions.

Aircraft values and lease rates are impacted by the number and type of aircraft that are currently out of service. Approximately 1,700 western-built commercial jet aircraft (6.7% of current world fleet) were parked at the end of 2018, including both in-production and out-of-production aircraft types. Of these parked aircraft, approximately 2% are not expected to return to service. At the end of 2017 and 2016, 8.3% and 8.8% of the western-built commercial jet aircraft were parked. Aircraft valuations could decline if significant numbers of additional aircraft, particularly types with relatively few operators, are placed out of service.

Results of Operations

(Dollars in millions)

Years ended December 31,	2018	2017	2016
Revenues	\$274	\$307	\$298
Earnings from operations	\$79	\$114	\$59
Operating margins	29 %	37 %	20 %

Revenues

BCC segment revenues consist principally of lease income from equipment under operating lease, interest income from financing receivables and notes, and other income. BCC's revenues in 2018 decreased by \$33 million compared with 2017 primarily due to lower lease income driven by a smaller portfolio, partially offset by gain on sale of assets. BCC's revenues in 2017 were consistent with 2016.

Earnings From Operations

BCC's earnings from operations are presented net of interest expense, provision for (recovery of) losses, asset impairment expense, depreciation on leased equipment and other operating expenses. Earnings from operations in 2018 decreased by \$35 million primarily due to lower revenues. Earnings from operations in 2017 increased by \$55 million primarily due to lower asset impairment and depreciation expenses.

Table of Contents**Financial Position**

The following table presents selected financial data for BCC as of December 31:

<i>(Dollars in millions)</i>	2018	2017
Customer financing and investment portfolio, net	\$2,790	\$3,003
Other assets, primarily cash and short-term investments	717	677
Total assets	\$3,507	\$3,680
Other liabilities, primarily deferred income taxes	\$523	\$653
Debt, including intercompany loans	2,487	2,523
Equity	497	504
Total liabilities and equity	\$3,507	\$3,680
Debt-to-equity ratio	5.0-to-1	5.0-to-1

BCC's customer financing and investment portfolio at December 31, 2018 decreased from December 31, 2017, primarily due to \$812 million of note payoffs, asset sales and portfolio run-off, partially offset by new volume.

Aircraft subject to leases with a carrying value of approximately \$84 million are scheduled to be returned off lease during 2019. We are seeking to remarket these aircraft or have the leases extended.

BCC enters into certain transactions with Boeing, reflected in Unallocated items, eliminations and other, in the form of intercompany guarantees and other subsidies that mitigate the effects of certain credit quality or asset impairment issues on the BCC segment.

Liquidity and Capital Resources**Cash Flow Summary**

(Dollars in millions)

Years ended December 31,	2018	2017	2016
Net earnings	\$10,460	\$8,458	\$5,034
Non-cash items	2,578	2,636	2,540
Changes in working capital	2,284	2,252	2,922
Net cash provided by operating activities	15,322	13,346	10,496
Net cash used by investing activities	(4,621)	(2,058)	(3,378)
Net cash used by financing activities	(11,722)	(11,350)	(9,587)
Effect of exchange rate changes on cash and cash equivalents	(53)	80	(33)
Net (decrease) / increase in cash & cash equivalents, including restricted	(1,074)	18	(2,502)
Cash & cash equivalents, including restricted, at beginning of year	8,887	8,869	11,371
Cash & cash equivalents, including restricted, at end of year	\$7,813	\$8,887	\$8,869

Operating Activities Net cash provided by operating activities was \$15.3 billion during 2018, compared with \$13.3 billion during 2017 and \$10.5 billion in 2016. The increase of \$2.0 billion in 2018 was primarily driven by higher earnings and lower spending on inventory, partially offset by lower advances. The increase of \$2.9 billion in 2017 was primarily driven by higher advances more than offsetting inventory increases.

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Advances and progress billings increased by \$2.6 billion in 2018, increased by \$4.7 billion in 2017 and decreased by \$1.3 billion in 2016. During 2017, our discretionary contributions to our pension plans included \$14.4 million shares of our common stock with an aggregate value of \$3.5 billion and \$0.5 billion in cash. Discretionary contributions to our pension plans were insignificant in 2018 and 2016.

Investing Activities Cash used by investing activities during 2018, 2017 and 2016 was \$4.6 billion, \$2.1 billion and \$3.4 billion primarily due to acquisitions during the second half of 2018 and the timing of investments. Acquisitions net of cash acquired were \$3.2 billion in 2018, compared with \$0.3 billion in 2017 and 2016. Capital expenditures totaled \$1.7 billion in both 2018 and 2017, down from \$2.6 billion in 2016. We expect capital expenditures in 2019 to be higher than 2018. Net proceeds from investments was \$0.3 billion in 2018 and insignificant in 2017, compared with net contributions to investments of \$0.5 billion in 2016.

