

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

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**FORM 10-Q**

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**QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

For the Quarterly Period Ended March 31, 2018

or

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

Commission File Number 1-16411

**NORTHROP GRUMMAN CORPORATION**

(Exact name of registrant as specified in its charter)

**DELAWARE**

(State or other jurisdiction of  
incorporation or organization)

**80-0640649**

(I.R.S. Employer  
Identification No.)

**2980 Fairview Park Drive,  
Falls Church, Virginia**

(Address of principal executive offices)

**22042**

(Zip Code)

**(703) 280-2900**

(Registrant's telephone number, including area code)

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 and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted 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 and post such files).

Yes

No

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  (Do not check if a smaller reporting company)

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

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date.  
As of April 20, 2018, 174,384,166 shares of common stock were outstanding.

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## NORTHROP GRUMMAN CORPORATION

## PART I. FINANCIAL INFORMATION

## Item 1. Financial Statements

CONDENSED CONSOLIDATED STATEMENTS OF EARNINGS AND COMPREHENSIVE INCOME  
(Unaudited)

<i>\$ in millions, except per share amounts</i>	Three Months Ended March 31	
	2018	2017
<b>Sales</b>		
Product	\$ 4,289	\$ 3,997
Service	2,446	2,413
Total sales	6,735	6,410
<b>Operating costs and expenses</b>		
Product	3,265	2,983
Service	1,905	1,867
General and administrative expenses	711	698
<b>Operating income</b>	854	862
Other income (expense)		
Interest expense	(143)	(75)
Net FAS (non-service) pension benefit (expense)	120	(18)
Other, net	40	19
Earnings before income taxes	871	788
Federal and foreign income tax expense	132	138
<b>Net earnings</b>	\$ 739	\$ 650
<b>Basic earnings per share</b>	\$ 4.24	\$ 3.72
Weighted-average common shares outstanding, in millions	174.3	174.8
<b>Diluted earnings per share</b>	\$ 4.21	\$ 3.69
Weighted-average diluted shares outstanding, in millions	175.4	176.1
Net earnings (from above)	\$ 739	\$ 650
Other comprehensive income		
Change in unamortized benefit plan costs, net of tax	86	99
Change in cumulative translation adjustment	(2)	4
Other, net	(1)	2
Other comprehensive income, net of tax	83	105
<b>Comprehensive income</b>	\$ 822	\$ 755

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

## NORTHROP GRUMMAN CORPORATION

CONDENSED CONSOLIDATED STATEMENTS OF FINANCIAL POSITION  
(Unaudited)

<i>\$ in millions</i>	March 31, 2018	December 31, 2017
<b>Assets</b>		
Cash and cash equivalents	\$ 10,369	\$ 11,225
Accounts receivable, net	1,241	1,054
Unbilled receivables, net	3,869	3,465
Inventoried costs, net	435	398
Prepaid expenses and other current assets	243	445
<b>Total current assets</b>	<b>16,157</b>	<b>16,587</b>
Property, plant and equipment, net of accumulated depreciation of \$5,119 for 2018 and \$5,066 for 2017	4,285	4,225
Goodwill	12,455	12,455
Deferred tax assets	474	447
Other non-current assets	1,424	1,414
<b>Total assets</b>	<b>\$ 34,795</b>	<b>\$ 35,128</b>
<b>Liabilities</b>		
Trade accounts payable	\$ 1,395	\$ 1,661
Accrued employee compensation	1,204	1,382
Advance payments and amounts in excess of costs incurred	1,479	1,761
Other current liabilities	2,337	2,288
<b>Total current liabilities</b>	<b>6,415</b>	<b>7,092</b>
Long-term debt, net of current portion of \$868 for 2018 and \$867 for 2017	14,392	14,399
Pension and other post-retirement benefit plan liabilities	5,362	5,511
Other non-current liabilities	946	994
<b>Total liabilities</b>	<b>27,115</b>	<b>27,996</b>
<b>Commitments and contingencies (Note 7)</b>		
<b>Shareholders' equity</b>		
Preferred stock, \$1 par value; 10,000,000 shares authorized; no shares issued and outstanding	—	—
Common stock, \$1 par value; 800,000,000 shares authorized; issued and outstanding: 2018—174,382,256 and 2017—174,085,619	174	174
Paid-in capital	—	44
Retained earnings	13,205	11,632
Accumulated other comprehensive loss	(5,699)	(4,718)
<b>Total shareholders' equity</b>	<b>7,680</b>	<b>7,132</b>
<b>Total liabilities and shareholders' equity</b>	<b>\$ 34,795</b>	<b>\$ 35,128</b>

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

## NORTHROP GRUMMAN CORPORATION

CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS  
(Unaudited)

<i>\$ in millions</i>	Three Months Ended March 31	
	2018	2017
<b>Operating activities</b>		
Net earnings	\$ 739	\$ 650
Adjustments to reconcile to net cash used in operating activities:		
Depreciation and amortization	122	104
Stock-based compensation	19	17
Deferred income taxes	(55)	(9)
Changes in assets and liabilities:		
Accounts receivable, net	(187)	(317)
Unbilled receivables, net	(404)	(665)
Inventoried costs, net	(37)	(27)
Prepaid expenses and other assets	13	(53)
Accounts payable and other liabilities	(590)	(357)
Income taxes payable, net	197	152
Retiree benefits	(56)	86
Other, net	2	(20)
Net cash used in operating activities	(237)	(439)
<b>Investing activities</b>		
Capital expenditures	(305)	(216)
Other, net	(2)	2
Net cash used in investing activities	(307)	(214)
<b>Financing activities</b>		
Common stock repurchases	—	(229)
Cash dividends paid	(198)	(166)
Payments of employee taxes withheld from share-based awards	(79)	(90)
Net (payments to) proceeds from credit facilities	(14)	—
Other, net	(21)	—
Net cash used in financing activities	(312)	(485)
Decrease in cash and cash equivalents	(856)	(1,138)
Cash and cash equivalents, beginning of year	11,225	2,541
Cash and cash equivalents, end of period	\$ 10,369	\$ 1,403

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

## NORTHROP GRUMMAN CORPORATION

CONDENSED CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY  
(Unaudited)

<i>\$ in millions, except per share amounts</i>	Three Months Ended March 31	
	2018	2017
<b>Common stock</b>		
Beginning of year	\$ 174	\$ 175
Common stock repurchased	—	(1)
Shares issued for employee stock awards and options	—	1
End of period	174	175
<b>Paid-in capital</b>		
Beginning of year	44	—
Stock compensation	(44)	—
End of period	—	—
<b>Retained earnings</b>		
Beginning of year	11,632	10,734
Impact from adoption of ASU 2018-02 and ASU 2016-01 (See Note 1)	1,064	—
Common stock repurchased	—	(215)
Net earnings	739	650
Dividends declared	(195)	(159)
Stock compensation	(35)	(72)
End of period	13,205	10,938
<b>Accumulated other comprehensive loss</b>		
Beginning of year	(4,718)	(5,546)
Impact from adoption of ASU 2018-02 and ASU 2016-01 (See Note 1)	(1,064)	—
Other comprehensive income, net of tax	83	105
End of period	(5,699)	(5,441)
Total shareholders' equity	\$ 7,680	\$ 5,672
Cash dividends declared per share	\$ 1.10	\$ 0.90

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

**NORTHROP GRUMMAN CORPORATION****NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)****1. BASIS OF PRESENTATION****Principles of Consolidation and Reporting**

These unaudited condensed consolidated financial statements (the “financial statements”) include the accounts of Northrop Grumman Corporation and its subsidiaries and joint ventures or other investments for which we consolidate the financial results (herein referred to as “Northrop Grumman,” the “company,” “we,” “us,” or “our”). Material intercompany accounts, transactions and profits are eliminated in consolidation. Investments in equity securities and joint ventures where the company has significant influence, but not control, are accounted for using the equity method.

The financial statements are prepared in conformity with accounting principles generally accepted in the United States of America (“GAAP” or “FAS”) and in accordance with the rules of the Securities and Exchange Commission (SEC) for interim reporting. The financial statements include adjustments of a normal recurring nature considered necessary by management for a fair presentation of the company’s unaudited condensed consolidated financial position, results of operations and cash flows.

The results reported in these financial statements are not necessarily indicative of results that may be expected for the entire year. These financial statements should be read in conjunction with the information contained in the company’s Annual Report on Form 10-K for the year ended December 31, 2017 (2017 Annual Report on Form 10-K).

The quarterly information is labeled using a calendar convention; that is, first quarter is consistently labeled as ending on March 31, second quarter as ending on June 30 and third quarter as ending on September 30. It is the company’s long-standing practice to establish actual interim closing dates using a “fiscal” calendar, in which we close our books on a Friday near these quarter-end dates in order to normalize the potentially disruptive effects of quarterly closings on business processes. This practice is only used at interim periods within a reporting year.

As previously announced, effective January 1, 2018, we adopted Accounting Standards Codification (ASC) Topic 606, *Revenue from Contracts with Customers*, and Accounting Standards Update (ASU) No. 2017-07, *Compensation Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost*, using the full retrospective method. The adoption of these standards are reflected in the amounts and disclosures set forth in this Form 10-Q and the effect of these standards on the company’s unaudited condensed consolidated statement of earnings and comprehensive income for the three months ended March 31, 2017 and unaudited condensed consolidated statement of financial position as of December 31, 2017 is reflected in Note 11.

**Accounting Estimates**

Preparation of the financial statements requires management to make estimates and judgments that affect the reported amounts of assets and liabilities and the disclosure of contingencies at the date of the financial statements, as well as the reported amounts of sales and expenses during the reporting period. Estimates have been prepared using the most current and best available information; however, actual results could differ materially from those estimates.

**Revenue Recognition**

The majority of our sales are derived from long-term contracts with the U.S. Government for the production of goods, the provision of services, or a combination of both. The company classifies sales as product or service based on the predominant attributes of each contract.

Under ASC Topic 606, the company recognizes revenue for each separately identifiable performance obligation in a contract representing a promise to transfer a distinct good or service to a customer. In most cases, goods and services provided under the company’s contracts are accounted for as single performance obligations due to the complex and integrated nature of our products and services. These contracts generally require significant integration of a group of goods and/or services to deliver a combined output. In some contracts, the company provides multiple distinct goods or services to a customer, most commonly when a contract covers multiple phases of the product lifecycle (development, production, maintenance and/or support). In those cases, the company accounts for the distinct contract deliverables as separate performance obligations and allocates the transaction price to each performance obligation based on its relative standalone selling price, which is generally estimated using the cost plus a reasonable margin approach of ASC Topic 606. Warranties are provided on certain contracts, but do not typically provide for services beyond standard assurances and are therefore not within the scope of ASC Topic 606. Likewise, our

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accounting for costs to obtain or fulfill a contract was not significantly impacted by the adoption of ASC Topic 606 as these costs are not material.

A contract modification exists when the parties to a contract approve a change in the scope or price of a contract. Contracts are often modified for changes in contract specifications or requirements. Most of the company's contract modifications are for goods or services that are not distinct in the context of the contract and are therefore accounted for as part of the original performance obligation through a cumulative estimate-at-completion (EAC) adjustment.

The company recognizes revenue as control is transferred to the customer, either over time or at a point in time. In general, our U.S. government contracts contain termination for convenience clauses that generally entitle the customer to goods produced and/or in-process. Similarly, our non-U.S. government contracts generally contain contractual termination clauses or entitle the company to payment for work performed to date for goods and services that do not have an alternative use. As control is effectively transferred as we perform on our contracts and we are typically entitled to cost plus a reasonable margin for work in process if the contract is terminated, we generally recognize revenue over time on a cost-to-cost basis (cost incurred relative to total cost estimated at completion) as the company believes this represents the most appropriate measurement towards satisfaction of its performance obligations. Revenue for contracts in which the control of goods produced does not transfer until delivery to the customer is recognized at a point in time (i.e. typically upon delivery).

**Contract Estimates**

Use of the cost-to-cost method requires us to make reasonably dependable estimates regarding the revenue and cost associated with the design, manufacture and delivery of our products and services. The company estimates profit on these contracts as the difference between total estimated sales and total estimated cost at completion and recognizes that profit as costs are incurred. Significant judgment is used to estimate total revenue and cost at completion.

Contract sales may include estimates of variable consideration, including cost or performance incentives (such as award and incentive fees), contract claims and requests for equitable adjustment (REAs). Variable consideration is included in total estimated sales to the extent it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is subsequently resolved. We estimate variable consideration at the most likely amount to which we expect to be entitled.

We recognize changes in estimated contract sales or costs and the resulting changes in contract profit on a cumulative basis. Cumulative EAC adjustments represent the cumulative effect of the changes on current and prior periods; sales and operating margins in future periods are recognized as if the revised estimates had been used since contract inception. If it is determined that a loss is expected to result on an individual performance obligation, the entire amount of the estimable future loss, including an allocation of general and administrative (G&A) costs, is charged against income in the period the loss is identified. Each loss provision is first offset against costs included in unbilled accounts receivable or inventoried costs; remaining amounts are reflected in current liabilities.

Significant EAC adjustments on a single contract could have a material effect on the company's financial statements. When such adjustments occur, we generally disclose the nature, underlying conditions and financial impact of the adjustments. No discrete event or adjustments to an individual contract were material to the financial statements during the three months ended March 31, 2018 and 2017.

The following table presents the effect of aggregate net EAC adjustments:

<i>\$ in millions, except per share data</i>	Three Months Ended March 31	
	2018	2017
Operating Income	\$ 116	\$ 141
Net Earnings <sup>(1)</sup>	92	92
Diluted earnings per share <sup>(1)</sup>	0.52	0.52

<sup>(1)</sup> Based on statutory tax rates in effect for each period presented.

Revenue recognized from performance obligations satisfied in previous reporting periods was \$133 million and \$145 million for the three months ended March 31, 2018 and 2017, respectively.

**Backlog**

Backlog represents the future sales we expect to recognize on firm orders received by the company and is equivalent to the company's remaining performance obligations at the end of each period. It comprises both funded backlog (firm orders for which funding is authorized and appropriated) and unfunded backlog. Unexercised contract options



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and indefinite delivery indefinite quantity (IDIQ) contracts are not included in backlog until the time the option or IDIQ task order is exercised or awarded.

Company backlog as of March 31, 2018 was \$42.3 billion. We expect to recognize approximately 50 percent and 75 percent of our March 31, 2018 backlog as revenue over the next 12 and 24 months, respectively, with the remainder to be recognized thereafter.

**Contract Assets and Liabilities**

For each of the company's contracts, the timing of revenue recognition, customer billings, and cash collections results in a net contract asset or liability at the end of each reporting period. Fixed-price contracts are typically billed to the customer either using progress payments, whereby amounts are billed monthly as costs are incurred or work is completed, or performance based payments, which are based upon the achievement of specific, measurable events or accomplishments defined and valued at contract inception. Cost-type contracts are typically billed to the customer on a monthly or semi-monthly basis.

Contract assets consist of unbilled receivables, primarily related to long-term contracts where revenue recognized under the cost-to-cost method exceeds amounts billed to customers. Unbilled receivables are classified as current assets and, in accordance with industry practice, include amounts that may be billed and collected beyond one year due to the long-cycle nature of many of our contracts. Accumulated contract costs in unbilled receivables include direct production costs, factory and engineering overhead, production tooling costs, and, for government contracts, allowable G&A. Unbilled receivables also include certain estimates of variable consideration described above. These contract assets are not considered a significant financing component of the company's contracts as the payment terms are intended to protect the customer in the event the company does not perform on its obligations under the contract.

Contract liabilities include advance payments and billings in excess of revenue recognized. Certain customers make advance payments prior to the satisfaction of the company's obligations on the contract. These amounts are recorded as contract liabilities until such obligations are satisfied, either over time as costs are incurred or at a point in time when deliveries are made. Contract liabilities are not a significant financing component as they are generally utilized to pay for contract costs within a one-year period or are used to ensure the customer meets contractual requirements.

Net contract assets (liabilities) are as follows:

<i>\$ in millions</i>	<b>March 31, 2018</b>	December 31, 2017	\$ Change	% Change
Unbilled receivables, net	\$ <b>3,869</b>	\$ 3,465	\$ 404	12 %
Advance payments and amounts in excess of costs incurred	<b>(1,479)</b>	(1,761)	282	(16)%
Net contract assets (liabilities)	\$ <b>2,390</b>	\$ 1,704	\$ 686	40 %

The amount of revenue recognized for the three months ended March 31, 2018 and 2017 that was included in the opening contract liability balances was \$706 million and \$578 million, respectively.

The change in the balances of the company's contract assets and liabilities primarily results from timing differences between company performance and customer payments. The increase in net contract assets during the three months ended March 31, 2018, is principally due to higher sales on restricted programs and the timing of collections on certain Manned Aircraft programs at Aerospace Systems.

**Disaggregation of Revenue**

See Note 10 for information regarding the company's sales by customer type, contract type and geographic region for each of our segments. We believe those categories best depict how the nature, amount, timing and uncertainty of our revenue and cash flows are affected by economic factors.

**NORTHROP GRUMMAN CORPORATION****Accumulated Other Comprehensive Loss**

The components of accumulated other comprehensive loss are as follows:

<i>\$ in millions</i>	<b>March 31, 2018</b>	December 31, 2017
Unamortized benefit plan costs, net of tax benefit of \$1,968 for 2018 and \$3,056 for 2017	\$ (5,560)	\$ (4,586)
Cumulative translation adjustment	(138)	(136)
Other, net	(1)	4
<b>Total accumulated other comprehensive loss</b>	<b>\$ (5,699)</b>	<b>\$ (4,718)</b>

Unamortized benefit plan costs as of March 31, 2018 reflect a reclassification from accumulated other comprehensive loss to retained earnings of \$1.1 billion of stranded tax effects resulting from the Tax Cuts and Jobs Act (the "2017 Tax Act"). This reclassification resulted from the company's early adoption of ASU 2018-02 on January 1, 2018. See "Accounting Standards Updates" below for more information.

Unamortized benefit plan costs consist primarily of net after-tax actuarial losses totaling \$5.7 billion and \$4.7 billion as of March 31, 2018 and December 31, 2017, respectively. Net actuarial gains or losses are re-determined annually or upon remeasurement events and principally arise from changes in the interest rate used to discount our benefit obligations and differences between expected and actual returns on plan assets.

Reclassifications from accumulated other comprehensive loss to net earnings related to the amortization of benefit plan costs were \$86 million and \$99 million, net of taxes, for the three months ended March 31, 2018 and 2017, respectively. The reclassifications represent the amortization of net actuarial losses and prior service credits, and are included in the computation of net periodic pension cost. See Note 8 for further information.

Reclassifications from accumulated other comprehensive loss to net earnings relating to cumulative translation adjustments and effective cash flow hedges were not material for the three months ended March 31, 2018 and 2017.

**Related Party Transactions**

The company had no material related party transactions in any period presented.

**Accounting Standards Updates**

On February 14, 2018, the Financial Accounting Standards Board (FASB) issued ASU 2018-02, *Income Statement - Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income*. ASU 2018-02 allows companies to reclassify stranded tax effects resulting from the 2017 Tax Act from accumulated other comprehensive income to retained earnings. As described above, the company elected to early adopt ASU 2018-02 on January 1, 2018, which resulted in a reclassification of \$1.1 billion of stranded tax effects, principally related to our unamortized benefit plan costs, from accumulated other comprehensive loss to retained earnings. This reclassification included \$73 million of other income tax effects related to a reduction in the federal benefit associated with state taxes. Adoption of ASU 2018-02 did not have a material impact on the company's results of operations and/or cash flows.

On March 10, 2017, the FASB issued ASU No. 2017-07, *Compensation Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost*. ASU 2017-07 requires employers that sponsor defined benefit pension and/or other post-retirement benefit plans to report the service cost component of net benefit cost in the same line item as other compensation costs arising from services rendered by the pertinent employees during the period. Employers are required to present the other components of net benefit costs in the income statement separately from the service cost component and outside a subtotal of income from operations. Additionally, only the service cost component of net periodic pension cost is eligible for asset capitalization. We adopted ASU 2017-07 on January 1, 2018 using the retrospective method. See Note 11 for information regarding the effect of adopting ASU 2017-07 on our unaudited condensed consolidated statement of earnings and comprehensive income for the three months ended March 31, 2017. Adoption of ASU 2017-07 did not have a material impact on our consolidated statements of financial position and/or cash flows.

On February 25, 2016, the FASB issued ASU No. 2016-02, *Leases (Topic 842)*. ASU 2016-02 supersedes existing lease guidance, including ASC 840 - *Leases*. Among other things, ASU 2016-02 requires recognition of a right-of-use asset and liability for future lease payments for contracts that meet the definition of a lease and requires disclosure of certain information about leasing arrangements. ASU 2016-02 will be effective January 1, 2019, although early adoption is permitted, and may be adopted using a modified retrospective transition method that applies the new lease requirements at the beginning of the earliest period presented in the financial statements. The

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FASB has proposed a change that would allow a company to elect an optional transition method that applies the new lease requirements through a cumulative-effect adjustment in the period of adoption. We expect to adopt the standard on January 1, 2019 using the proposed optional transition method if finalized in its current form. We are reviewing our leases to determine the effect ASU 2016-02 will have on the company's consolidated financial position, annual results of operations and/or cash flows. We currently expect the right-of-use assets and lease liabilities recognized upon adoption will each approximate our future minimum lease payments, as disclosed in our Annual Reports on Form 10-K. We do not expect ASU 2016-02 to have a material impact on our annual results of operations and/or cash flows.

On January 5, 2016, the FASB issued ASU No. 2016-01, *Financial Instruments (Topic 825): Recognition and Measurement of Financial Assets and Financial Liabilities*. ASU 2016-01 requires equity investments that are not accounted for under the equity method of accounting or that do not result in consolidation of the investee to be measured at fair value with changes recognized in net earnings. ASU 2016-01 also eliminates the available-for-sale classification for equity investments that recognized changes in fair value as a component of other comprehensive income. We adopted ASU 2016-01 on January 1, 2018 using the modified retrospective method, which resulted in a \$4 million (net of tax) cumulative-effect adjustment from accumulated other comprehensive loss to retained earnings. Adoption of ASU 2016-01 did not have a material impact on our results of operations and/or cash flows.

On May 28, 2014, the FASB issued ASU No. 2014-09, *Revenue from Contracts with Customers (Topic 606)*. Topic 606 supersedes previous revenue recognition guidance, including ASC 605-35, *Revenue Recognition - Construction-Type and Production-Type Contracts*, and outlines a single set of comprehensive principles for recognizing revenue under U.S. GAAP. Among other things, it requires companies to identify contractual performance obligations and determine whether revenue should be recognized at a point in time or over time. The primary impact of the adoption of ASC Topic 606 was that, in most cases, the accounting for those contracts where we previously recognized revenue as units were delivered changed under ASC Topic 606 such that we now recognize revenue as costs are incurred. In addition, for certain of our contracts, there is a change in the number of performance obligations under ASC Topic 606, which has altered the timing of revenue and margin recognition.

We adopted ASC Topic 606 on January 1, 2018 using the full retrospective method. We applied the transition practical expedient related to remaining performance obligations for reporting periods presented before the date of initial application. No other practical expedients were applied. The cumulative effect of adopting ASC Topic 606 was a \$148 million increase to retained earnings at January 1, 2016. See Note 11 for information regarding the effect of adopting ASC Topic 606 on our unaudited condensed consolidated statement of earnings and comprehensive income for the three months ended March 31, 2017 and unaudited condensed consolidated statement of financial position as of December 31, 2017.

Other accounting standards updates issued, but not effective until after March 31, 2018, are not expected to have a material effect on the company's unaudited condensed consolidated financial position, annual results of operations and/or cash flows.

## 2. PENDING ACQUISITION OF ORBITAL ATK

On September 17, 2017, the company entered into a definitive merger agreement to acquire all of the outstanding shares of Orbital ATK, Inc. (Orbital ATK) for approximately \$7.8 billion in cash, plus the assumption of approximately \$1.4 billion in net debt (the "Orbital ATK Acquisition"). Under the terms of the merger agreement, Orbital ATK shareholders are to receive all-cash consideration of \$134.50 per share. We expect to fund the Orbital ATK Acquisition with the proceeds from our debt financing completed in October 2017 and cash on hand. On November 29, 2017, Orbital ATK shareholders approved the proposed Orbital ATK Acquisition. On February 12, 2018, the European Commission approved the proposed Orbital ATK Acquisition. We currently expect the transaction to close in the first half of 2018, after receiving regulatory approvals. Upon completion of the Orbital ATK Acquisition, we plan to establish Orbital ATK as a new, fourth business sector named Northrop Grumman Innovation Systems.

## 3. EARNINGS PER SHARE, SHARE REPURCHASES AND DIVIDENDS ON COMMON STOCK

### Basic Earnings Per Share

We calculate basic earnings per share by dividing net earnings by the weighted-average number of shares of common stock outstanding during each period.

**NORTHROP GRUMMAN CORPORATION**
**Diluted Earnings Per Share**

Diluted earnings per share primarily include the dilutive effect of awards granted to employees under stock-based compensation plans. The dilutive effect of these securities totaled 1.1 million shares and 1.3 million shares for the three months ended March 31, 2018 and 2017, respectively.

**Share Repurchases**

On September 16, 2015, the company's board of directors authorized a share repurchase program of up to \$4.0 billion of the company's common stock (the "2015 Repurchase Program"). Repurchases under the 2015 Repurchase Program commenced in March 2016. As of March 31, 2018, repurchases under the 2015 Repurchase Program totaled \$1.7 billion; \$2.3 billion remained under this share repurchase authorization. By its terms, the 2015 Repurchase Program is set to expire when we have used all authorized funds for repurchases.

Share repurchases take place from time to time, subject to market conditions and management's discretion, in the open market or in privately negotiated transactions. The company retires its common stock upon repurchase and, in the periods presented, has not made any purchases of common stock other than in connection with these publicly announced repurchase programs.

The table below summarizes the company's share repurchases to date under the authorizations described above:

Repurchase Program Authorization Date	Amount Authorized (in millions)	Total Shares Retired (in millions)	Average Price Per Share <sup>(1)</sup>	Date Completed	Shares Repurchased (in millions)	
					Three Months Ended March 31	
					2018	2017
September 16, 2015	\$ 4,000	7.4	\$ 222.93		—	0.9

<sup>(1)</sup> Includes commissions paid.

**Dividends on Common Stock**

In January 2018, the company increased the quarterly common stock dividend 10 percent to \$1.10 per share from the previous amount of \$1.00 per share.

In May 2017, the company increased the quarterly common stock dividend 11 percent to \$1.00 per share from the previous amount of \$0.90 per share.

**4. INCOME TAXES**

\$ in millions	Three Months Ended March 31	
	2018	2017
Federal and foreign income tax expense	\$ 132	\$ 138
Effective income tax rate	15.2%	17.5%

The company's effective tax rate of 15.2 percent for the three months ended March 31, 2018 was lower as compared with the same period in 2017 principally due to the reduction of the U.S. corporate income tax rate from 35 percent to 21 percent as a result of the 2017 Tax Act. Both periods reflect comparable tax benefits associated with research credits. In addition, the company's effective tax rate for the three months ended March 31, 2018 includes \$26 million of excess tax benefits related to employee share-based compensation. The company's effective tax rate for the three months ended March 31, 2017 included \$47 million of excess tax benefits related to employee share-based compensation, a \$42 million benefit recognized in connection with the Congressional Joint Committee on Taxation's approval of the Internal Revenue Service (IRS) examination of the company's 2012-2013 tax returns, a \$22 million benefit recognized for additional research credits claimed on our prior year tax returns and \$15 million of domestic manufacturing deductions.

In December 2017, the 2017 Tax Act was enacted. The 2017 Tax Act includes a number of changes to previous U.S. tax laws that impact the company, most notably a reduction of the U.S. corporate income tax rate from 35 percent to 21 percent for tax years beginning after December 31, 2017. The company recognized the income tax effects of the 2017 Tax Act in the financial statements included in its 2017 Annual Report on Form 10-K in accordance with Staff Accounting Bulletin No. 118, which provides SEC staff guidance for the application of ASC Topic 740, *Income Taxes*, in the reporting period in which the 2017 Tax Act was signed into law. During the three months ended March

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31, 2018, the company did not recognize any changes to the provisional amounts recorded in its 2017 Annual Report on Form 10-K in connection with the 2017 Tax Act as the company is continuing to collect the information necessary to complete those calculations.

We file income tax returns in the U.S. federal jurisdiction and in various state and foreign jurisdictions. Our 2014-2015 federal tax returns and our refund claims related to our 2007-2011 federal tax returns are currently under IRS examination. The company believes it is reasonably possible that within the next twelve months we may resolve certain matters related to the examination of the 2014-2015 tax years, which may result in reductions of our unrecognized tax benefits up to \$115 million and income tax expense up to \$30 million.

**5. FAIR VALUE OF FINANCIAL INSTRUMENTS**

The company holds a portfolio of marketable securities consisting of securities to partially fund non-qualified employee benefit plans. These securities are included in other non-current assets in the unaudited condensed consolidated statements of financial position.

The company's derivative portfolio consists primarily of foreign currency forward contracts. Where model-derived valuations are appropriate, the company utilizes the income approach to determine the fair value and uses the applicable London Interbank Offered Rate (LIBOR) swap rates.

The following table presents the financial assets and liabilities we record at fair value on a recurring basis identified by the level of inputs used to determine fair value:

\$ in millions	March 31, 2018			December 31, 2017		
	Level 1	Level 2	Total	Level 1	Level 2	Total
<b>Financial Assets (Liabilities)</b>						
Marketable securities	\$ 347	\$ 1	\$ 348	\$ 352	\$ 1	\$ 353
Derivatives	—	1	1	—	—	—

The notional value of the company's derivative portfolio at March 31, 2018 and December 31, 2017, was \$83 million and \$89 million, respectively. The portion of notional value designated as a cash flow hedge at March 31, 2018 and December 31, 2017 was \$7 million and \$8 million, respectively. The derivative fair values and related unrealized gains/losses at March 31, 2018 and December 31, 2017 were not material.

There were no transfers of financial instruments between the three levels of the fair value hierarchy during the three months ended March 31, 2018.

The carrying value of cash and cash equivalents approximates fair value.

**Long-term Debt**

The estimated fair value of long-term debt was \$15.4 billion and \$16.0 billion as of March 31, 2018 and December 31, 2017, respectively. We calculated the fair value of long-term debt using Level 2 inputs, based on interest rates available for debt with terms and maturities similar to the company's existing debt arrangements. The carrying value of long-term debt was \$15.3 billion as of March 31, 2018 and December 31, 2017. The current portion of long-term debt is recorded in Other current liabilities in the unaudited condensed consolidated statements of financial position.

**6. INVESTIGATIONS, CLAIMS AND LITIGATION****Litigation**

On May 4, 2012, the company commenced an action, *Northrop Grumman Systems Corp. v. United States*, in the U.S. Court of Federal Claims. This lawsuit relates to an approximately \$875 million firm fixed price contract awarded to the company in 2007 by the U.S. Postal Service (USPS) for the construction and delivery of flats sequencing systems (FSS) as part of the postal automation program. The FSS have been delivered. The company's lawsuit is based on various theories of liability. The complaint seeks approximately \$63 million for unpaid portions of the contract price, and approximately \$115 million based on the company's assertions that, through various acts and omissions over the life of the contract, the USPS adversely affected the cost and schedule of performance and materially altered the company's obligations under the contract. The United States responded to the company's complaint with an answer, denying most of the company's claims, and counterclaims seeking approximately \$410 million, less certain amounts outstanding under the contract. The principal counterclaim alleges that the company delayed its performance and caused damages to the USPS because USPS did not realize certain costs savings as

**NORTHROP GRUMMAN CORPORATION**

early as it had expected. On April 2, 2013, the U.S. Department of Justice informed the company of a False Claims Act complaint relating to the FSS contract that was filed under seal by a relator in June 2011 in the U.S. District Court for the Eastern District of Virginia. On June 3, 2013, the United States filed a Notice informing the Court that the United States had decided not to intervene in this case. The relator alleged that the company violated the False Claims Act in a number of ways with respect to the FSS contract, alleged damage to the USPS in an amount of at least approximately \$179 million annually, alleged that he was improperly discharged in retaliation, and sought an unspecified partial refund of the contract purchase price, penalties, attorney's fees and other costs of suit. The relator later voluntarily dismissed his retaliation claim and reasserted it in a separate arbitration, which he also ultimately voluntarily dismissed. On September 5, 2014, the court granted the company's motion for summary judgment and ordered the relator's False Claims Act case be dismissed with prejudice. On December 19, 2014, the company filed a motion for partial summary judgment asking the court to dismiss the principal counterclaim referenced above. On June 29, 2015, the Court heard argument and denied that motion without prejudice to filing a later motion to dismiss. On February 16, 2018, both the company and the United States filed motions to dismiss many of the claims and counterclaims in whole or in part. The United States also filed a motion seeking to amend its answer and counterclaim, including to reduce its counterclaim to approximately \$193 million. Although the ultimate outcome of these matters ("the FSS matters," collectively), including any possible loss, cannot be predicted or reasonably estimated at this time, the company intends vigorously to pursue and defend the FSS matters.

On August 8, 2013, the company received a court-appointed expert's report in litigation pending in the Second Federal Court of the Federal District in Brazil brought by the Brazilian Post and Telegraph Corporation (ECT), a Brazilian state-owned entity, against Solystic SAS (Solystic), a French subsidiary of the company, and two of its consortium partners. In this suit, commenced on December 17, 2004, and relatively inactive for some period of time, ECT alleges the consortium breached its contract with ECT and seeks damages of approximately R\$111 million (the equivalent of approximately \$34 million as of March 31, 2018), plus interest, inflation adjustments and attorneys' fees, as authorized by Brazilian law, which amounts could be significant over time. The original suit sought R\$89 million (the equivalent of approximately \$27 million as of March 31, 2018) in damages. In October 2013, ECT asserted an additional damage claim of R\$22 million (the equivalent of approximately \$7 million as of March 31, 2018). In its counterclaim, Solystic alleges ECT breached the contract by wrongfully refusing to accept the equipment Solystic had designed and built and seeks damages of approximately €31 million (the equivalent of approximately \$38 million as of March 31, 2018), plus interest, inflation adjustments and attorneys' fees, as authorized by Brazilian law. The Brazilian court retained an expert to consider certain issues pending before it. On August 8, 2013 and September 10, 2014, the company received reports from the expert, which contain some recommended findings relating to liability and the damages calculations put forth by ECT. Some of the expert's recommended findings were favorable to the company and others were favorable to ECT. In November 2014, the parties submitted comments on the expert's most recent report. On June 16, 2015, the court published a decision denying the parties' request to present oral testimony. At some future point, the court is expected to issue a decision on the parties' claims and counterclaims that could accept or reject, in whole or in part, the expert's recommended findings.

The company previously identified and disclosed to the U.S. Government various issues relating primarily to time-charging practices of some employees working on a particular program with remote deployments. The Department of Justice is continuing to investigate this matter, and the company is cooperating in that investigation. Depending upon the ultimate outcome of this matter, the company could be subject to damages, civil or criminal fines, penalties or other sanctions, and suspension or debarment actions; however, we cannot at this point predict the outcome.

We are engaged in remediation activities relating to environmental conditions allegedly resulting from historic operations at the former United States Navy and Grumman facilities in Bethpage, New York. For over 20 years, we have worked closely with the United States Navy, the United States Environmental Protection Agency, the New York State Department of Environmental Conservation, the New York State Department of Health and other federal, state and local governmental authorities, to address legacy environmental conditions in Bethpage. We have incurred, and expect to continue to incur, as included in Note 7, substantial remediation costs related to these environmental conditions. The remediation standards or requirements to which we are subject may change and costs may increase materially. The State of New York has notified us that it intends to seek to impose additional remedial requirements and, among other things, is evaluating natural resource damages. In addition, we are and may become a party to various legal proceedings and disputes related to remediation and/or alleged environmental impacts in Bethpage, including with federal and state entities, local municipalities and water districts, insurance carriers and class action plaintiffs. These Bethpage matters could result in additional costs, fines, penalties, sanctions, compensatory or other damages (including natural resource damages), determinations on allocation, allowability and coverage, and non-

**NORTHROP GRUMMAN CORPORATION**

monetary relief. We cannot at this time predict or reasonably estimate the potential cumulative outcomes or ranges of possible liability of these aggregate Bethpage matters.

The company is a party to various other investigations, lawsuits, claims, enforcement actions and other legal proceedings, including government investigations and claims, that arise in the ordinary course of our business. The nature of legal proceedings is such that we cannot assure the outcome of any particular matter. However, based on information available to the company to date, the company does not believe that the outcome of any of these other matters pending against the company is likely to have a material adverse effect on the company's unaudited condensed consolidated financial position as of March 31, 2018, or its annual results of operations and/or cash flows.

**7. COMMITMENTS AND CONTINGENCIES****U.S. Government Cost Claims**

From time to time, the company is advised of claims by the U.S. Government concerning certain potential disallowed costs, plus, at times, penalties and interest. When such findings are presented, the company and U.S. Government representatives engage in discussions to enable the company to evaluate the merits of these claims, as well as to assess the amounts being claimed. Where appropriate, provisions are made to reflect the company's estimated exposure for such potential disallowed costs. Such provisions are reviewed periodically using the most recent information available. The company believes it has adequately reserved for disputed amounts that are probable and reasonably estimable, and that the outcome of any such matters would not have a material adverse effect on its unaudited condensed consolidated financial position as of March 31, 2018, or its annual results of operations and/or cash flows.

**Environmental Matters**

The table below summarizes management's estimate of the range of reasonably possible future costs for environmental remediation, the amount accrued within that range, and the deferred costs expected to be recoverable through overhead charges on U.S. Government contracts as of March 31, 2018 and December 31, 2017:

<i>\$ in millions</i>	Range of Reasonably Possible Future Costs <sup>(1)</sup>	Accrued Costs <sup>(2)</sup>	Deferred Costs <sup>(3)</sup>
<b>March 31, 2018</b>	<b>\$410 - \$789</b>	<b>\$ 416</b>	<b>\$ 211</b>
December 31, 2017	405 - 792	410	207

<sup>(1)</sup> Estimated remediation costs are not discounted to present value. The range of reasonably possible future costs does not take into consideration amounts expected to be recoverable through overhead charges on U.S. Government contracts.

<sup>(2)</sup> As of March 31, 2018, \$151 million is recorded in other current liabilities and \$265 million is recorded in other non-current liabilities.

<sup>(3)</sup> As of March 31, 2018, \$79 million is deferred in prepaid expenses and other current assets and \$132 million is deferred in other non-current assets. These amounts are evaluated for recoverability on a routine basis.

Although management cannot predict whether new information gained as our environmental remediation projects progress, or as changes in facts and circumstances occur, will materially affect the estimated liability accrued, except with respect to Bethpage, we do not anticipate that future remediation expenditures associated with our currently identified projects will have a material adverse effect on the company's unaudited condensed consolidated financial position as of March 31, 2018, or its annual results of operations and/or cash flows. With respect to Bethpage, as described in Note 6, we cannot at this time estimate the range of reasonably possible additional future costs that could result from potential changes to remediation standards or requirements to which we are subject.

**Financial Arrangements**

In the ordinary course of business, the company uses standby letters of credit and guarantees issued by commercial banks and surety bonds issued principally by insurance companies to guarantee the performance on certain obligations. At March 31, 2018, there were \$192 million of stand-by letters of credit and guarantees and \$196 million of surety bonds outstanding.

**Indemnifications**

The company has provided indemnification for certain environmental, income tax and other potential liabilities in connection with certain of its divestitures. The settlement of these liabilities is not expected to have a material adverse effect on the company's unaudited condensed consolidated financial position as of March 31, 2018, or its annual results of operations and/or cash flows.

**NORTHROP GRUMMAN CORPORATION**
**Operating Leases**

Rental expense for operating leases for the three months ended March 31, 2018 and 2017 was \$92 million and \$89 million, respectively. These amounts are net of immaterial amounts of sublease rental income.

**Credit Facilities**

In December 2016, a subsidiary of the company entered into a two-year credit facility, with two additional one-year option periods, in an aggregate principal amount of £120 million (the equivalent of approximately \$170 million as of March 31, 2018) (the "2016 Credit Agreement"). The company exercised the first option to extend the maturity to December 2019. The 2016 Credit Agreement is guaranteed by the company. At March 31, 2018, there was £90 million (the equivalent of approximately \$127 million) outstanding under this facility, which bears interest at a rate of LIBOR plus 1.10 percent. All of the borrowings outstanding under this facility mature less than one year from the date of issuance, but may be renewed under the terms of the facility. Based on our intent and ability to refinance the obligations on a long-term basis, substantially all of the borrowings are classified as non-current.