Financing Activities Cash used by financing activities was \$11.7 billion during 2018, an increase of \$0.4 billion compared with 2017 primarily due to higher dividend payments partially offset by higher net borrowings. Cash used by financing activities was \$11.4 billion during 2017, an increase of \$1.8 billion compared with 2016, primarily due to higher share repurchases and dividend payments. Net borrowings were \$1.4 billion in 2018, \$1.1 billion in 2017 and insignificant in 2016.

At December 31, 2018 and 2017 the recorded balance of debt was \$13.8 billion and \$11.1 billion of which \$3.2 billion and \$1.3 billion was classified as short-term. At December 31, 2018 and 2017 this included \$2.5 billion of debt attributable to BCC, of which \$0.5 billion and \$0.9 billion were classified as short-term.

During 2018 and 2017 we repurchased 26.1 million and 46.1 million shares totaling \$9.0 billion and \$9.2 billion through our open market share repurchase program. In 2018 and 2017, we had 0.7 million shares transferred to us from employees for tax withholdings. At December 31, 2018, the amount available under the share repurchase plan, announced on December 17, 2018, totaled \$20 billion.

Capital Resources We have substantial borrowing capacity. Any future borrowings may affect our credit ratings and are subject to various debt covenants as described below. We have a commercial paper program that serves as a source of short-term liquidity. At December 31, 2018 and 2017, commercial paper borrowings totaling \$1,895 million and \$600 million, which were supported by unused commitments under the revolving credit agreement. We had no commercial paper borrowings in 2016. At December 31, 2018, we had \$5.1 billion of unused borrowing capacity on revolving credit line agreements. We anticipate that these credit lines will primarily serve as backup liquidity to support our general corporate borrowing needs. Financing commitments totaled \$19.5 billion and \$10.2 billion at December 31, 2018 and 2017. The increase primarily relates to commercial airplane orders received in 2018. We anticipate that we will not be required to fund a significant portion of our financing commitments as we continue to work with third party financiers to provide alternative financing to customers. Historically, we have not been required to fund significant amounts of outstanding commitments. However, there can be no assurances that we will not be required to fund greater amounts than historically required. In addition, many of our non-U.S. customers finance aircraft purchases through the Export-Import Bank of the United States. Following the expiration of the bank's charter on June 30, 2015, the bank's charter was reauthorized in December 2015. The bank is now authorized through September 30, 2019. However, until the U.S. Senate confirms members sufficient to reconstitute a quorum of the bank's board of directors, the bank will not be able to approve any transaction totaling more than \$10 million. As a result, we may fund additional commitments and/or enter into new financing arrangements with customers.

In the event we require additional funding to support strategic business opportunities, our commercial aircraft financing commitments, unfavorable resolution of litigation or other loss contingencies, or other business requirements, we expect to meet increased funding requirements by issuing commercial paper or term debt. We believe our ability to access external capital resources should be sufficient to satisfy existing short-term and long-term commitments and plans, and also to provide adequate financial flexibility

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to take advantage of potential strategic business opportunities should they arise within the next year. However, there can be no assurance of the cost or availability of future borrowings under our commercial paper program or in the debt markets.

At December 31, 2018 and 2017, our pension plans were \$15.3 billion and \$16.4 billion underfunded as measured under GAAP. On an Employee Retirement Income Security Act (ERISA) basis our plans are 96% funded at December 31, 2018 with minimal required contributions in 2019. We do not expect to make contributions to our pension plans in 2019. We may be required to make higher contributions to our pension plans in future years.

At December 31, 2018, we were in compliance with the covenants for our debt and credit facilities. The most restrictive covenants include a limitation on mortgage debt and sale and leaseback transactions as a percentage of consolidated net tangible assets (as defined in the credit agreements), and a limitation on consolidated debt as a percentage of total capital (as defined). When considering debt covenants, we continue to have substantial borrowing capacity.

Contractual Obligations

The following table summarizes our known obligations to make future payments pursuant to certain contracts as of December 31, 2018, and the estimated timing thereof.

<i>(Dollars in millions)</i>	Total	Less than 1 year	1-3 years	3-5 years	After 5 years
Long-term debt (including current portion)	\$13,932	\$3,137	\$1,927	\$1,326	\$7,542
Interest on debt	6,458	523	891	752	4,292
Pension and other postretirement cash requirements	14,379	606	1,627	5,050	7,096
Capital lease obligations	164	58	75	20	11
Operating lease obligations	1,850	278	432	291	849
Purchase obligations not recorded on the Consolidated Statements of Financial Position	126,693	51,784	41,470	22,649	10,790
Purchase obligations recorded on the Consolidated Statements of Financial Position	19,900	19,076	716	80	28
Total contractual obligations ⁽¹⁾	\$183,376	\$75,462			