The company also maintains a five-year unsecured credit facility in an aggregate principal amount of \$1.6 billion that matures in July 2020. At March 31, 2018, there was no balance outstanding under this facility.

At March 31, 2018, the company was in compliance with all covenants under its credit agreements.

**8. RETIREMENT BENEFITS**

The cost to the company of its retirement plans is shown in the following table:

<i>\$ in millions</i>	Three Months Ended March 31			
	Pension Benefits		Medical and Life Benefits	
	2018	2017	2018	2017
<b>Components of net periodic benefit cost</b>				
Service cost	\$ 99	\$ 97	\$ 5	\$ 5
Interest cost	290	313	19	21
Expected return on plan assets	(529)	(471)	(25)	(22)
Amortization of:				
Prior service credit	(15)	(15)	(5)	(5)
Net loss from previous years	134	191	—	3
<b>Net periodic benefit cost</b>	<b>\$ (21)</b>	<b>\$ 115</b>	<b>\$ (6)</b>	<b>\$ 2</b>

*Changes in Presentation*

As discussed in Note 1, we adopted ASU 2017-07 on January 1, 2018 using the retrospective method, which changed the financial statement presentation of service costs and the other components of net periodic benefit cost. The service cost component continues to be included in operating income; however, the other components are now presented in Net FAS (non-service) pension benefit (expense) in the unaudited condensed consolidated statements of earnings and comprehensive income. In addition, interest on service cost and plan administrative expenses which, in some cases, have historically been included in service cost are now consistently presented in the interest cost and amortization of net actuarial loss components, respectively. As a result, the company reclassified interest on service cost of \$4 million and plan administrative expenses of \$13 million from service cost to the interest cost and amortization of net actuarial loss components, respectively, for its pension plans in the three months ended March 31, 2017 to conform to the current year presentation. For the company's medical and life benefit plans, plan administrative expenses of \$1 million were reclassified from service cost to the amortization of net actuarial loss component for the three months ended March 31, 2017 to conform to the current year presentation. This change in presentation had no impact on net periodic benefit cost.

**Employer Contributions**

The company sponsors defined benefit pension and post-retirement plans, as well as defined contribution plans. We fund our defined benefit pension plans annually in a manner consistent with the Employee Retirement Income Security Act of 1974, as amended by the Pension Protection Act of 2006, including making voluntary contributions from time to time.



**NORTHROP GRUMMAN CORPORATION**

Contributions made by the company to its retirement plans are as follows:

<i>\$ in millions</i>	Three Months Ended March 31	
	2018	2017
Defined benefit pension plans	\$ 22	\$ 23
Medical and life benefit plans	11	11
Defined contribution plans	104	99

**9. STOCK COMPENSATION PLANS AND OTHER COMPENSATION ARRANGEMENTS****Stock Awards**

The following table presents the number of restricted stock rights (RSRs) and restricted performance stock rights (RPSRs) granted to employees under the company's long-term incentive stock plan and the grant date aggregate fair value of those stock awards for the periods presented:

<i>in millions</i>	Three Months Ended March 31	
	2018	2017
RSRs granted	0.1	0.1
RPSRs granted	0.2	0.3
Grant date aggregate fair value	\$ 87	\$ 86

RSRs typically vest on the third anniversary of the grant date, while RPSRs generally vest and pay out based on the achievement of financial metrics over a three-year period.

**Cash Awards**

The following table presents the minimum and maximum aggregate payout amounts related to cash units (CUs) and cash performance units (CPUs) granted to employees in the periods presented:

<i>\$ in millions</i>	Three Months Ended March 31	
	2018	2017
Minimum aggregate payout amount	\$ 35	\$ 35
Maximum aggregate payout amount	196	198

CUs typically vest and settle in cash on the third anniversary of the grant date, while CPUs generally vest and pay out in cash based on the achievement of financial metrics over a three-year period.

**NORTHROP GRUMMAN CORPORATION****10. SEGMENT INFORMATION**

The company is aligned in three operating sectors, which also comprise our reportable segments: Aerospace Systems, Mission Systems and Technology Services.

The following table presents sales and operating income by segment:

<i>\$ in millions</i>	Three Months Ended March 31	
	2018	2017
<b>Sales</b>		
Aerospace Systems	\$ 3,280	\$ 2,984
Mission Systems	2,883	2,800
Technology Services	1,144	1,190
Intersegment eliminations	(572)	(564)
<b>Total sales</b>	<b>6,735</b>	<b>6,410</b>
<b>Operating income</b>		
Aerospace Systems	341	323
Mission Systems	371	359
Technology Services	122	129
Intersegment eliminations	(72)	(70)
<b>Total segment operating income</b>	<b>762</b>	<b>741</b>
Net FAS (service)/CAS pension adjustment	127	154
Unallocated corporate expenses	(34)	(32)
Other	(1)	(1)
<b>Total operating income</b>	<b>\$ 854</b>	<b>\$ 862</b>

**Net FAS (Service)/CAS Pension Adjustment**

For financial statement purposes, we account for our employee pension plans in accordance with FAS. However, the cost of these plans is charged to our contracts in accordance with the Federal Acquisition Regulation (FAR) and the related U.S. Government Cost Accounting Standards (CAS). The net FAS (service)/CAS pension adjustment reflects the difference between CAS pension expense included as cost in segment operating income and the service cost component of FAS expense included in total operating income. The non-service cost components of FAS expense, which include interest cost, expected return on plan assets, and amortization of prior service credit and net actuarial loss, are presented in Net FAS (non-service) pension benefit (expense) in the unaudited condensed consolidated statements of earnings and comprehensive income as a result of our adoption of ASU 2017-07 discussed in Note 1.

**Unallocated Corporate Expenses**

Unallocated corporate expenses include the portion of corporate expenses not considered allowable or allocable under applicable CAS or FAR, and therefore not allocated to the segments. Such costs consist of a portion of management and administration, legal, environmental, compensation, retiree benefits and other corporate unallowable costs.

**NORTHROP GRUMMAN CORPORATION**
**Disaggregation of Revenue**
*Sales by Customer Type*

<i>\$ in millions</i>	Three Months Ended March 31			
	2018		2017	
	\$	% <sup>(3)</sup>	\$	% <sup>(3)</sup>
<b>Aerospace Systems</b>				
U.S. Government <sup>(1)</sup>	\$ 2,908	89%	\$ 2,553	86%
International <sup>(2)</sup>	271	8%	309	10%
Other customers	42	1%	38	1%
Intersegment sales	59	2%	84	3%
<b>Aerospace Systems sales</b>	<b>3,280</b>	<b>100%</b>	<b>2,984</b>	<b>100%</b>
<b>Mission Systems</b>				
U.S. Government <sup>(1)</sup>	2,190	76%	2,186	78%
International <sup>(2)</sup>	379	13%	354	13%
Other customers	30	1%	21	1%
Intersegment sales	284	10%	239	8%
<b>Mission Systems sales</b>	<b>2,883</b>	<b>100%</b>	<b>2,800</b>	<b>100%</b>
<b>Technology Services</b>				
U.S. Government <sup>(1)</sup>	602	53%	636	53%
International <sup>(2)</sup>	220	19%	209	18%
Other customers	93	8%	104	9%
Intersegment sales	229	20%	241	20%
<b>Technology Services sales</b>	<b>1,144</b>	<b>100%</b>	<b>1,190</b>	<b>100%</b>
<b>Total</b>				
U.S. Government <sup>(1)</sup>	5,700	85%	5,375	84%
International <sup>(2)</sup>	870	13%	872	14%
Other customers	165	2%	163	2%
<b>Total sales</b>	<b>\$ 6,735</b>	<b>100%</b>	<b>\$ 6,410</b>	<b>100%</b>

<sup>(1)</sup> Sales to the U.S. Government include sales from contracts for which we are the prime contractor, as well as those for which we are a subcontractor and the ultimate customer is the U.S. Government. Each of the company's segments derives substantial revenue from the U.S. Government.

<sup>(2)</sup> International sales include sales from contracts for which we are the prime contractor, as well as those for which we are a subcontractor and the ultimate customer is an international customer. These sales include foreign military sales contracted through the U.S. Government, direct sales with governments outside the U.S. and commercial sales with customers outside the U.S.

<sup>(3)</sup> Percentages calculated based on total segment sales.

**NORTHROP GRUMMAN CORPORATION***Sales by Contract Type*

<i>\$ in millions</i>	Three Months Ended March 31			
	2018		2017	
	\$	% <sup>(1)</sup>	\$	% <sup>(1)</sup>
<b>Aerospace Systems</b>				
Cost-type	\$ 1,902	59%	\$ 1,827	63%
Fixed-price	1,319	41%	1,073	37%
Intersegment sales	59		84	
<b>Aerospace Systems sales</b>	<b>3,280</b>		<b>2,984</b>	
<b>Mission Systems</b>				
Cost-type	1,279	49%	1,316	51%
Fixed-price	1,320	51%	1,245	49%
Intersegment sales	284		239	
<b>Mission Systems sales</b>	<b>2,883</b>		<b>2,800</b>	
<b>Technology Services</b>				
Cost-type	437	48%	445	47%
Fixed-price	478	52%	504	53%
Intersegment sales	229		241	
<b>Technology Services sales</b>	<b>1,144</b>		<b>1,190</b>	
<b>Total</b>				
Cost-type	3,618	54%	3,588	56%
Fixed-price	3,117	46%	2,822	44%
<b>Total sales</b>	<b>\$ 6,735</b>	<b>100%</b>	<b>\$ 6,410</b>	<b>100%</b>

<sup>(1)</sup> Percentages calculated based on external customer sales.

**NORTHROP GRUMMAN CORPORATION**
*Sales by Geographic Region*

<i>\$ in millions</i>	Three Months Ended March 31			
	2018		2017	
	\$	% <sup>(1)</sup>	\$	% <sup>(1)</sup>
<b>Aerospace Systems</b>				
United States	\$ 2,950	92%	\$ 2,591	89%
Asia/Pacific	129	4%	188	7%
All other (principally Europe and Middle East)	142	4%	121	4%
Intersegment sales	59		84	
Aerospace Systems sales	3,280		2,984	
<b>Mission Systems</b>				
United States	2,220	85%	2,207	86%
Asia/Pacific	153	6%	154	6%
All other (principally Europe and Middle East)	226	9%	200	8%
Intersegment sales	284		239	
Mission Systems sales	2,883		2,800	
<b>Technology Services</b>				
United States	695	76%	741	78%
Asia/Pacific	32	3%	46	5%
All other (principally Europe and Middle East)	188	21%	162	17%
Intersegment sales	229		241	
Technology Services sales	1,144		1,190	
<b>Total</b>				
United States	5,865	87%	5,539	86%
Asia/Pacific	314	5%	388	6%
All other (principally Europe and Middle East)	556	8%	483	8%
Total sales	\$ 6,735	100%	\$ 6,410	100%

<sup>(1)</sup> Percentages calculated based on external customer sales.

**NORTHROP GRUMMAN CORPORATION**
**11. RECAST 2017 FINANCIAL INFORMATION**

Our prior period financial statements were recast for the retrospective adoption of ASC Topic 606 and ASU 2017-07 as described in Note 1. The following tables summarize the effects of adopting these accounting standards on our unaudited condensed consolidated statement of earnings and comprehensive income for the three months ended March 31, 2017 and unaudited condensed consolidated statement of financial position as of December 31, 2017. The adoption of ASC Topic 606 did not have a material impact on our unaudited condensed consolidated statements of cash flows and changes in shareholders' equity for the three months ended March 31, 2017.

**CONDENSED CONSOLIDATED STATEMENT OF EARNINGS AND COMPREHENSIVE INCOME**
**(Unaudited)**

<i>\$ in millions, except per share amounts</i>	<b>Three Months Ended March 31, 2017</b>			
	<b>As Reported</b>	Effect of the Adoption of ASC		<b>As Adjusted</b>
		Topic 606	ASU 2017-07	
<b>Sales</b>				
Product	\$ 3,834	\$ 163	\$ —	\$ 3,997
Service	2,433	(20)	—	2,413
<b>Total sales</b>	<b>6,267</b>	<b>143</b>	<b>—</b>	<b>6,410</b>
<b>Operating costs and expenses</b>				
Product	2,871	121	(9)	2,983
Service	1,887	(14)	(6)	1,867
General and administrative expenses	677	21	—	698
<b>Operating income</b>	<b>832</b>	<b>15</b>	<b>15</b>	<b>862</b>
Other (expense) income				
Interest expense	(75)	—	—	(75)
Net FAS (non-service) pension benefit (expense)	—	—	(18)	(18)
Other, net	16	—	3	19
Earnings before income taxes	773	15	—	788
Federal and foreign income tax expense	133	5	—	138
<b>Net earnings</b>	<b>\$ 640</b>	<b>\$ 10</b>	<b>\$ —</b>	<b>\$ 650</b>
<b>Basic earnings per share</b>	<b>\$ 3.66</b>	<b>\$ 0.06</b>	<b>\$ —</b>	<b>\$ 3.72</b>
Weighted-average common shares outstanding, in millions	174.8	—	—	174.8
<b>Diluted earnings per share</b>	<b>\$ 3.63</b>	<b>\$ 0.06</b>	<b>\$ —</b>	<b>\$ 3.69</b>
Weighted-average diluted shares outstanding, in millions	176.1	—	—	176.1
<b>Net earnings (from above)</b>	<b>\$ 640</b>	<b>\$ 10</b>	<b>\$ —</b>	<b>\$ 650</b>
Other comprehensive income				
Change in unamortized benefit plan costs, net of tax	99	—	—	99
Change in cumulative translation adjustment	4	—	—	4
Other, net	2	—	—	2
Other comprehensive income, net of tax	105	—	—	105
<b>Comprehensive income</b>	<b>\$ 745</b>	<b>\$ 10</b>	<b>\$ —</b>	<b>\$ 755</b>

**NORTHROP GRUMMAN CORPORATION**
**CONDENSED CONSOLIDATED STATEMENT OF FINANCIAL POSITION  
(Unaudited)**

<i>\$ in millions</i>	December 31, 2017				
	As Reported	Effect of the Adoption of ASC Topic 606		ASU 2017-07	As Adjusted
<b>Assets</b>					
Cash and cash equivalents	\$ 11,225	\$ —	\$ —	\$ —	\$ 11,225
Accounts receivable, net	829	225	—	—	1,054
Unbilled receivables, net	3,147	318	—	—	3,465
Inventoried costs, net	780	(382)	—	—	398
Prepaid expenses and other current assets	368	77	—	—	445
<b>Total current assets</b>	<b>16,349</b>	<b>238</b>	<b>—</b>	<b>—</b>	<b>16,587</b>
Property, plant and equipment, net of accumulated depreciation of \$5,066 for 2017	4,225	—	—	—	4,225
Goodwill	12,455	—	—	—	12,455
Deferred tax assets	475	(28)	—	—	447
Other non-current assets	1,413	1	—	—	1,414
<b>Total assets</b>	<b>\$ 34,917</b>	<b>\$ 211</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 35,128</b>
<b>Liabilities</b>					
Trade accounts payable	\$ 1,661	\$ —	\$ —	\$ —	\$ 1,661
Accrued employee compensation	1,382	—	—	—	1,382
Advance payments and amounts in excess of costs incurred	1,617	144	—	—	1,761
Other current liabilities	2,305	(17)	—	—	2,288
<b>Total current liabilities</b>	<b>6,965</b>	<b>127</b>	<b>—</b>	<b>—</b>	<b>7,092</b>
Long-term debt, net of current portion of \$867 for 2017	14,399	—	—	—	14,399
Pension and other post-retirement benefit plan liabilities	5,511	—	—	—	5,511
Other non-current liabilities	994	—	—	—	994
<b>Total liabilities</b>	<b>27,869</b>	<b>127</b>	<b>—</b>	<b>—</b>	<b>27,996</b>
<b>Commitments and contingencies (Note 7)</b>					
<b>Shareholders' equity</b>					
Preferred stock, \$1 par value; 10,000,000 shares authorized; no shares issued and outstanding	—	—	—	—	—
Common stock, \$1 par value; 800,000,000 shares authorized; issued and outstanding: 2017—174,085,619	174	—	—	—	174
Paid-in capital	44	—	—	—	44
Retained earnings	11,548	84	—	—	11,632
Accumulated other comprehensive loss	(4,718)	—	—	—	(4,718)
<b>Total shareholders' equity</b>	<b>7,048</b>	<b>84</b>	<b>—</b>	<b>—</b>	<b>7,132</b>
<b>Total liabilities and shareholders' equity</b>	<b>\$ 34,917</b>	<b>\$ 211</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 35,128</b>

## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of  
Northrop Grumman Corporation  
Falls Church, Virginia

### Results of Review of Interim Financial Information

We have reviewed the accompanying condensed consolidated statement of financial position of Northrop Grumman Corporation and subsidiaries (the “Company”) as of March 31, 2018, and the related condensed consolidated statements of earnings and comprehensive income, cash flows, and changes in shareholders’ equity for the three-month periods ended March 31, 2018 and 2017, and the related notes (collectively referred to as the “interim financial information”). Based on our reviews, we are not aware of any material modifications that should be made to the accompanying interim financial information for it to be in conformity with accounting principles generally accepted in the United States of America.

We have previously audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated statement of financial position of Northrop Grumman Corporation and subsidiaries as of December 31, 2017, and the related consolidated statements of earnings and comprehensive income, changes in shareholders’ equity, and cash flows for the year then ended prior to retrospective adjustment for the change in the Company’s method of accounting for revenue transactions, (not presented herein); and in our report dated January 29, 2018, we expressed an unqualified opinion on those consolidated financial statements. We also audited the adjustments described in Note 1 and presented in Note 11 that were applied to retrospectively adjust the December 31, 2017 consolidated statement of financial position of the Company (not presented herein). In our opinion, such adjustments are appropriate and have been properly applied to the previously issued consolidated statement of financial position in deriving the accompanying retrospectively adjusted condensed consolidated statement of financial position as of December 31, 2017.

### Basis for Review Results

This interim financial information is the responsibility of the Company’s management. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our reviews in accordance with standards of the PCAOB. A review of interim financial information consists principally of applying analytical procedures and making inquiries of persons responsible for financial and accounting matters. It is substantially less in scope than an audit conducted in accordance with the standards of the PCAOB, the objective of which is the expression of an opinion regarding the financial statements taken as a whole. Accordingly, we do not express such an opinion.

/s/ Deloitte & Touche LLP  
McLean, Virginia  
April 24, 2018



**NORTHROP GRUMMAN CORPORATION****Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations****OVERVIEW**

Northrop Grumman Corporation (herein referred to as "Northrop Grumman," the "company," "we," "us," or "our") is a leading global security company. We offer a broad portfolio of capabilities and technologies that enable us to deliver innovative products, systems and solutions for applications that range from undersea to outer space and into cyberspace. We provide products, systems and solutions in autonomous systems; cyber; command, control, communications and computers, intelligence, surveillance and reconnaissance (C4ISR); strike; and logistics and modernization. We participate in many high-priority defense and government programs in the United States (U.S.) and abroad. We conduct most of our business with the U.S. Government, principally the Department of Defense (DoD) and intelligence community. We also conduct business with foreign, state and local governments, as well as commercial customers.

The following discussion should be read along with the financial statements included in this Form 10-Q, as well as our 2017 Annual Report on Form 10-K, which provides additional information on our business and the environment in which we operate and our operating results. Our 2017 results have been recast to reflect the impact of the adoption of Accounting Standards Codification (ASC) Topic 606, *Revenue from Contracts with Customers*, and Accounting Standards Update (ASU) No. 2017-07, *Compensation Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost*, using the full retrospective method.

**Pending Acquisition of Orbital ATK**

On September 17, 2017, the company entered into a definitive merger agreement to acquire all of the outstanding shares of Orbital ATK, Inc. (Orbital ATK) for approximately \$7.8 billion in cash, plus the assumption of approximately \$1.4 billion in net debt (the "Orbital ATK Acquisition"). See Item 1.01 in our Current Report on Form 8-K filed with the SEC on September 18, 2017 for a summary and copy of the merger agreement. We believe this acquisition will enable us to broaden our capabilities and offerings, create value for shareholders, provide expanded opportunities for our combined employees and enhance our ability to provide innovative solutions to meet our customers' emerging requirements. Under the terms of the merger agreement, Orbital ATK shareholders are to receive all-cash consideration of \$134.50 per share. We expect to fund the Orbital ATK Acquisition with the proceeds from our debt financing completed in October 2017 and cash on hand. On November 29, 2017, Orbital ATK shareholders approved the proposed Orbital ATK Acquisition. On February 12, 2018, the European Commission approved the proposed Orbital ATK Acquisition. We currently expect the transaction to close in the first half of 2018, after receiving regulatory approvals. Upon completion of the Orbital ATK Acquisition, we plan to establish Orbital ATK as a new, fourth business sector named Northrop Grumman Innovation Systems.

**Global Security and Economic Environment**

The following is an update of events relating to the global security and economic environment since the filing of our 2017 Annual Report on Form 10-K.

The global security, geopolitical and economic environment continues to be impacted by uncertainty. During the first quarter, the environment continued to be characterized by global and regional security threats from state and non-state actors as well as terrorist organizations and diverse regional security concerns. Additionally, economic tensions and changes in international trade policies, including higher tariffs on imported goods and materials and renegotiation of free trade agreements, could impact the global market for defense products, services and solutions.

**U.S. Political and Economic Environment**

The following is an update of events relating to the U.S. political and economic environment since the filing of our 2017 Annual Report on Form 10-K.

On February 9, 2018, Congress passed the Bipartisan Budget Act (BBA) of 2018, which extended the continuing resolution funding the government through March 23, 2018 and raised the statutory budget caps for defense spending, including for Overseas Contingency Operations (OCO), by \$80 billion for FY 2018 and by \$85 billion for FY 2019. The BBA also raised non-defense spending by \$63 billion for FY 2018 and \$68 billion for FY 2019 and suspended the debt ceiling until March 1, 2019.

On March 23, 2018, the President signed the Omnibus Appropriations Act for FY18, which provides \$1.3 trillion in discretionary funding for federal agencies. In total for FY 2018, Congress appropriated approximately \$700 billion for national security, including approximately \$630 billion for base discretionary funding and approximately \$70 billion in OCO funding.

**NORTHROP GRUMMAN CORPORATION**

The federal budget and debt ceiling are expected to continue to be the subject of considerable debate, which could have a significant impact on defense spending broadly and the company's programs in particular.

**Operating Performance Assessment and Reporting**

We manage and assess our business based on our performance on contracts and programs (typically larger contracts or two or more closely-related contracts). We recognize sales from our portfolio of long-term contracts as control is transferred to the customer, primarily over time on a cost-to-cost basis (cost incurred relative to cost estimated at completion). As a result, sales tend to fluctuate in concert with costs incurred across our large portfolio of contracts. Due to Federal Acquisition Regulation (FAR) rules that govern our U.S. Government business and related Cost Accounting Standards (CAS), most types of costs are allocable to U.S. Government contracts. As such, we do not focus on individual cost groupings (such as manufacturing, engineering and design labor, subcontractor, material, overhead and general and administrative (G&A) costs), as much as we do on total contract cost, which is the key driver of our sales and operating income.

In evaluating our operating performance, we look primarily at changes in sales and operating income. Where applicable, significant fluctuations in operating performance attributable to individual contracts or programs, or changes in a specific cost element across multiple contracts, are described in our analysis. Based on this approach and the nature of our operations, the discussion of results of operations below first focuses on our three segments before distinguishing between products and services. Changes in sales are generally described in terms of volume, while changes in margin rates are generally described in terms of performance and/or contract mix. For purposes of this discussion, volume generally refers to increases or decreases in sales or cost from production/service activity levels. Performance generally refers to non-volume related changes in profitability. Contract mix generally refers to changes in the ratio of contract type and/or lifecycle (e.g., cost-type, fixed-price, development, production, and/or sustainment).

**CONSOLIDATED OPERATING RESULTS**

Selected financial highlights are presented in the table below:

<i>\$ in millions, except per share amounts</i>	Three Months Ended March 31		%
	2018	2017	Change
Sales	\$ 6,735	\$ 6,410	5 %
Operating costs and expenses	5,881	5,548	6 %
<i>Operating costs and expenses as a % of sales</i>	<i>87.3%</i>	<i>86.6%</i>	
Operating income	854	862	(1) %
<i>Operating margin rate</i>	<i>12.7%</i>	<i>13.4%</i>	
Federal and foreign income tax expense	132	138	(4) %
<i>Effective income tax rate</i>	<i>15.2%</i>	<i>17.5%</i>	
Net earnings	739	650	14 %
Diluted earnings per share	\$ 4.21	\$ 3.69	14 %

**Sales**

Sales for the three months ended March 31, 2018 increased \$325 million, or 5 percent, as compared with the same period in 2017, due to higher sales at Aerospace Systems and Mission Systems, partially offset by lower sales at Technology Services.

See "Segment Operating Results" below for further information by segment and "Product and Service Analysis" for product and service detail. See Note 10 to the financial statements for information regarding the company's sales by customer type, contract type and geographic region for each of our segments.

**Operating Income**

Operating income for the three months ended March 31, 2018 decreased \$8 million, or 1 percent, as compared with the same period in 2017, primarily due to a \$27 million decrease in our net FAS (service)/CAS pension adjustment, partially offset by a \$21 million increase in segment operating income. Higher operating costs and expenses as a percentage of sales reduced our operating margin rate to 12.7 percent from 13.4 percent in the prior year period and was principally driven by the decrease in our net FAS (service)/CAS pension adjustment and a lower segment operating margin rate as described in "Segment Operating Results."

**NORTHROP GRUMMAN CORPORATION**

G&A as a percentage of sales for the three months ended March 31, 2018 decreased to 10.6 percent from 10.9 percent in the prior year period primarily due to higher sales.

For further information regarding product and service operating costs and expenses, see “Product and Service Analysis” below.

**Federal and Foreign Income Taxes**

Our effective tax rate for the three months ended March 31, 2018 was lower than the same period in 2017, as discussed in Note 4 to the financial statements.

**Net Earnings**

Net earnings for the three months ended March 31, 2018 increased \$89 million, or 14 percent, as compared with the same period in 2017, primarily due to a \$138 million increase in our net FAS (non-service) pension benefit, \$31 million of higher interest income on short-term investments and \$21 million of higher segment operating income. These increases were partially offset by \$68 million of higher interest expense on long-term debt and a \$27 million reduction in our net FAS (service)/CAS pension adjustment.

**Diluted Earnings Per Share**

Diluted earnings per share for the three months ended March 31, 2018 increased \$0.52, or 14 percent, as compared with the same period in 2017, primarily due to the 14 percent increase in net earnings discussed above.

**SEGMENT OPERATING RESULTS****Basis of Presentation**

The company is aligned in three operating sectors, which also comprise our reportable segments: Aerospace Systems, Mission Systems and Technology Services.

We present our sectors in the following business areas, which are reported in a manner reflecting core capabilities:

<b>Aerospace Systems</b>	<b>Mission Systems</b>	<b>Technology Services</b>
Autonomous Systems	Sensors and Processing	Global Logistics and Modernization
Manned Aircraft	Cyber and ISR	Advanced Defense Services
Space	Advanced Capabilities	System Modernization and Services

This section discusses segment sales, operating income and operating margin rates. A reconciliation of segment operating income to total operating income is provided below.

**Segment Operating Income and Margin Rate**

Segment operating income, as reconciled in the Reconciliation of Segment Operating Income to Total Operating Income section below, is a non-GAAP (accounting principles generally accepted in the United States of America) measure that reflects total earnings from our three segments, including allocated pension expense recognized under CAS, and excluding unallocated corporate items and FAS pension expense. This measure may be useful to investors and other users of our financial statements as a supplemental measure in evaluating the financial performance and operational trends of our sectors. This measure may not be defined and calculated by other companies in the same manner and should not be considered in isolation or as an alternative to operating results presented in accordance with GAAP.

<i>\$ in millions</i>	Three Months Ended March 31		% Change
	2018	2017	
Segment operating income	\$ 762	\$ 741	3%
Segment operating margin rate	11.3%	11.6%	

Segment operating income for the three months ended March 31, 2018 increased \$21 million, or 3 percent, as compared with the same period in 2017 as a result of higher sales volume, which more than offset a lower segment operating margin rate. Segment operating margin rate decreased principally due to a lower segment margin rate at Aerospace Systems as described below.

**NORTHROP GRUMMAN CORPORATION**

*Reconciliation of Segment Operating Income to Total Operating Income* - The table below reconciles segment operating income to total operating income by including the impact of the net FAS (service)/CAS pension adjustment, as well as unallocated corporate expenses (certain corporate-level expenses, which are not considered allowable or allocable under applicable CAS or the FAR). See Note 10 to the financial statements for further information on the net FAS (service)/CAS pension adjustment and unallocated corporate expenses.

<i>\$ in millions</i>	Three Months Ended March 31	
	2018	2017
Segment operating income	\$ 762	\$ 741
CAS pension expense	226	251
Less: FAS (service) pension expense	(99)	(97)
Net FAS (service)/CAS pension adjustment	127	154
Unallocated corporate expenses	(34)	(32)
Other	(1)	(1)
<b>Total operating income</b>	<b>\$ 854</b>	<b>\$ 862</b>

**Net FAS (service)/CAS Pension Adjustment**

The decrease in our net FAS (service)/CAS pension adjustment for the three months ended March 31, 2018, as compared with the same period in 2017, is primarily due to lower CAS expense resulting from higher asset returns in 2017 and a change in our mortality assumption as of December 31, 2017.

**Unallocated Corporate Expenses**

Unallocated corporate expenses for the three months ended March 31, 2018 were comparable with the prior year period.

*Net EAC Adjustments* - We record changes in estimated contract earnings at completion (net EAC adjustments) using the cumulative catch-up method of accounting. Net EAC adjustments can have a significant effect on reported sales and operating income and the aggregate amounts are presented in the table below:

<i>\$ in millions</i>	Three Months Ended March 31	
	2018	2017
Favorable EAC adjustments	\$ 207	\$ 182
Unfavorable EAC adjustments	(91)	(41)
<b>Net EAC adjustments</b>	<b>\$ 116</b>	<b>\$ 141</b>

Net EAC adjustments by segment are presented in the table below:

<i>\$ in millions</i>	Three Months Ended March 31	
	2018	2017
Aerospace Systems	\$ 54	\$ 53
Mission Systems	45	62
Technology Services	22	31
Eliminations	(5)	(5)
<b>Net EAC adjustments</b>	<b>\$ 116</b>	<b>\$ 141</b>

For purposes of the discussion in the remainder of this Segment Operating Results section, references to operating income and operating margin rate reflect segment operating income and segment operating margin rate, respectively.

**NORTHROP GRUMMAN CORPORATION****AEROSPACE SYSTEMS**

<i>\$ in millions</i>	Three Months Ended March 31		% Change
	2018	2017	
Sales	\$ 3,280	\$ 2,984	10%
Operating income	341	323	6%
Operating margin rate	10.4%	10.8%	

Aerospace Systems sales for the three months ended March 31, 2018 increased \$296 million, or 10 percent, as compared with the same period in 2017, due to higher volume on Manned Aircraft programs, as well as Autonomous Systems and Space programs. Manned Aircraft sales were driven by higher restricted, F-35 and E-2D Advanced Hawkeye volume. Autonomous Systems sales reflect higher volume on the Fire Scout and Triton programs, partially offset by lower Global Hawk volume. Space sales reflect higher restricted and Ground Based Strategic Deterrent volume, partially offset by lower intercompany, James Webb Space Telescope and Advanced Extremely High Frequency volume.

Operating income for the three months ended March 31, 2018 increased \$18 million, or 6 percent, as compared with the same period in 2017, primarily due to higher sales. Operating margin rate decreased to 10.4 percent primarily due to a non-programmatic benefit recognized during the first quarter of 2017 and higher volume on early phase development programs in 2018.

**MISSION SYSTEMS**

<i>\$ in millions</i>	Three Months Ended March 31		% Change
	2018	2017	
Sales	\$ 2,883	\$ 2,800	3%
Operating income	371	359	3%
Operating margin rate	12.9%	12.8%	

Mission Systems sales for the three months ended March 31, 2018 increased \$83 million, or 3 percent, as compared with the same period in 2017, primarily due to higher Sensors and Processing volume, partially offset by lower Cyber and ISR volume. Sensors and Processing sales increased principally due to higher volume on electro-optical/infrared (EO/IR) self-protection and targeting programs, F-35 sensors and restricted programs. Cyber and ISR sales decreased primarily due to lower volume on restricted ISR programs. Advanced Capabilities sales were comparable with the prior year period.

Operating income for the three months ended March 31, 2018 increased \$12 million, or 3 percent, as compared with the same period in 2017, primarily due to the higher sales described above. Operating margin rate was comparable with the prior year period.

**TECHNOLOGY SERVICES**

<i>\$ in millions</i>	Three Months Ended March 31		% Change
	2018	2017	
Sales	\$ 1,144	\$ 1,190	(4)%
Operating income	122	129	(5)%
Operating margin rate	10.7%	10.8%	

Technology Services sales for the three months ended March 31, 2018 decreased \$46 million, or 4 percent, as compared with the same period in 2017, primarily due to lower volume on System Modernization and Services and Advanced Defense Services programs, partially offset by higher volume on Global Logistics and Modernization programs. System Modernization and Services and Advanced Defense Services sales decreased primarily due to the completion of several programs in 2017, partially offset by higher volume on the Saudi Arabian Ministry of National Guard Training Support program (through our interest in a joint venture for which we consolidate the financial results). Global Logistics and Modernization sales increased primarily due to higher volume for several programs, including the Special Electronic Mission Aircraft program, partially offset by lower volume from the KC-10 program as our contract nears completion.

**NORTHROP GRUMMAN CORPORATION**

Operating income for the three months ended March 31, 2018 decreased \$7 million, or 5 percent, as compared with the same period in 2017, primarily due to the lower sales described above. Operating margin rate was comparable with the prior year period.

**PRODUCT AND SERVICE ANALYSIS**

The following table presents product and service sales and operating costs and expenses by segment:

<i>\$ in millions</i>	Three Months Ended March 31			
	2018		2017	
<b>Segment Information:</b>	<b>Sales</b>	<b>Operating Costs and Expenses</b>	<b>Sales</b>	<b>Operating Costs and Expenses</b>
<b>Aerospace Systems</b>				
Product	\$ 2,751	\$ 2,465	\$ 2,480	\$ 2,204
Service	529	474	504	457
<b>Mission Systems</b>				
Product	1,719	1,476	1,722	1,485
Service	1,164	1,036	1,078	956
<b>Technology Services</b>				
Product	106	97	75	70
Service	1,038	925	1,115	991
<b>Segment Totals</b>				
Total Product	\$ 4,576	\$ 4,038	\$ 4,277	\$ 3,759
Total Service	2,731	2,435	2,697	2,404
Intersegment eliminations	(572)	(500)	(564)	(494)
<b>Total segment<sup>(1)</sup></b>	<b>\$ 6,735</b>	<b>\$ 5,973</b>	<b>\$ 6,410</b>	<b>\$ 5,669</b>

<sup>(1)</sup> A reconciliation of segment operating income to total operating income is included in "Segment Operating Results."

**Product Sales and Costs**

Product sales for the three months ended March 31, 2018 increased \$299 million, or 7 percent, as compared with the same period in 2017. The increase was primarily due to higher restricted, F-35 and E-2D Advanced Hawkeye volume at Aerospace Systems.

Product costs for the three months ended March 31, 2018 increased \$279 million, or 7 percent, as compared with the same period in 2017, consistent with the change in product sales described above.

**Service Sales and Costs**

Service sales for the three months ended March 31, 2018 increased \$34 million, or 1 percent, as compared with the same period in 2017. The increase was primarily driven by higher service volume on several Sensors and Processing programs at Mission Systems, partially offset by lower service sales at Technology Services principally due to the completion of several programs in 2017.

Service costs for the three months ended March 31, 2018 increased \$31 million, or 1 percent, as compared with the same period in 2017, consistent with the change in service sales described above.

**BACKLOG**

Backlog represents the future sales we expect to recognize on firm orders received by the company and is equivalent to the company's remaining performance obligations at the end of each period. It comprises both funded backlog (firm orders for which funding is authorized and appropriated) and unfunded backlog. Unexercised contract options and indefinite delivery indefinite quantity (IDIQ) contracts are not included in backlog until the time the option or IDIQ task order is exercised or awarded. Backlog is converted into sales primarily as costs are incurred.

Company backlog as of March 31, 2018 and December 31, 2017 was \$42.3 billion and \$42.6 billion, respectively. As discussed in Note 1 to the financial statements, we adopted ASC Topic 606 on January 1, 2018 using the full retrospective method and applied the transition practical expedient related to backlog for reporting periods presented

**NORTHROP GRUMMAN CORPORATION**

before the date of initial application. However, for comparative purposes, we have recast our backlog as of December 31, 2017 to reflect the impact of adoption of ASC Topic 606.

**LIQUIDITY AND CAPITAL RESOURCES**

We endeavor to ensure the most efficient conversion of operating income into cash for deployment in our business and to maximize shareholder value through cash deployment activities. In addition to our cash position, we use various financial measures to assist in capital deployment decision-making, including cash used in operating activities and free cash flow, a non-GAAP measure described in more detail below.

Cash and cash equivalents and cash generated from operating activities, supplemented by borrowings under credit facilities and/or in the capital markets, if needed, are expected to be sufficient to fund our operations for at least the next 12 months.

**Operating Cash Flow**

The table below summarizes key components of cash flow used in operating activities:

<i>\$ in millions</i>	Three Months Ended March 31	
	2018	2017
Net earnings	\$ 739	\$ 650
Non-cash items <sup>(1)</sup>	86	112
Changes in assets and liabilities:		
Trade working capital	(1,008)	(1,267)
Retiree benefits	(56)	86
Other, net	2	(20)
Net cash used in operating activities	\$ (237)	\$ (439)

<sup>(1)</sup> Includes depreciation and amortization, stock based compensation expense and deferred income taxes.

Net cash used in operating activities for the three months ended March 31, 2018 decreased \$202 million, as compared with the same period in 2017, principally due to higher net earnings and changes in trade working capital. The net use of cash during the first quarter is consistent with the company's historical timing of operating cash flows, which are generally more heavily weighted toward the second half of the year.

**Free Cash Flow**

Free cash flow, as reconciled in the table below, is a non-GAAP measure defined as net cash used in operating activities less capital expenditures, and may not be defined and calculated by other companies in the same manner. We use free cash flow as a key factor in our planning for, and consideration of, acquisitions, stock repurchases, and the payment of dividends. This measure may be useful to investors and other users of our financial statements as a supplemental measure of our cash performance, but should not be considered in isolation, as a measure of residual cash flow available for discretionary purposes, or as an alternative to operating cash flows presented in accordance with GAAP.

The table below reconciles net cash used in operating activities to free cash flow:

<i>\$ in millions</i>	Three Months Ended March 31	
	2018	2017
Net cash used in operating activities	\$ (237)	\$ (439)
Less: capital expenditures	(305)	(216)
Free cash flow	\$ (542)	\$ (655)

Free cash flow for the three months ended March 31, 2018 increased \$113 million, as compared with the same period in 2017, principally due to the decrease in net cash used in operating activities described above, partially offset by higher capital expenditures at Aerospace Systems.

## NORTHROP GRUMMAN CORPORATION

### Investing Cash Flow

Net cash used in investing activities for the three months ended March 31, 2018 increased to \$307 million from \$214 million in the prior year period principally due to the higher capital expenditures described above.

### Financing Cash Flow

Net cash used in financing activities for the three months ended March 31, 2018 decreased to \$312 million from \$485 million in the prior year period. The decrease was primarily due to \$229 million of share repurchases in the first quarter of 2017 compared to no share repurchases in the first quarter of 2018.

*Credit Facilities and Financial Arrangements* - See Note 7 to the financial statements for further information on our credit facilities and our use of standby letters of credit and guarantees.

*Share Repurchases* - See Note 3 to the financial statements for further information on our share repurchase programs.

*Unsecured Senior Notes* - See Note 5 to the financial statements for further information.

### CRITICAL ACCOUNTING POLICIES, ESTIMATES AND JUDGMENTS

Effective January 1, 2018, we adopted ASC Topic 606, *Revenue from Contracts with Customers*, using the full retrospective method. ASC Topic 606 supersedes previous revenue recognition guidance, including ASC 605-35, *Revenue Recognition - Construction-Type and Production-Type Contracts*, and outlines a single set of comprehensive principles for recognizing revenue under GAAP. Under ASC Topic 606, revenue is recognized as control transfers to the customer. As such, under the new standard, revenue for our contracts is generally recognized over time using the cost-to-cost method, which is consistent with the revenue recognition model used for the majority of our contracts prior to the adoption of ASC Topic 606. In most cases the accounting for those contracts where we previously recognized revenue as units were delivered has changed under ASC Topic 606 such that we now recognize revenue as costs are incurred. In addition, for certain of our contracts, there is a change in the number of performance obligations under ASC Topic 606, which has altered the timing of revenue and margin recognition. See "Revenue Recognition" in Note 1 to the financial statements for additional information regarding our revenue recognition accounting policies.

### ACCOUNTING STANDARDS UPDATES

See Note 1 to our financial statements for further information on accounting standards updates.

### FORWARD-LOOKING STATEMENTS AND PROJECTIONS

This Form 10-Q and the information we are incorporating by reference contain statements, other than statements of historical fact, that constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as "will," "expect," "intend," "may," "could," "plan," "project," "forecast," "believe," "estimate," "outlook," "anticipate," "trends," "goals" and similar expressions generally identify these forward-looking statements.

Forward-looking statements include, among other things, statements relating to our future financial condition, results of operations and/or cash flows. Forward-looking statements are based upon assumptions, expectations, plans and projections that we believe to be reasonable when made, but which may change over time. These statements are not guarantees of future performance and inherently involve a wide range of risks and uncertainties that are difficult to predict. Specific risks that could cause actual results to differ materially from those expressed or implied in these forward-looking statements include, but are not limited to, those identified and discussed more fully in the section entitled "Risk Factors" in our 2017 Annual Report on Form 10-K and other filings with the Securities and Exchange Commission (SEC). They include:

- our dependence on the U.S. Government for a substantial portion of our business
- significant delays or reductions in appropriations for our programs and U.S. Government funding more broadly
- investigations, claims, disputes, enforcement actions and/or litigation
- the use of estimates when accounting for our contracts and the effect of contract cost growth and/or changes in estimated contract revenues and costs
- our exposure to additional risks as a result of our international business, including risks related to geopolitical and economic factors, laws and regulations



## **NORTHROP GRUMMAN CORPORATION**

- the improper conduct of employees, agents, subcontractors, suppliers, business partners or joint ventures in which we participate and the impact on our reputation, our ability to do business, and our financial position, results of operations and/or cash flows
- cyber and other security threats or disruptions faced by us, our customers or our suppliers and other partners
- the performance and financial viability of our subcontractors and suppliers and the availability and pricing of raw materials and components
- changes in procurement and other laws, regulations and practices applicable to our industry, findings by the U.S. Government as to our compliance with such laws and regulations, and changes in our customers' business practices globally
- increased competition within our markets and bid protests
- the ability to maintain a qualified workforce
- our ability to meet performance obligations under our contracts, including obligations that are technologically complex, require certain manufacturing expertise or are dependent on factors not wholly within our control
- environmental matters, including unforeseen environmental costs and government and third party claims
- natural and/or environmental disasters
- the adequacy and availability of our insurance coverage, customer indemnifications or other liability protections
- products and services we provide related to hazardous and high risk operations, which subject us to various environmental, regulatory, financial, reputational and other risks
- the future investment performance of plan assets, changes in actuarial assumptions associated with our pension and other post-retirement benefit plans and legislative or other regulatory actions impacting our pension, post-retirement and health and welfare plans
- the satisfaction of conditions (including regulatory approvals) to and successful consummation of the Orbital ATK Acquisition; our ability successfully to integrate the Orbital ATK business and realize fully the anticipated benefits of the acquisition, without adverse consequences
- our ability to exploit or protect intellectual property rights
- our ability to develop new products and technologies and maintain technologies, facilities, and equipment to win new competitions and meet the needs of our customers
- changes in business conditions that could impact business investments and/or recorded goodwill or the value of other long-lived assets
- unanticipated changes in our tax provisions or exposure to additional tax liabilities

Additional information regarding these risks and other important factors can be found in the section entitled "Risk Factors" in our 2017 Annual Report on Form 10-K and as disclosed in this report and from time to time in our other filings with the SEC.

You are urged to consider the limitations on, and risks associated with, forward-looking statements and not unduly rely on the accuracy of forward-looking statements. These forward-looking statements speak only as of the date this report is first filed or, in the case of any document incorporated by reference, the date of that document. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable law.

### **CONTRACTUAL OBLIGATIONS**

There have been no material changes to our contractual obligations from those discussed in our 2017 Annual Report on Form 10-K.

### **Item 3. Quantitative and Qualitative Disclosures About Market Risk**

There have been no material changes to our market risks from those discussed in our 2017 Annual Report on Form 10-K.

**NORTHROP GRUMMAN CORPORATION**

**Item 4. Controls and Procedures**

**DISCLOSURE CONTROLS AND PROCEDURES**

Our principal executive officer (Chairman and Chief Executive Officer) and principal financial officer (Corporate Vice President and Chief Financial Officer) have evaluated the company's disclosure controls and procedures (as defined in Rule 13a-15(e) and Rule 15d-15(e) of the Securities Exchange Act of 1934 (the Exchange Act)) as of March 31, 2018, and have concluded that these controls and procedures are effective to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms. These disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed in the reports that we file or submit is accumulated and communicated to management, including the principal executive officer and the principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

**CHANGES IN INTERNAL CONTROL OVER FINANCIAL REPORTING**

During the three months ended March 31, 2018, no change occurred in our internal controls over financial reporting that materially affected, or is reasonably likely to materially affect, our internal controls over financial reporting.

**NORTHROP GRUMMAN CORPORATION**

**PART II. OTHER INFORMATION**

**Item 1. Legal Proceedings**

We have provided information about certain legal proceedings in which we are involved in our 2017 Annual Report on Form 10-K, and updated that information in Notes 6 and 7 to the financial statements.

We are a party to various investigations, lawsuits, claims, enforcement actions and other legal proceedings, including government investigations and claims, that arise in the ordinary course of our business. These types of matters could result in administrative, civil or criminal fines, penalties or other sanctions (which terms include judgments or convictions and consent or other voluntary decrees or agreements); compensatory, treble or other damages; non-monetary relief or actions; or other liabilities. Government regulations provide that certain allegations against a contractor may lead to suspension or debarment from future government contracts or suspension of export privileges for the company or one or more of its components. The nature of legal proceedings is such that we cannot assure the outcome of any particular matter. However, based on information available to us to date and other than as noted in our 2017 Annual Report on Form 10-K, as updated by Notes 6 and 7 to the financial statements in this report, we do not believe that the outcome of any matter currently pending against the company is likely to have a material adverse effect on the company's unaudited condensed consolidated financial position as of March 31, 2018 or its annual results of operations and/or cash flows. For further information on the risks we face from existing and future investigations, lawsuits, claims, enforcement actions and other legal proceedings, please see "Risk Factors" in our 2017 Annual Report on Form 10-K.

**Item 1A. Risk Factors**

For a discussion of our risk factors please see the section entitled "Risk Factors" in our 2017 Annual Report on Form 10-K.

**Item 2. Unregistered Sales of Equity Securities and Use of Proceeds**

We had no repurchases of common stock during the three months ended March 31, 2018. The approximate dollar value of shares that may yet be purchased under the company's share repurchase authorization is \$2.3 billion as of March 31, 2018.

Share repurchases take place from time to time, subject to market conditions and management's discretion, in the open market or in privately negotiated transactions. The company retires its common stock upon repurchase.

See Note 3 to the financial statements for further information on our share repurchase programs.

**Item 3. Defaults Upon Senior Securities**

No information is required in response to this item.

**Item 4. Mine Safety Disclosures**

No information is required in response to this item.

**Item 5. Other Information**

No information is required in response to this item.

**NORTHROP GRUMMAN CORPORATION**

**Item 6. Exhibits**

- 2.1 [Agreement and Plan of Merger among Titan II, Inc. \(formerly Northrop Grumman Corporation\), Northrop Grumman Corporation \(formerly New P, Inc.\) and Titan Merger Sub Inc., dated March 30, 2011 \(incorporated by reference to Exhibit 10.1 to Form 8-K filed April 4, 2011, File No. 001-16411\)](#)
  - 2.2 [Separation and Distribution Agreement dated as of March 29, 2011, among Titan II, Inc. \(formerly Northrop Grumman Corporation\), Northrop Grumman Corporation \(formerly New P, Inc.\), Huntington Ingalls Industries, Inc., Northrop Grumman Shipbuilding, Inc. and Northrop Grumman Systems Corporation \(incorporated by reference to Exhibit 10.2 to Form 8-K filed April 4, 2011, File No. 001-16411\)](#)
  - 2.3 [Agreement and Plan of Merger, dated as of September 17, 2017, among Northrop Grumman Corporation, Neptune Merger, Inc. and Orbital ATK, Inc. \(incorporated by reference to Exhibit 2.1 to Form 8-K filed September 18, 2017\)](#)
  - \*+10.1 [Grant Certificate Specifying the Terms and Conditions Applicable to 2018 Restricted Stock Rights Granted Under the 2011 Long-Term Incentive Stock Plan](#)
  - \*+10.2 [Grant Certificate Specifying the Terms and Conditions Applicable to 2018 Restricted Performance Stock Rights Granted Under the 2011 Long-Term Incentive Stock Plan](#)
  - \*+10.3 [Severance Plan for Elected and Appointed Officers of Northrop Grumman Corporation as amended and restated effective February 11, 2018](#)
  - \*12(a) [Computation of Ratio of Earnings to Fixed Charges](#)
    - \*15 [Letter from Independent Registered Public Accounting Firm](#)
  - \*31.1 [Certification of Wesley G. Bush pursuant to Section 302 of the Sarbanes-Oxley Act of 2002](#)
  - \*31.2 [Certification of Kenneth L. Bedingfield pursuant to Section 302 of the Sarbanes-Oxley Act of 2002](#)
  - \*\*32.1 [Certification of Wesley G. Bush pursuant to Section 906 of the Sarbanes-Oxley Act of 2002](#)
  - \*\*32.2 [Certification of Kenneth L. Bedingfield pursuant to Section 906 of the Sarbanes-Oxley Act of 2002](#)
  - \*101 Northrop Grumman Corporation Quarterly Report on Form 10-Q for the quarter ended March 31, 2018, formatted in XBRL (Extensible Business Reporting Language): (i) the Condensed Consolidated Statements of Earnings and Comprehensive Income, (ii) Condensed Consolidated Statements of Financial Position, (iii) Condensed Consolidated Statements of Cash Flows, (iv) Condensed Consolidated Statements of Changes in Shareholders' Equity, and (v) Notes to Condensed Consolidated Financial Statements
- + Management contract or compensatory plan or arrangement
- \* Filed with this report
- \*\* Furnished with this report

**NORTHROP GRUMMAN CORPORATION**

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

NORTHROP GRUMMAN CORPORATION  
(Registrant)

By:

**/s/ Michael A. Hardesty**

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Michael A. Hardesty  
Corporate Vice President, Controller and  
Chief Accounting Officer  
(Principal Accounting Officer)

Date: April 24, 2018

# NORTHROP GRUMMAN CORPORATION

## TERMS AND CONDITIONS APPLICABLE TO 2018 RESTRICTED STOCK RIGHTS GRANTED UNDER THE 2011 LONG-TERM INCENTIVE STOCK PLAN

These Terms and Conditions (“Terms”) apply to certain “Restricted Stock Rights” (“RSRs”) granted by Northrop Grumman Corporation (the “Company”) in 2018 under its 2011 Long-Term Incentive Stock Plan. If you were granted an RSR award by the Company in 2017, the date of grant of your RSR award (the “Grant Date”) and the number of RSRs applicable to your award are set forth in the letter from the Company announcing your RSR award (your “Grant Letter”) and are also reflected in the electronic stock plan award recordkeeping system (“Stock Plan System”) maintained by the Company or its designee. These Terms apply only with respect to the 2018 RSR award. If you were granted an RSR award, you are referred to as the “Grantee” with respect to your award. Capitalized terms are generally defined in Section 12 below if not otherwise defined herein.

Each RSR represents a right to receive one share of the Company’s Common Stock, or cash of equivalent value as provided herein, subject to vesting as provided herein. The number of RSRs subject to your award is subject to adjustment as provided herein. The RSR award is subject to all of the terms and conditions set forth in these Terms, and is further subject to all of the terms and conditions of the Plan, as it may be amended from time to time, and any rules adopted by the Committee, as such rules are in effect from time to time. If you do not formally accept your RSR award, including these Terms, in accordance with the instructions and time limit set forth in your Grant Letter, you will be deemed to have forfeited your RSR award.

### 1. Vesting; Issuance of Shares.

Subject to Sections 2, 3, 4 and 6 below, one hundred percent (100%) of the number of RSRs (and any Dividend Equivalents (as defined below)) subject to your award (subject to adjustment as provided in Section 6.1) shall vest upon the third anniversary of the Grant Date, provided that if the third anniversary of the Grant Date falls on a weekend or holiday, then the award shall vest on the next business day.

**1.1 Payment of RSRs.** Except as otherwise provided below, the Company shall pay an RSR subject to the award that vests (“Vested RSR”) (and related Dividend Equivalents) within 60 days following the vesting of the RSR on the third anniversary of the Grant Date. The Company shall pay such Vested RSRs in either an equivalent number of shares of Common Stock, or, in the discretion of the Committee, in cash or in a combination of shares of Common Stock and cash. In the event of a cash payment, the amount of the payment for each Vested RSR to be paid in cash will equal the Fair Market Value (as defined below) of a share of Common Stock as of the date that such RSR became vested.

**1.2 Dividend Equivalents.** The Grantee shall be entitled to payment for Dividend Equivalents (if any) with respect to any Vested RSRs. For purposes of these Terms, “Dividend Equivalents” means the aggregate amount of dividends paid by the Company on a number of shares of Common Stock equivalent to the number of Vested RSRs during the period from the Grant date until

the date the Vested RSRs are paid (without interest or other adjustments to reflect the time value of money). Dividend Equivalents (if any) will be paid at the same time as the Vested RSRs to which they relate are paid. Dividend Equivalents will be paid in cash.

### 2. Early Termination of Award; Termination of Employment.

**2.1 General.** The RSRs (and related Dividend Equivalents) subject to the award, to the extent not previously vested, shall terminate and become null and void if and when (a) the award terminates in connection with a Change in Control pursuant to Section 6 below, or (b) except as provided in Sections 2.6 and 2.7, and in Section 6, the Grantee ceases for any reason to be an employee of the Company or one of its subsidiaries.

**2.2 Leave of Absence.** Unless the Committee otherwise provides (at the time of the leave or otherwise), if the Grantee is granted a leave of absence by the Company, the Grantee (a) shall not be deemed to have incurred a termination of employment at the time such leave commences for purposes of the award, and (b) shall be deemed to be employed by the Company for the duration of such approved leave of absence for purposes of the award. A termination of employment shall be deemed to have occurred if the Grantee does not timely return to active employment upon the expiration of such approved leave or if the Grantee commences a leave that is not approved by the Company.

**2.3 Salary Continuation.** Subject to Section 2.2 above, the term “employment” as used herein means active employment by the Company and salary

continuation without active employment (other than a leave of absence approved by the Company that is covered by Section 2.2) will not, in and of itself, constitute "employment" for purposes hereof (in the case of salary continuation without active employment, the Grantee's cessation of active employee status shall, subject to Section 2.2, be deemed to be a termination of "employment" for purposes hereof). Furthermore, salary continuation will not, in and of itself, constitute a leave of absence approved by the Company for purposes of the award.

**2.4 Sale or Spinoff of Subsidiary or Business Unit.** For purposes of the RSRs (and related Dividend Equivalents) subject to the award, a termination of employment of the Grantee shall be deemed to have occurred if the Grantee is employed by a subsidiary or business unit and that subsidiary or business unit is sold, spun off, or otherwise divested, the Grantee does not otherwise continue to be employed by the Company or one of its subsidiaries after such event, and the divested entity or business (or its successor or a parent company) does not assume the award in connection with such transaction. In the event of such a termination of employment, the termination shall be deemed to be an Early Retirement unless the Grantee was otherwise eligible at the time of termination for Normal Retirement (in which case, the termination shall be considered a Normal Retirement) treated as provided for in Section 2.7 (subject to Section 6).

**2.5 Continuance of Employment Required.** Except as expressly provided in Section 2.6, Section 2.7 and in Section 6, the vesting of the RSRs (and related Dividend Equivalents) subject to the award requires continued employment through the third anniversary of the Grant Date as a condition to the vesting of any portion of the award. Employment for only a portion of the vesting period, even if a substantial portion, will not entitle the Grantee to any proportionate vesting or avoid or mitigate a termination of rights and benefits upon or following a termination of employment. Nothing contained in these Terms, the Stock Plan System, or the Plan constitutes an employment commitment by the Company or any subsidiary, affects the Grantee's status (if the Grantee is otherwise an at-will employee) as an employee at will who is subject to termination without cause, confers upon the Grantee any right to continue in the employ of the Company or any subsidiary, or interferes in any way with the right of the Company or of any subsidiary to terminate such employment at any time.

**2.6 Death or Disability.** If the Grantee dies or incurs a Disability while employed by the Company or a subsidiary and such death or Disability occurs more than

six months after the Grant Date, the outstanding and previously invested RSRs (and related Dividend Equivalents) subject to the award shall vest as of the date of the Grantee's death or Disability, as applicable. RSRs (and related Dividend Equivalents) vesting under this Section shall be paid within 60 days following the earlier of (a) Grantee's death or (b) Grantee's Disability. In the event of the Grantee's death prior to the delivery of shares or other payment with respect to any vested RSRs (and related Dividend Equivalents), the Grantee's Successor shall be entitled to any payments to which the Grantee would have been entitled under these Terms with respect to such vested and unpaid RSRs (and related Dividend Equivalents).

**2.7 Termination of Employment Due to Retirement.** If the Grantee ceases to be employed by the Company or one of its subsidiaries due to the Grantee's Early Retirement and such Early Retirement occurs more than six months after the Grant Date, the RSRs (and related Dividend Equivalents) subject to the award shall vest on a prorated basis. Such prorating of RSRs (and related Dividend Equivalents) shall be determined based on the number of days the Grantee was employed by the Company or a subsidiary in the period commencing with the Grant Date through and including the date on which the Grantee is last employed by the Company or a subsidiary, over the number of calendar days in the period commencing with the Grant Date through and including the third anniversary of the Grant Date. Any remaining unvested RSRs (and related Dividend Equivalents), after giving effect to the foregoing acceleration of vesting, shall terminate immediately upon the Grantee's Early Retirement. If the Grantee ceases to be employed by the Company or one of its subsidiaries due to the Grantee's Normal Retirement and such Normal Retirement occurs more than six months after the Grant Date, the RSRs (and related Dividend Equivalents) subject to the award shall vest in full.

Subject to the following provisions of this paragraph, RSRs (and related Dividend Equivalents) vesting under this Section shall be paid within 60 days following the Grantee's Separation from Service. However, in the case of a Governmental Service Retirement by the Grantee, payment of the vested RSRs (and related Dividend Equivalents) will be made within 20 days after the Grantee's Early or Normal Retirement. If the Grantee is a Key Employee as of the date of the Grantee's Separation from Service, the Grantee shall not be entitled to payment of his or her vested RSRs (and related Dividend Equivalents) pursuant to this Section until the earlier of (and payment shall be made upon or promptly after, and in all events within thirty (30) days after, the first to occur of) (a) the date which is six (6) months and one day after the Grantee's Separation from Service, or (b) the date of the Grantee's death. The

provisions of the preceding sentence shall only apply if, and to the extent, required to avoid the imputation of any tax, penalty or interest pursuant to Section 409A of the Code.

In determining the Grantee's eligibility for Early or Normal Retirement, service is measured by dividing (a) the number of days the Grantee was employed by the Company or a subsidiary in the period commencing with his or her last date of hire by the Company or a subsidiary through and including the date on which the Grantee is last employed by the Company or a subsidiary, by (b) 365. If the Grantee ceased to be employed by the Company or a subsidiary and was later rehired by the Company or a subsidiary, the Grantee's service prior to the break in service shall be disregarded in determining service for such purposes; provided that, if the Grantee's employment with the Company or a subsidiary had terminated due to the Grantee's Early Retirement, Normal Retirement, or by the Company or a subsidiary as part of a reduction in force (in each case, other than a termination by the Company or a subsidiary for Cause) and, within the two-year period following such termination of employment (the "break in service") the Grantee was subsequently rehired by the Company or a subsidiary, then the Grantee's period of service with the Company or a subsidiary prior to and ending with the break in service will be included in determining service for such purposes. In the event the Grantee is employed by a business that is acquired by the Company or a subsidiary, the Company shall have discretion to determine whether the Grantee's service prior to the acquisition will be included in determining service for such purposes.

### **3. Non-Transferability and Other Restrictions.**

**3.1 Non-Transferability.** The award, as well as the RSRs (and related Dividend Equivalents) subject to the award, are non-transferable and shall not be subject in any manner to sale, transfer, anticipation, alienation, assignment, pledge, encumbrance or charge. The foregoing transfer restrictions shall not apply to transfers to the Company. Notwithstanding the foregoing, the Company may honor any transfer required pursuant to the terms of a court order in a divorce or similar domestic relations matter to the extent that such transfer does not adversely affect the Company's ability to register the offer and sale of the underlying shares on a Form S-8 Registration Statement and such transfer is otherwise in compliance with all applicable legal, regulatory and listing requirements.

**3.2 Forfeiture or Recoupment of Awards.** If, prior to payment or issuance of shares with respect to the award, Grantee's employment is terminated for Cause (or

Grantee has engaged in misconduct that could have resulted in Grantee's termination of employment for Cause if Grantee had remained an employee), the Company may reduce or eliminate any payments or issuances of shares with respect to the award. Further, any payments or issuances of shares with respect to the award are subject to recoupment pursuant to the Company's Policy Regarding the Recoupment of Certain Performance-Based Compensation Payments as in effect from time to time, as well as any recoupment or similar provisions of applicable law, and the Grantee shall promptly make any reimbursement requested by the Board or Committee pursuant to such policy or applicable law with respect to the award. The Grantee agrees, by accepting the award, that the Company and its affiliates may deduct from any amounts it may owe the Grantee from time to time (such as wages or other compensation) to the extent of any amounts the Grantee is required to reimburse the Company pursuant to such policy or applicable law with respect to the award.

### **4. Post-Employment Conduct.**

**4.1 Corporate Policy Council Contribution.** You acknowledge and agree that as a member of the Corporate Policy Council ("CPC"), you are involved in managing the global operations of the Company, incorporated in Delaware and headquartered in Virginia. You are involved in the most sensitive and proprietary matters affecting the Company, its subsidiaries, predecessors, and/or affiliates (collectively, "Northrop Grumman"), including from a technical, strategic and financial perspective, and are widely exposed to confidential, sensitive and proprietary information concerning Northrop Grumman's global operations, at the headquarters and each of the operating sectors, including in the areas of manned and unmanned aircraft, space, C4ISR, cyber, sensors, electronics, through-life support and technical services. Your job responsibilities require that you have a primary office location in Virginia and/or you spend substantial time at the corporate headquarters in Virginia, among other things, attending CPC and other leadership meetings, and managing operations and employees in Virginia. You occupy one of the most senior executive positions in the Company and have far-reaching access to highly confidential, valuable and sensitive information, customer, vendor and employee relationships, intellectual property, strategic and tactical plans, and financial information and plans. The Company has a legitimate business interest in restricting your ability to compete in the specific manner set forth below. The Company has provided you this grant, subject to these Terms and as consideration for the restrictive covenants set forth in this section 4.



**4.2 Non-Competition.** For a period of twelve (12) months from the date of the termination of Grantee's employment for any reason (other than a Reduction-in-Force as determined at the Company's sole discretion) ("Termination"), you will not, directly or indirectly, oversee, control, participate in, or support the design, operation, research, manufacture, marketing, sale, or distribution of "Competitive Products and Services". For the purpose of this section, "Competitive Products and Services" shall mean products or services that compete for resources with, or are an alternative or potential alternative to, the products sold or services provided by Northrop Grumman, including without limitation products and services in the areas of manned and unmanned aircraft, space, C4ISR, cyber, sensors, electronics, through-life support and technical services.

**4.3 Non-Solicitation of Customers.** For a period of eighteen (18) months from your Termination, you shall not, directly or indirectly, solicit any customer, supplier, or teammate of Northrop Grumman with whom you engaged, or about whom you received confidential, sensitive, or proprietary information, in the course of your employment with Northrop Grumman, for purposes of providing products or services in competition with Northrop Grumman. In the case of a governmental, regulatory or administrative agency, commission, department or other governmental authority, the customer is determined by reference to the specific program offices or activities for which Northrop Grumman provides goods or services.

**4.4 Non-Solicitation of Employees.** For a period of twenty-four (24) months from your Termination, you shall not, directly or indirectly, solicit or offer to hire, any person who was, within a period of six months prior to your Termination, employed by Northrop Grumman, with whom you worked or about whom you received information in the course of your employment with Northrop Grumman.

**4.5 Non-Disparagement.** You will not issue or communicate any statement, whether verbal or written, or take any other action that disparages or may be interpreted to disparage the Company, its products, services, officers, directors, or employees; provided that the foregoing shall not apply to any truthful statements made in connection with a legal process, including government investigation.

**4.6 Exceptions.** You may request an exception to the covenants in Sections 4.2, 4.3, or 4.4 by making a written request to the Company's Chief Human Resources Officer, with such exceptions being considered at the sole discretion of the Company and

communicated in writing to you.

**4.7 Reasonableness.** You agree that the restrictions set forth in Sections 4.2, 4.3, and 4.4 are (i) reasonable and necessary in all respects, including duration, territory and scope of activity, in order to protect the Company's legitimate business interests, (ii) that the parties have attempted to limit your right to compete only to the extent necessary to protect the Company's legitimate business interests, and (iii) that you will be able to earn a livelihood without violating the restrictions in this section. It is the intent of the parties that the provisions of this section shall be enforced to the fullest extent permissible under applicable law. However, if any portion of Sections 4.2, 4.3, or 4.4 is deemed unenforceable, the parties agree that a court or arbitrator may revise the portion deemed unenforceable to the maximum extent possible to achieve the objective of the parties, and the remainder of the section shall remain in full force and affect.

**4.8 Remedies.** If you violate any provision in Section 4.2, 4.3, 4.4 and/or 4.5 of this section, the Company shall have the right to terminate without payment to you any unvested and/or unpaid RSRs (and associated Dividend Equivalents) and require that you immediately deliver to the Company an amount in cash equal to the aggregate Fair Market Value, determined as of the vesting and/or payment date of all RSRs already received, including any Dividend Equivalents, within one year prior to the breach. Further, you acknowledge and agree that a breach of any of the provisions of this section will result in immediate, irreparable, and continuing damage to the Company for which there is no adequate remedy at law, and the Company will be entitled to injunctive relief, a decree of specific performance, and other relief as may be proper, including monetary damages, to the maximum extent available.

## **5. Compliance with Laws; No Stockholder Rights Prior to Issuance.**

The Company's obligation to make any payments or issue any shares with respect to the award is subject to full compliance with all then applicable requirements of law, the Securities and Exchange Commission, or other regulatory agencies having jurisdiction over the Company and its shares, and of any exchange upon which stock of the Company may be listed. The Grantee shall not have the rights and privileges of a stockholder, including without limitation the right to vote or receive dividends (except as expressly provided in these Terms with respect to Dividend Equivalents), with respect to any shares which may be issued in respect of the RSRs until the date appearing on the certificate(s) for such shares (or, in the case of shares entered in book entry

form, the date that the shares are actually recorded in such form for the benefit of the Grantee), if such shares become deliverable.

## **6. Adjustments; Change in Control.**

**6.1. Adjustments.** The RSRs, Dividend Equivalents, and the shares subject to the award are subject to adjustment upon the occurrence of events such as stock splits, stock dividends and other changes in capitalization in accordance with Section 6(a) of the Plan.

**6.2. Possible Acceleration on Change in Control.** Notwithstanding the provisions of Section 2 hereof, and further subject to the Company's ability to terminate the award as provided in Section 6.3 below, the outstanding and previously unvested RSRs (and related Dividend Equivalents) subject to the award shall become fully vested as of the date of the Grantee's termination of employment if the termination occurs either within the Protected Period corresponding to a Change in Control of the Company or within twenty-four (24) calendar months following the date of a Change in Control of the Company, the Grantee's employment by the Company and its subsidiaries is involuntarily terminated by the Company and its subsidiaries for reasons other than Cause or by the Grantee for Good Reason.

Notwithstanding anything else contained herein to the contrary, the termination of the Grantee's employment (or other events giving rise to Good Reason) shall not entitle the Grantee to any accelerated vesting pursuant to this Section 6.2 if there is objective evidence that, as of the commencement of the Protected Period, the Grantee had specifically been identified by the Company as an employee whose employment would be terminated as part of a corporate restructuring or downsizing program that commenced prior to the Protected Period and such termination of employment was expected at that time to occur within six (6) months.

Payment of any RSRs (and related Dividend Equivalents) that vest under this Section will be made at the time provided for in Section 2.7 as though the termination of the Grantee's employment was due to a Normal Retirement.

**6.3. Automatic Acceleration; Early Termination.** If the Company undergoes a Change in Control triggered by clause (iii) or (iv) of the definition thereof and the Company is not the surviving entity and the successor to the Company (if any) (or a Parent thereof) does not agree in writing prior to the occurrence of the Change in Control to continue and assume the award following the Change in Control, or if for any other reason the award

would not continue after the Change in Control, then upon the Change in Control the outstanding and previously unvested RSRs (and related Dividend Equivalents) subject to the award shall vest fully and completely. Unless the Committee expressly provides otherwise in the circumstances, no acceleration of vesting of the award shall occur pursuant to this Section 6.3 in connection with a Change in Control if either (a) the Company is the surviving entity, or (b) the successor to the Company (if any) (or a Parent thereof) agrees in writing prior to the Change in Control to assume the award. The Committee may make adjustments pursuant to Section 6(a) of the Plan and/or deem an acceleration of vesting of the award pursuant to this Section 6.3 to occur sufficiently prior to an event if necessary or deemed appropriate to permit the Grantee to realize the benefits intended to be conveyed with respect to the shares underlying the RSRs (and related Dividend Equivalents); provided, however, that, the Committee may reinstate the original terms of the award if the related event does not actually occur.

Payment of any RSRs (and related Dividend Equivalents) that vest under this Section 6.3 will be made within 60 days of the third anniversary of the Grant Date unless, prior to such date: (i) the Grantee dies or has a Disability, in which case such payment will be made within 60 days of the Grantee's death or Disability, as the case may be, or (ii) the Grantee has a Separation from Service, in which case such payment will be made at the time provided for in Section 2.7 as though the termination of the Grantee's employment was due to a Normal Retirement.

## **7. Tax Matters.**

**7.1. Tax Withholding.** The Company or the subsidiary which employs the Grantee shall be entitled to require, as a condition of making any payments or issuing any shares upon vesting of the RSRs (and related Dividend Equivalents), that the Grantee or other person entitled to such shares or other payment pay the minimum sums required to be withheld by federal, state, local or other applicable tax law with respect to such vesting or payment. Alternatively, the Company or such subsidiary, in its discretion, may make such provisions for the withholding of taxes as it deems appropriate (including, without limitation, withholding the taxes due from compensation otherwise payable to the Grantee or reducing the number of shares otherwise deliverable with respect to the award (valued at their then Fair Market Value) by the amount necessary to satisfy such statutory minimum withholding obligations).

**7.2. Transfer Taxes.** The Company will pay all federal and state transfer taxes, if any, and other fees and expenses in connection with the issuance of shares in connection with the vesting of the RSRs.

**7.3. Compliance with Code.** The Committee shall administer and construe the award, and may amend the Terms of the award, in a manner designed to comply with the Code and to avoid adverse tax consequences under Code Section 409A.

**7.4. Unfunded Arrangement.** The right of the Grantee to receive payment under the award shall be an unsecured contractual claim against the Company. As such, neither the Grantee nor any Successor shall have any rights in or against any specific assets of the Company based on the award. Awards shall at all times be considered entirely unfunded for tax purposes.

**7.5 Code Section 280G.** Notwithstanding any other provision of this Agreement to the contrary, in the event that any amounts payable to you as a result of Section 6.2 or 6.3 hereof, either alone or together with amounts payable pursuant to any other plan, program or arrangement (a) constitute “parachute payments” within the meaning of Section 280G of the Code, and (b) but for this Section 7.5 would be subject to the excise tax imposed by Section 4999 of the Code or any comparable successor provisions (the “Excise Tax”), then the vesting acceleration provided in Section 6.2 or 6.3, as applicable, shall be either (a) provided to you in full, or (b) provided to you to such lesser extent that would result in no portion of the payments so accelerated being subject to the Excise Tax, whichever of the foregoing amounts, when taking into account applicable federal, state, local and foreign income and employment taxes, the Excise Tax, and any other applicable taxes, results in the receipt by you, on an after-tax basis, of the greatest amount of benefits, notwithstanding that all or some portion of such benefits may be subject to the Excise Tax. All determinations required to be made under this Section 7.5 shall be made by a registered public accounting firm selected by the Company, which shall provide supporting calculations both to the Company and you no later than the date of the applicable Change in Control. In the event that the Payments are to be reduced pursuant to this Section 7.5, such Payments shall be reduced such that the reduction of compensation to be provided to the Executive as a result of this Section 7.5 is minimized. In applying this principle, the reduction shall be made in a manner consistent with the requirements of Section 409A and where two economically equivalent amounts are subject to reduction but payable at different times, such amounts shall be reduced on a pro rata basis but not below zero.

**8. Choice of Law; Venue; Arbitration.**

This agreement shall be governed by the laws of the State of Delaware. Any cause of action or claim arising out of or related to the terms and conditions

applicable to this grant will be determined through final and binding arbitration, in accordance with Northrop Grumman CTM H200 USHR 2-32, provided that the prevailing party in the arbitration shall be entitled to receive from the losing party reasonably incurred attorneys’ fees and costs. You and the Company agree that any arbitration hearing and related proceedings shall be convened and conducted in Falls Church, VA. If you or the Company believes they require immediate relief to enforce or challenge these terms, before arbitration is commenced or concluded, either party may seek injunctive or other provisional equitable relief from a state or federal court in the Commonwealth of Virginia. All court actions or proceedings arising under these terms shall be heard in a state or federal court in the Commonwealth of Virginia. The Company and you hereby agree to the jurisdiction of the state and federal courts in the Commonwealth of Virginia and waive any right to object to such actions on grounds of venue, jurisdiction or convenience.

**9. Committee Authority.**

The Committee has the discretionary authority to determine any questions as to the date when the Grantee’s employment terminated and the cause of such termination and to interpret any provision of these Terms, the Grant Letter, the Stock Plan System, the Plan, and any other applicable rules. Any action taken by, or inaction of, the Committee relating to or pursuant to these Terms, the Grant Letter, the Stock Plan System, the Plan, or any other applicable rules shall be within the absolute discretion of the Committee and shall be conclusive and binding on all persons.

**10. Plan; Amendment.**

The RSRs (and related Dividend Equivalents) subject to the award are governed by, and the Grantee’s rights are subject to, all of the terms and conditions of the Plan and any other rules adopted by the Committee, as the foregoing may be amended from time to time. The Grantee shall have no rights with respect to any amendment of these Terms or the Plan unless such amendment is in writing and signed by a duly authorized officer of the Company. In the event of a conflict between the provisions of the Grant Letter and/or the Stock Plan System and the provisions of these Terms and/or the Plan, the provisions of these Terms and/or the Plan, as applicable, shall control.

**11. Required Holding Period.**

The holding requirements of this Section 11 shall apply to any Grantee who is an elected or appointed officer of the Company on the date Vested RSRs are paid (or, if earlier, on the date the Grantee’s employment by the Company and its subsidiaries terminates for any

reason). Any Grantee subject to this Section 11 shall not be permitted to sell, transfer, anticipate, alienate, assign, pledge, encumber or charge the number of shares equal to 50% of the total payout of Vested RSRs (net of taxes withheld) until the earlier of (A) the third anniversary of the date such shares of Common Stock are paid to the Grantee, (B) the date the Grantee's employment by the Company and its subsidiaries terminates due to the Grantee's death or Disability, (C) the occurrence of a Change in Control that results in termination and payment under Section 6.2 or 6.3 above, or (D) with respect to Grantee's entering a U.S. federal government position only, the latest of (i) the date the Grantee's employment with the Company terminates, or (ii) the date the Grantee formally accepts the government position in writing, or (iii) the date the government confirms the Grantee (for positions requiring nomination and confirmation). For purposes of this Section 11, the total payout of Vested RSRs shall be determined on a net basis after taking into account any shares otherwise deliverable with respect to the award that the Company withholds to satisfy tax obligations pursuant to Section 7.1. If Grantee is paid less than 50% of the total payout of Vested RSRs (net of taxes) in shares, then all of the shares received will be subject to the holding period requirements in this Section 11. Any shares of Common Stock received in respect of shares that are covered by the holding period requirements of this Section 11 (such as shares received in respect of a stock split or stock dividend) shall be subject to the same holding period requirements as the shares to which they relate.

## 12. Definitions.

Whenever used in these Terms, the following terms shall have the meanings set forth below and, when the meaning is intended, the initial letter of the word is capitalized:

“**Board**” means the Board of Directors of the Company.

“**Cause**” means the occurrence of either or both of the following:

- (i) The Grantee's conviction for committing an act of fraud, embezzlement, theft, or other act constituting a felony (other than traffic related offenses, as a result of vicarious liability, or as a result of good faith actions as an officer of the Company); or
- (ii) Willful misconduct by the Grantee that causes financial or reputational harm to the Company. However, no act, or failure to act, on the Grantee's part shall be considered “willful”

unless done, or omitted to be done, by the Grantee not in good faith and without reasonable belief that his or her action or omission was in the best interest of the Company.

“**Change in Control**” is used as defined in the Plan.

“**Code**” means the United States Internal Revenue Code of 1986, as amended.

“**Committee**” means the Company's Compensation Committee or any successor committee appointed by the Board to administer the Plan.

“**Common Stock**” means the Company's common stock.

“**Disability**” means, with respect to a Grantee, that the Grantee: (i) is unable to engage in any substantial gainful activity by reason of any medically determinable physical or mental impairment which can be expected to result in death or can be expected to last for a continuous period of not less than twelve months; or (ii) is, by reason of any medically determinable physical or mental impairment which can be expected to result in death or can be expected to last for a continuous period of not less than twelve months, receiving income replacement benefits for a period of not less than three months under an accident and health plan covering employees of the Grantee's employer; all construed and interpreted consistent with the definition of “Disability” set forth in Code Section 409A(a)(2)(C).

“**Early Retirement**” means that the Grantee's employment terminates in any of the following circumstances, and other than a termination of employment that constitutes a Normal Retirement or occurs in connection with a termination by the Company or a subsidiary for Cause:

- (i) a termination of employment after the Grantee has attained age 55 with at least 10 years of service.
- (ii) a termination of employment by the Company or a subsidiary as part of a reduction in force and, at the time of such termination, the Grantee has attained age 53 with at least 10 years of service.
- (iii) a termination of employment by the Company or a subsidiary as part of a reduction in force and, at the time of such termination, the sum of the Grantee's age and years of service is at least 75.

“**Fair Market Value**” is used as defined in the Plan; provided, however, the Committee in determining such Fair Market Value for purposes of the award may

utilize such other exchange, market, or listing as it deems appropriate.

“**Good Reason**” means, without the Grantee’s express written consent, the occurrence of any one or more of the following:

- (i) A material and substantial reduction in the nature or status of the Grantee’s authorities or responsibilities (when such authorities and/or responsibilities are viewed in the aggregate) from their level in effect on the day immediately prior to the start of the Protected Period, other than (A) an inadvertent act that is remedied by the Company promptly after receipt of notice thereof given by the Grantee, and/or (B) changes in the nature or status of the Grantee’s authorities or responsibilities that, in the aggregate, would generally be viewed by a nationally-recognized executive placement firm as resulting in the Grantee having not materially and substantially fewer authorities and responsibilities (taking into consideration the Company’s industry) when compared to the authorities and responsibilities applicable to the position held by the Grantee immediately prior to the start of the Protected Period. The Company may retain a nationally-recognized executive placement firm for purposes of making the determination required by the preceding sentence and the written opinion of the firm thus selected shall be conclusive as to this issue.

In addition, if the Grantee is a vice president, the Grantee’s loss of vice-president status will constitute “Good Reason”; provided that the loss of the title of “vice president” will not, in and of itself, constitute Good Reason if the Grantee’s lack of a vice president title is generally consistent with the manner in which the title of vice president is used within the Grantee’s business unit or if the loss of the title is the result of a promotion to a higher level office. For the purposes of the preceding sentence, the Grantee’s lack of a vice-president title will only be considered generally consistent with the manner in which such title is used if most persons in the business unit with authorities, duties, and responsibilities comparable to those of the Grantee immediately prior to the commencement of the Protected Period do not have the title of vice-president.

- (ii) A material reduction by the Company in the Grantee’s annualized rate of base salary as in effect at the start of the Protected Period, or as

the same shall be increased from time to time.

- (iii) A material reduction in the aggregate value of the Grantee’s level of participation in any of the Company’s short and/or long-term incentive compensation plans (excluding stock-based incentive compensation plans), employee benefit or retirement plans, or policies, practices, or arrangements in which the Grantee participates immediately prior to the start of the Protected Period; provided, however, that a reduction in the aggregate value shall not be deemed to be “Good Reason” if the reduced value remains substantially consistent with the average level of other employees who have positions commensurate with the position held by the Grantee immediately prior to the start of the Protected Period.
- (iv) A material reduction in the Grantee’s aggregate level of participation in the Company’s stock-based incentive compensation plans from the level in effect immediately prior to the start of the Protected Period; provided, however, that a reduction in the aggregate level of participation shall not be deemed to be “Good Reason” if the reduced level of participation remains substantially consistent with the average level of participation of other employees who have positions commensurate with the position held by the Grantee immediately prior to the start of the Protected Period.
- (v) The Grantee is informed by the Company that his or her principal place of employment for the Company will be relocated to a location that is greater than fifty (50) miles away from the Grantee’s principal place of employment for the Company at the start of the corresponding Protected Period; provided that, if the Company communicates an intended effective date for such relocation, in no event shall Good Reason exist pursuant to this clause (v) more than ninety (90) days before such intended effective date.

The Grantee’s right to terminate employment for Good Reason shall not be affected by the Grantee’s incapacity due to physical or mental illness. The Grantee’s continued employment shall not constitute a consent to, or a waiver of rights with respect to, any circumstances constituting Good Reason herein.

“**Governmental Service Retirement**” means an Early or Normal Retirement by the Grantee where the Grantee accepts a position in the federal government or a state or local government and an accelerated distribution under the award is permitted under Code Section 409A based on such government employment and related ethics rules.

**“Key Employee”** means an employee treated as a “specified employee” under Code section 409A(a)(2)(B)(i) of the Company or an Affiliated Company (i.e., a key employee (as defined in Code section 416(i) without regard to paragraph (5) thereof) if the Company’s or an Affiliated Company’s stock is publicly traded on an established securities market or otherwise. The Company shall determine in accordance with a uniform Company policy which participants are Key Employees as of each December 31 in accordance with IRS regulations or other guidance under Section 409A. Such determination shall be effective for the twelve (12) month period commencing on April 1 of the following year.

**“Normal Retirement”** means that the Grantee terminates employment after attaining age 65 with at least 10 years of service (other than in connection with a termination by the Company or a subsidiary for Cause). In the case of a Grantee who is an officer of the Company subject to the Company’s mandatory retirement at age 65 policy and who, at the applicable time, is not otherwise eligible for Normal Retirement as defined in the preceding sentence, “Normal Retirement” as to that Grantee means that the Grantee’s employment is terminated pursuant to such mandatory retirement policy (regardless of the Grantee’s years of service and other than in connection with a termination by the Company or a subsidiary for Cause).

**“Parent”** is used as defined in the Plan.

**“Plan”** means the Northrop Grumman 2011 Long-Term Incentive Stock Plan, as it may be amended from time to time.

The **“Protected Period”** corresponding to a Change in Control of the Company shall be a period of time determined in accordance with the following:

- (i) If the Change in Control is triggered by a tender offer for shares of the Company’s stock or by the offeror’s acquisition of shares pursuant to such a tender offer, the Protected Period shall commence on the date of the initial tender offer and shall continue through and including the date of the Change in Control; provided that in no case will the Protected Period commence earlier than the date that is six (6) months prior to the Change in Control.
- (ii) If the Change in Control is triggered by a merger, consolidation, or reorganization of the Company with or involving any other corporation, the Protected Period shall commence on the date that serious and substantial discussions first take

place to effect the merger, consolidation, or reorganization and shall continue through and including the date of the Change in Control; provided that in no case will the Protected Period commence earlier than the date that is six (6) months prior to the Change in Control.

- (iii) In the case of any Change in Control not described in clause (i) or (ii) above, the Protected Period shall commence on the date that is six (6) months prior to the Change in Control and shall continue through and including the date of the Change in Control.

**“Separation from Service”** means when the Grantee dies, retires, or otherwise has a termination of employment with the Company and its subsidiaries that constitutes a “separation from service” within the meaning of United States Treasury Regulation Section 1.409A-1(h)(1), without regard to the optional alternative definitions available thereunder.

**“Successor”** means the person acquiring a Grantee’s rights to a grant under the Plan by will or by the laws of descent or distribution.

**NORTHROP GRUMMAN CORPORATION**  
**TERMS AND CONDITIONS APPLICABLE TO**  
**2018 RESTRICTED PERFORMANCE STOCK RIGHTS**  
**GRANTED UNDER THE 2011 LONG-TERM INCENTIVE STOCK PLAN**

These Terms and Conditions (“Terms”) apply to certain “Restricted Performance Stock Rights” (“RPSRs”) granted by Northrop Grumman Corporation (the “Company”) in 2018 under its 2011 Long-Term Incentive Stock Plan. If you were granted an RPSR award by the Company in 2018, the date of grant of your RPSR award and the target number of RPSRs applicable to your award are set forth in the letter from the Company announcing your RPSR award (your “Grant Letter”) and are also reflected in the electronic stock plan award recordkeeping system (“Stock Plan System”) maintained by the Company or its designee. These Terms apply only with respect to the 2018 RPSR award. If you were granted an RPSR award, you are referred to as the “Grantee” with respect to your award. Capitalized terms are generally defined in Section 12 below if not otherwise defined herein.

Each RPSR represents a right to receive one share of the Company’s Common Stock, or cash of equivalent value as provided herein subject to vesting as provided herein. The performance period applicable to your award is January 1, 2018 to December 31, 2020 (the “Performance Period”). The target number of RPSRs subject to your award is subject to adjustment as provided herein. The RPSR award is subject to all of the terms and conditions set forth in these Terms, and is further subject to all of the terms and conditions of the Plan, as it may be amended from time to time, and any rules adopted by the Committee, as such rules are in effect from time to time. If you do not formally accept your RPSR award, including these Terms, in accordance with the instructions and time limit set forth in your Grant Letter, you will be deemed to have forfeited your RPSR award.

**1. Vesting; Payment of RPSRs.**

The RPSRs are subject to the vesting and payment provisions established by the Committee with respect to the Performance Period. RPSRs (and any Dividend Equivalents (as defined below)) that vest based on such provisions will be paid as provided below.

**1.1. *Performance-Based Vesting of RPSRs.*** Subject to Sections 2, 3, 4 and 6 below, the RPSRs subject to the award shall vest and become nonforfeitable based on the performance methodology and goals established by the Committee for the Performance Period. At the conclusion of the Performance Period, the Committee shall determine whether and the extent to which the performance goals have been achieved. The percentage of target RPSRs subject to the award (if any) that have vested for the Performance Period (the “Earnout Percentage”) shall be determined by the Committee based on the methodology and goals as established by the Committee, and its determination of the Earnout Percentage shall be conclusive and binding. Any RPSRs (and related Dividend Equivalents) subject to the award that are not vested as of the conclusion of the Performance Period after giving effect to the Committee’s determinations under this Section 1.1 shall terminate and become null and void as of the last day of the Performance Period.

**1.2. *Payment of RPSRs.*** The number of RPSRs payable at the conclusion of the Performance Period (“Vested RPSRs”) shall be determined by multiplying

the Earnout Percentage by the target number of RPSRs subject to the award. The Vested RPSRs and any RPSRs that vest and become payable pursuant to Section 2 or 6 may be paid out in either an equivalent number of shares of Common Stock, or, in the discretion of the Committee, in cash or in a combination of shares of Common Stock and cash. In the event of a cash payment, the amount of payment for each Vested RPSR to be paid in cash will equal the Fair Market Value (as defined below) of a share of Common Stock as of the date the Committee determines the extent to which the applicable RPSR performance criteria have been achieved. Vested RPSRs will be paid within 60 days of the vesting date, but in no event later than March 15 of the year following the last day of the Performance Period.

**1.3. *Dividend Equivalents.*** The Grantee shall be entitled to payment for Dividend Equivalents (if any) with respect to any Vested RPSRs and any RPSRs that vest and become payable pursuant to Section 2 or 6. For purposes of these Terms, “Dividend Equivalents” means the aggregate amount of dividends paid by the Company on a number of shares of Common Stock equivalent to the number of Vested RPSRs (or the number of RPSRs that vest and become payable pursuant to Section 2 or 6) during the period from the beginning of the Performance Period until the date the Vested RPSRs (or the RPSRs that vest and become payable pursuant to Section 2 or 6) are paid, without interest or other adjustments to reflect the time value of money. For these purposes, any Vested RPSRs or RPSRs that vest and become payable pursuant

to Section 2 or 6 in excess of the target number of RPSRs subject to the award shall be considered to have been granted at the beginning of the Performance Period. Dividend Equivalents (if any) will be paid at the same time as the Vested RPSRs (or the RPSRs that vest and become payable pursuant to Section 2 or 6) to which they relate are paid. Dividend Equivalents will be paid in cash.

## **2. Early Termination of Award; Termination of Employment.**

**2.1 General.** The RPSRs (and related Dividend Equivalents) subject to the award shall terminate and become null and void prior to the conclusion of the Performance Period if and when (a) the award terminates in connection with a Change in Control pursuant to Section 6 below, or (b) except as provided below in this Section 2 and in Section 6, the Grantee ceases for any reason to be an employee of the Company or one of its subsidiaries.

**2.2 Termination of Employment Due to Retirement, Death or Disability.** The number of RPSRs (and related Dividend Equivalents) subject to the award shall vest on a prorated basis as provided herein if the Grantee's employment by the Company and its subsidiaries terminates due to the Grantee's Early Retirement, death, or Disability and, in each case, only if the Grantee has completed at least six (6) consecutive calendar months of employment with the Company or a subsidiary during the three-year Performance Period. Such prorating of RPSRs (and related Dividend Equivalents) shall be based on the number of calendar days the Grantee was actually employed by the Company or one of its subsidiaries over the number of calendar days in the Performance Period (the number of prorated RPSRs, the "Prorated RPSRs"). If the Grantee ceases to be employed by the Company or one of its subsidiaries due to the Grantee's Normal Retirement and such Normal Retirement occurs more than six (6) months after the Grant Date, the RPSRs will vest as if the employee had remained an employee for the full Performance Period. Any RPSRs (and related Dividend Equivalents) subject to the award that do not vest in accordance with this Section 2.2 upon a termination of the Grantee's employment due to Early Retirement or Normal Retirement (collectively "Retirement"), death or Disability shall terminate immediately upon such termination of employment.

**Death or Disability.** In the case of death or Disability (a) the Earnout Percentage of the Grantee's Prorated RPSRs (and related Dividend Equivalents) will be deemed to be 100% (target), regardless of actual performance, and (b) payment of the Prorated RPSRs (and related Dividend Equivalents) that vest pursuant to

this Section 2.2 will be made within 60 days of the Grantee's death or Disability, but in no event later than March 15 of the year following the date of the death or Disability.

**Retirement in General.** Subject to the following provisions of this Section 2.2, in the case of Retirement, the Earnout Percentage will be used to calculate the Grantee's Vested RPSRs, and payment of the Vested RPSRs (and related Dividend Equivalents) will be made in accordance with Section 1.2 above.

In determining the Grantee's eligibility for Retirement, service is measured by dividing (a) the number of days the Grantee was employed by the Company or a subsidiary in the period commencing with his or her last date of hire by the Company or a subsidiary through and including the date on which the Grantee is last employed by the Company or a subsidiary, by (b) 365. If the Grantee ceased to be employed by the Company or a subsidiary and was later rehired by the Company or a subsidiary, the Grantee's service prior to the break in service shall be disregarded in determining service for such purposes; provided that, if the Grantee's employment with the Company or a subsidiary had terminated due to the Grantee's Retirement, or by the Company or a subsidiary as part of a reduction in force (in each case, other than a termination by the Company or a subsidiary for Cause) and, within the two-year period following such termination of employment (the "break in service") the Grantee was subsequently rehired by the Company or a subsidiary, then the Grantee's period of service with the Company or a subsidiary prior to and ending with the break in service will be included in determining service for such purposes. In the event the Grantee is employed by a business that is acquired by the Company or a subsidiary, the Company shall have discretion to determine whether the Grantee's service prior to the acquisition will be included in determining service for such purposes.

**Retirement Due to Government Service.** In the case of a Governmental Service Retirement by the Grantee (a) the Performance Period used to calculate the Grantee's Vested RPSRs will be deemed to have ended as of the most recent date that performance has been measured by the Company with respect to the RPSRs prior to the Grantee's Retirement (but in no event shall such date be more than one year before the Grantee's Retirement), (b) the Earnout Percentage of the Grantee's Prorated RPSRs (and related Dividend Equivalents) will be determined based on actual performance for that short Performance Period, and (c) payment of the Prorated RPSRs that become Vested RPSRs (and Dividend Equivalents thereon) will be made within 20 days after Retirement.



**2.3 Other Terminations of Employment.** Subject to Section 6.2, all RPSRs (and related Dividend Equivalents) subject to the award shall terminate immediately upon a termination of the Grantee's employment: (a) for any reason other than due to the Grantee's Retirement, death or Disability; or (b) for Retirement, death or Disability, if the six-month employment requirement under Section 2.2 above is not satisfied.

**2.4 Leave of Absence.** Unless the Committee otherwise provides (at the time of the leave or otherwise), if the Grantee is granted a leave of absence by the Company, the Grantee (a) shall not be deemed to have incurred a termination of employment at the time such leave commences for purposes of the award, and (b) shall be deemed to be employed by the Company for the duration of such approved leave of absence for purposes of the award. A termination of employment shall be deemed to have occurred if the Grantee does not timely return to active employment upon the expiration of such approved leave or if the Grantee commences a leave that is not approved by the Company.

**2.5 Salary Continuation.** Subject to Section 2.4 above, the term "employment" as used herein means active employment by the Company and salary continuation without active employment (other than a leave of absence approved by the Company that is covered by Section 2.4) will not, in and of itself, constitute "employment" for purposes hereof (in the case of salary continuation without active employment, the Grantee's cessation of active employee status shall, subject to Section 2.4, be deemed to be a termination of "employment" for purposes hereof). Furthermore, salary continuation will not, in and of itself, constitute a leave of absence approved by the Company for purposes of the award.

**2.6 Sale or Spinoff of Subsidiary or Business Unit.** For purposes of the RPSRs (and related Dividend Equivalents) subject to the award, a termination of employment of the Grantee shall be deemed to have occurred if the Grantee is employed by a subsidiary or business unit and that subsidiary or business unit is sold, spun off, or otherwise divested, the Grantee does not otherwise continue to be employed by the Company or one of its subsidiaries after such event, and the divested entity or business (or its successor or a parent company) does not assume the award in connection with such transaction. In the event of such a termination of employment, the termination shall be deemed to be a Retirement treated as provided for in Section 2.2 (subject to Section 6).

**2.7 Continuance of Employment Required.** Except as expressly provided in Section 2.2, Section 2.4

and in Section 6, the vesting of the RPSRs (and related Dividend Equivalents) subject to the award requires continued employment through the last day of the Performance Period as a condition to the vesting of any portion of the award. Employment for only a portion of the Performance Period, even if a substantial portion, will not entitle the Grantee to any proportionate vesting or avoid or mitigate a termination of rights and benefits upon or following a termination of employment. Nothing contained in these Terms, the Grant Letter, the Stock Plan System, or the Plan constitutes an employment commitment by the Company or any subsidiary, affects the Grantee's status (if the Grantee is otherwise an at-will employee) as an employee at will who is subject to termination without cause, confers upon the Grantee any right to continue in the employ of the Company or any subsidiary, or interferes in any way with the right of the Company or of any subsidiary to terminate such employment at any time.

**2.8 Death.** In the event of the Grantee's death subsequent to the vesting of RPSRs but prior to the delivery of shares or other payment with respect to such RPSRs (and related Dividend Equivalents), the Grantee's Successor shall be entitled to any payments to which the Grantee would have been entitled under these Terms with respect to such RPSRs.

### **3. Non-Transferability and Other Restrictions.**

**3.1 Non-Transferability.** The award, as well as the RPSRs (and related Dividend Equivalents) subject to the award, are non-transferable and shall not be subject in any manner to sale, transfer, anticipation, alienation, assignment, pledge, encumbrance or charge. The foregoing transfer restrictions shall not apply to transfers to the Company. Notwithstanding the foregoing, the Company may honor any transfer required pursuant to the terms of a court order in a divorce or similar domestic relations matter to the extent that such transfer does not adversely affect the Company's ability to register the offer and sale of the underlying shares on a Form S-8 Registration Statement and such transfer is otherwise in compliance with all applicable legal, regulatory and listing requirements.

**3.2 Forfeiture or Recoupment of Awards.** If, prior to payment or issuance of shares with respect to the award, Grantee's employment is terminated for Cause (or Grantee has engaged in misconduct that could have resulted in Grantee's termination of employment for Cause if Grantee had remained an employee), the Company may reduce or eliminate any payments or issuances of shares with respect to the award. Further, any payments or issuances of shares with respect to the award are subject to recoupment pursuant to the

Company's Policy Regarding the Recoupment of Certain Performance-Based Compensation Payments as in effect from time to time as well as any recoupment or similar provisions of applicable law, and the Grantee shall promptly make any reimbursement requested by the Board or Committee pursuant to such policy or applicable law with respect to the award. The Grantee agrees, by accepting the award, that the Company and its affiliates may deduct from any amounts it may owe the Grantee from time to time (such as wages or other compensation) to the extent of any amounts the Grantee is required to reimburse the Company pursuant to such policy or applicable law with respect to the award.

#### **4. Post-Employment Conduct.**

**4.1 *Corporate Policy Council Contribution.*** You acknowledge and agree that as a member of the Corporate Policy Council ("CPC"), you are involved in managing the global operations of the Company, incorporated in Delaware and headquartered in Virginia. You are involved in the most sensitive and proprietary matters affecting the Company, its subsidiaries, predecessors, and/or affiliates (collectively, "Northrop Grumman"), including from a technical, strategic and financial perspective, and are widely exposed to confidential, sensitive and proprietary information concerning Northrop Grumman's global operations, at the headquarters and each of the operating sectors, including in the areas of manned and unmanned aircraft, space, C4ISR, cyber, sensors, electronics, through-life support and technical services. Your job responsibilities require that you have a primary office location in Virginia and/or you spend substantial time at the corporate headquarters in Virginia, among other things, attending CPC and other leadership meetings, and managing operations and employees in Virginia. You occupy one of the most senior executive positions in the Company and have far-reaching access to highly confidential, valuable and sensitive information, customer, vendor and employee relationships, intellectual property, strategic and tactical plans, and financial information and plans. The Company has a legitimate business interest in restricting your ability to compete in the specific manner set forth below. The Company has provided you this grant, subject to these Terms and as consideration for the restrictive covenants set forth in this section 4.

**4.2 *Non-Competition.*** For a period of twelve (12) months from the date of the termination of Grantee's employment for any reason (other than a Reduction-in-Force as determined at the Company's sole discretion) ("Termination"), you will not, directly or indirectly, oversee, control, participate in, or support the design, operation, research, manufacture, marketing, sale, or

distribution of "Competitive Products and Services". For the purpose of this section, "Competitive Products and Services" shall mean products or services that compete for resources with or are an alternative or potential alternative to, the products sold or services provided by Northrop Grumman, including without limitation products and services in the areas of manned and unmanned aircraft, space, C4ISR, cyber, sensors, electronics, through-life support and technical services.

**4.3 *Non-Solicitation of Customers.*** For a period of eighteen (18) months from your Termination, you shall not, directly or indirectly, solicit any customer, supplier, or teammate of Northrop Grumman with whom you engaged, or about whom you received confidential, sensitive, or proprietary information, in the course of your employment with Northrop Grumman, for purposes of providing products or services in competition with Northrop Grumman. In the case of a governmental, regulatory or administrative agency, commission, department or other governmental authority, the customer is determined by reference to the specific program offices or activities for which Northrop Grumman provides goods or services.

**4.4 *Non-Solicitation of Employees.*** For a period of twenty-four (24) months from your Termination, you shall not, directly or indirectly, solicit or offer to hire, any person who was, within a period of six months prior to your Termination, employed by Northrop Grumman, with whom you worked or about whom you received information in the course of your employment with Northrop Grumman.

**4.5 *Non-Disparagement.*** You will not issue or communicate any statement, whether verbal or written, or take any other action that disparages or may be interpreted to disparage the Company, its products, services, officers, directors, or employees; provided that the foregoing shall not apply to any truthful statements made in connection with a legal process, including government investigation.

**4.6 *Exceptions.*** You may request an exception to the covenants in Sections 4.2, 4.3, or 4.4 by making a written request to the Company's Chief Human Resources Officer, with such exceptions being considered at the sole discretion of the Company and communicated in writing to you.

**4.7 *Reasonableness.*** You agree that the restrictions set forth in Sections 4.2, 4.3, and 4.4 are (i) reasonable and necessary in all respects, including duration, territory and scope of activity, in order to protect the Company's legitimate business interests, (ii)

that the parties have attempted to limit your right to compete only to the extent necessary to protect the Company's legitimate business interests, and (iii) that you will be able to earn a livelihood without violating the restrictions in this section. It is the intent of the parties that the provisions of this section shall be enforced to the fullest extent permissible under applicable law. However, if any portion of Section 4.2, 4.3, or 4.4 is deemed unenforceable, the parties agree that a court or arbitrator may revise the portion deemed unenforceable to the maximum extent possible to achieve the objective of the parties, and the remainder of the section shall remain in full force and affect.

**4.8 Remedies.** If you violate any provision in Section 4.2, 4.3, 4.4, and/or 4.5 of this section, the Company shall have the right to terminate without payment to you any unvested and/or unpaid RPSRs (and associated Dividend Equivalents) and require that you immediately deliver to the Company an amount in cash equal to the aggregate Fair Market Value, determined as of the vesting and/or payment date of all RPSRs already received, including any Dividend Equivalents, within one year prior to the breach. Further, you acknowledge and agree that a breach of any of the provisions of this section will result in immediate, irreparable, and continuing damage to the Company for which there is no adequate remedy at law, and the Company will be entitled to injunctive relief, a decree of specific performance, and other relief as may be proper, including monetary damages, to the maximum extent available.

**5. Compliance with Laws; No Stockholder Rights Prior to Issuance.**

The Company's obligation to make any payments or issue any shares with respect to the award is subject to full compliance with all then applicable requirements of law, the Securities and Exchange Commission, or other regulatory agencies having jurisdiction over the Company and its shares, and of any exchange upon which stock of the Company may be listed. The Grantee shall not have the rights and privileges of a stockholder, including without limitation the right to vote or receive dividends (except as expressly provided in these Terms with respect to Dividend Equivalents), with respect to any shares which may be issued in respect of the RPSRs until the date appearing on the certificate(s) for such shares (or, in the case of shares entered in book entry form, the date that the shares are actually recorded in such form for the benefit of the Grantee), if such shares become deliverable.

**6. Adjustments; Change in Control.**

**6.1 Adjustments.** The RPSRs and the shares subject to the award are subject to adjustment upon the occurrence of events such as stock splits, stock dividends and other changes in capitalization in accordance with Section 6(a) of the Plan. In addition, for RPSRs that do not use a relative total shareholder return metric as the applicable performance criterion, the applicable performance criteria and goals are subject to adjustment pursuant to Section 8 of the Plan. Any such adjustment or determination not to make any adjustment shall be conclusive and binding.

**6.2 Possible Acceleration on Change in Control.** Notwithstanding the provisions of Section 2 hereof, and further subject to the Company's ability to terminate the award as provided in Section 6.3 below, the Grantee shall be entitled to vesting of the award as provided below in the event of the Grantee's termination of employment if at the time of the termination, the termination occurs either within the Protected Period corresponding to a Change in Control of the Company or within twenty-four (24) calendar months following the date of a Change in Control of the Company, and the Grantee's employment by the Company and its subsidiaries is involuntarily terminated by the Company and its subsidiaries for reasons other than Cause or by the Grantee for Good Reason.

Notwithstanding anything else contained herein to the contrary, the termination of the Grantee's employment (or other events giving rise to Good Reason) shall not entitle the Grantee to any accelerated vesting pursuant to this Section 6.2 if there is objective evidence that, as of the commencement of the Protected Period, the Grantee had specifically been identified by the Company as an employee whose employment would be terminated as part of a corporate restructuring or downsizing program that commenced prior to the Protected Period and such termination of employment was expected at that time to occur within six (6) months.

In the event the Grantee is entitled to payment in accordance with the foregoing provisions of this Section 6.2, then the Grantee will be eligible for payment of a number of RPSRs (and related Dividend Equivalents) determined in accordance with the following formula: (a) the Earnout Percentage determined in accordance with Section 1 but calculated based on performance for the portion of the three-year Performance Period ending on the last day of the month coinciding with or immediately preceding the date of the termination of the Grantee's employment, multiplied by (b) the target number of RPSRs subject to the award. Payment of any amount due under this Section 6.2 will be made within 60 days of the date of the termination of Grantee's

employment, but in no event later than March 15<sup>th</sup> of the year following the Grantee's termination of employment.

**6.3 Automatic Acceleration; Early Termination.** If the Company undergoes a Change in Control triggered by clause (iii) or (iv) of the definition thereof and the Company is not the surviving entity and the successor to the Company (if any) (or a Parent thereof) does not agree in writing prior to the occurrence of the Change in Control to continue and assume the award following the Change in Control, or if for any other reason the award would not continue after the Change in Control, then upon the Change in Control the Grantee shall be entitled to a payment of the RPSRs (and related Dividend Equivalents) as provided below and the award shall terminate. Unless the Committee expressly provides otherwise in the circumstances, no acceleration of vesting of the award shall occur pursuant to this Section 6.3 in connection with a Change in Control if either (a) the Company is the surviving entity, or (b) the successor to the Company (if any) (or a Parent thereof) agrees in writing prior to the Change in Control to assume the award. The Committee may make adjustments pursuant to Section 6(a) of the Plan and/or deem an acceleration of vesting of the award pursuant to this Section 6.3 to occur sufficiently prior to an event if necessary or deemed appropriate to permit the Grantee to realize the benefits intended to be conveyed with respect to the shares underlying the award; provided, however, that, the Committee may reinstate the original terms of the award if the related event does not actually occur.

In the event the Grantee is entitled to a payment in accordance with the foregoing provisions of this Section 6.3, then the Grantee will be eligible for payment of a number of RPSRs (and related Dividend Equivalents) determined in accordance with the following formula: (a) the Earnout Percentage determined in accordance with Section 1 but calculated based on performance for the portion of the three-year Performance Period ending on the date of the Change in Control of the Company, multiplied by (b) the target number of RPSRs subject to the award. Payment of any amount due under this Section 6.3 will be made within 60 days of the Change of Control, but in no event later than March 15 of the year following the Change in Control. In the event the Grantee is employed by the Company or a subsidiary immediately prior to the Change in Control and is entitled to payment in accordance with the foregoing provisions of this Section 6.3, then this Section 6.3 shall control as to the amount and timing of the payment of the award notwithstanding anything in Section 2.2 or 6.2 to the contrary. In the event of the Grantee's Retirement pursuant to Section 2.2 prior to a Change in Control described in the first paragraph of this Section 6.3 in which the award is to be terminated, the Earnout

Percentage shall no longer be based on the portion of the Performance Period otherwise considered for purposes of Section 2.2 but shall instead be calculated based on performance for the portion of the three-year Performance Period ending on the date of the Change in Control of the Company.

## **7. Tax Matters.**

**7.1 Tax Withholding.** The Company or the subsidiary which employs the Grantee shall be entitled to require, as a condition of making any payments or issuing any shares upon vesting of the RPSRs and related Dividend Equivalents, that the Grantee or other person entitled to such shares or other payment pay the minimum sums required to be withheld by federal, state, local or other applicable tax law with respect to such vesting or payment. Alternatively, the Company or such subsidiary, in its discretion, may make such provisions for the withholding of taxes as it deems appropriate (including, without limitation, withholding the taxes due from compensation otherwise payable to the Grantee or reducing the number of shares otherwise deliverable with respect to the award (valued at their then Fair Market Value) by the amount necessary to satisfy such statutory minimum withholding obligations).

**7.2 Transfer Taxes.** The Company will pay all federal and state transfer taxes, if any, and other fees and expenses in connection with the issuance of shares in connection with the vesting of the RPSRs.

**7.3 Compliance.** These Terms are designed to be exempt from Code Section 409A, and the Committee shall administer and construe the award, and may amend the Terms of the award, in such a way as to be exempt from and to avoid adverse tax consequences under Code Section 409A.

**7.4 Unfunded Arrangement.** The right of the Grantee to receive payment under the award shall be an unsecured contractual claim against the Company. As such, neither the Grantee nor any Successor shall have any rights in or against any specific assets of the Company based on the award. Awards shall at all times be considered entirely unfunded for tax purposes.

**7.5 Code Section 280G.** Notwithstanding any other provision of this Agreement to the contrary, in the event that any amounts payable to you as a result of Section 6.2 or 6.3 hereof, either alone or together with amounts payable pursuant to any other plan, program or arrangement (a) constitute "parachute payments" within the meaning of Section 280G of the Code, and (b) but for this Section 7.5 would be subject to the excise tax imposed by Section 4999 of the Code or any comparable successor provisions (the "Excise Tax"), then the vesting

acceleration provided in Section 6.2 or 6.3, as applicable, shall be either (a) provided to you in full, or (b) provided to you to such lesser extent that would result in no portion of the payments so accelerated being subject to the Excise Tax, whichever of the foregoing amounts, when taking into account applicable federal, state, local and foreign income and employment taxes, the Excise Tax, and any other applicable taxes, results in the receipt by you, on an after-tax basis, of the greatest amount of benefits, notwithstanding that all or some portion of such benefits may be subject to the Excise Tax. All determinations required to be made under this Section 7.5 shall be made by a registered public accounting firm selected by the Company, which shall provide supporting calculations both to the Company and you no later than the date of the applicable Change in Control. In the event that the Payments are to be reduced pursuant to this Section 7.5, such Payments shall be reduced such that the reduction of compensation to be provided to the Executive as a result of this Section 7.5 is minimized. In applying this principle, the reduction shall be made in a manner consistent with the requirements of Section 409A and where two economically equivalent amounts are subject to reduction but payable at different times, such amounts shall be reduced on a pro rata basis but not below zero.

**8. Choice of Law; Venue; Arbitration.**

This agreement shall be governed by the laws of the State of Delaware. Any cause of action or claim arising out of or related to the terms and conditions applicable to this grant will be determined through final and binding arbitration, in accordance with Northrop Grumman CTM H200 USHR 2-32, provided that the prevailing party in the arbitration shall be entitled to receive from the losing party reasonably incurred attorneys' fees and costs. You and the Company agree that any arbitration hearing and related proceedings shall be convened and conducted in Falls Church, VA. If you or the Company believes they require immediate relief to enforce or challenge these terms, before arbitration is commenced or concluded, either party may seek injunctive or other provisional equitable relief from a state or federal court in the Commonwealth of Virginia. All court actions or proceedings arising under these terms shall be heard in a state or federal court in the Commonwealth of Virginia. The Company and you hereby agree to the jurisdiction of the state and federal courts in the Commonwealth of Virginia and waive any right to object to such actions on grounds of venue, jurisdiction or convenience.

**9. Committee Authority.**

The Committee has the discretionary authority to determine any questions as to the date when the

Grantee's employment terminated and the cause of such termination and to interpret any provision of these Terms, the Grant Letter, the Stock Plan System, the Plan, and any other applicable rules. Any action taken by, or inaction of, the Committee relating to or pursuant to these Terms, the Grant Letter, the Stock Plan System, the Plan, or any other applicable rules shall be within the absolute discretion of the Committee and shall be conclusive and binding on all persons.

**10. Plan; Amendment.**

The RPSRs (and related Dividend Equivalents) subject to the award are governed by, and the Grantee's rights are subject to, all of the terms and conditions of the Plan and any other rules adopted by the Committee, as the foregoing may be amended from time to time. The Grantee shall have no rights with respect to any amendment of these Terms or the Plan unless such amendment is in writing and signed by a duly authorized officer of the Company. In the event of a conflict between the provisions of the Grant Letter and/or the Stock Plan System and the provisions of these Terms and/or the Plan, the provisions of these Terms and/or the Plan, as applicable, shall control.

**11. Required Holding Period.**

The holding requirements of this Section 11 shall apply to any Grantee who is an elected or appointed officer of the Company on the date any RPSRs are paid (or, if earlier, on the date the Grantee's employment by the Company and its subsidiaries terminates for any reason). Any Grantee subject to this Section 11 shall not be permitted to sell, transfer, anticipate, alienate, assign, pledge, encumber or charge the number of shares equal to 50% of the total payout of Vested RPSRs (net of taxes withheld) until the earlier of (A) the third anniversary of the date such shares of Common Stock are paid to the Grantee, (B) the date the Grantee's employment by the Company and its subsidiaries terminates due to the Grantee's death or Disability, (C) the occurrence of a Change in Control that results in termination and payment under Section 6.2 or 6.3 above, or (D) with respect to Grantee's entering a U.S. federal government position only, the latest of (i) the date the Grantee's employment with the Company terminates, or (ii) the date the Grantee formally accepts the government position in writing, or (iii) the date the government confirms the Grantee (for positions requiring nomination and confirmation). Should the Grantee's employment by the Company and its subsidiaries terminate (regardless of the reason for such termination, but other than due to the Grantee's death or Disability or a Change in Control related termination under Section 6.2 or entering a U.S. federal government position), such holding period requirement shall not apply as to any shares acquired

upon payment of RPSRs to the extent such payment is made more than one year after such termination of employment. (For purposes of clarity, in such circumstances the holding period requirement will apply as to any shares acquired upon payment of RPSRs within one year after such a termination of employment.) For purposes of this Section 11, the total payout of Vested RPSRs shall be determined on a net basis after taking into account any shares otherwise deliverable with respect to the award that the Company withholds to satisfy tax obligations pursuant to Section 7.1. If Grantee is paid less than 50% of the total payout of Vested RPSRs (net of taxes) in shares, then all of the shares received will be subject to the holding period requirements in this Section 11. Any shares of Common Stock received in respect of shares that are covered by the holding period requirements of this Section 11 (such as shares received in respect of a stock split or stock dividend) shall be subject to the same holding period requirements as the shares to which they relate.

## 12. Definitions.

Whenever used in these Terms, the following terms shall have the meanings set forth below and, when the meaning is intended, the initial letter of the word is capitalized:

“**Board**” means the Board of Directors of the Company.

“**Cause**” means the occurrence of either or both of the following:

- (i) The Grantee’s conviction for committing an act of fraud, embezzlement, theft, or other act constituting a felony (other than traffic related offenses, as a result of vicarious liability, or as a result of good faith actions as an officer of the Company); or
- (ii) Willful misconduct by the Grantee that causes financial or reputational harm to the Company. However, no act, or failure to act, on the Grantee’s part shall be considered “willful” unless done, or omitted to be done, by the Grantee not in good faith and without reasonable belief that his or her action or omission was in the best interest of the Company.

“**Change in Control**” is used as defined in the Plan.

“**Code**” means the United States Internal Revenue Code of 1986, as amended.

“**Committee**” means the Company’s Compensation Committee or any successor committee appointed by the Board to administer the Plan.

“**Common Stock**” means the Company’s common stock.

“**Disability**” means, with respect to a Grantee, that the Grantee: (i) is unable to engage in any substantial gainful activity by reason of any medically determinable physical or mental impairment which can be expected to result in death or can be expected to last for a continuous period of not less than twelve months; or (ii) is, by reason of any medically determinable physical or mental impairment which can be expected to result in death or can be expected to last for a continuous period of not less than twelve months, receiving income replacement benefits for a period of not less than three months under an accident and health plan covering employees of the Grantee’s employer.

“**Early Retirement**” means that the Grantee’s employment terminates in any of the following circumstances, and other than a termination of employment that constitutes a Normal Retirement or occurs in connection with a termination by the Company or a subsidiary for Cause:

- (i) a termination of employment after the Grantee has attained age 55 with at least 10 years of service.
- (ii) a termination of employment by the Company or a subsidiary as part of a reduction in force and, at the time of such termination, the Grantee has attained age 53 with at least 10 years of service.
- (iii) a termination of employment by the Company or a subsidiary as part of a reduction in force and, at the time of such termination, the sum of the Grantee’s age and years of service is at least 75.

“**Fair Market Value**” is used as defined in the Plan; provided, however, the Committee in determining such Fair Market Value for purposes of the award may utilize such other exchange, market, or listing as it deems appropriate.

“**Good Reason**” means, without the Grantee’s express written consent, the occurrence of any one or more of the following:

- (i) A material and substantial reduction in the nature or status of the Grantee’s authorities or responsibilities (when such authorities and/or responsibilities are viewed in the aggregate) from their level in effect on the day immediately prior to the start of the Protected Period, other than (A) an inadvertent act that is remedied by the Company promptly after receipt of notice

thereof given by the Grantee, and/or (B) changes in the nature or status of the Grantee's authorities or responsibilities that, in the aggregate, would generally be viewed by a nationally-recognized executive placement firm as resulting in the Grantee having not materially and substantially fewer authorities and responsibilities (taking into consideration the Company's industry) when compared to the authorities and responsibilities applicable to the position held by the Grantee immediately prior to the start of the Protected Period. The Company may retain a nationally-recognized executive placement firm for purposes of making the determination required by the preceding sentence and the written opinion of the firm thus selected shall be conclusive as to this issue.

In addition, if the Grantee is a vice president, the Grantee's loss of vice-president status will constitute "Good Reason"; provided that the loss of the title of "vice president" will not, in and of itself, constitute Good Reason if the Grantee's lack of a vice president title is generally consistent with the manner in which the title of vice president is used within the Grantee's business unit or if the loss of the title is the result of a promotion to a higher level office. For the purposes of the preceding sentence, the Grantee's lack of a vice-president title will only be considered generally consistent with the manner in which such title is used if most persons in the business unit with authorities, duties, and responsibilities comparable to those of the Grantee immediately prior to the commencement of the Protected Period do not have the title of vice-president.

- (ii) A material reduction by the Company in the Grantee's annualized rate of base salary as in effect on the first to occur of the start of the Performance Period or the start of the Protected Period, or as the same shall be increased from time to time.
- (iii) A material reduction in the aggregate value of the Grantee's level of participation in any of the Company's short and/or long-term incentive compensation plans (excluding stock-based incentive compensation plans), employee benefit or retirement plans, or policies, practices, or arrangements in which the Grantee participates immediately prior to the start of the Protected Period provided; however, that a reduction in the aggregate value shall not be deemed to be "Good Reason" if the reduced value remains substantially consistent with the average level of

other employees who have positions commensurate with the position held by the Grantee immediately prior to the start of the Protected Period.

- (iv) A material reduction in the Grantee's aggregate level of participation in the Company's stock-based incentive compensation plans from the level in effect immediately prior to the start of the Protected Period; provided, however, that a reduction in the aggregate level of participation shall not be deemed to be "Good Reason" if the reduced level of participation remains substantially consistent with the average level of participation of other employees who have positions commensurate with the position held by the Grantee immediately prior to the start of the Protected Period.
- (v) The Grantee is informed by the Company that his or her principal place of employment for the Company will be relocated to a location that is greater than fifty (50) miles away from the Grantee's principal place of employment for the Company at the start of the corresponding Protected Period; provided that, if the Company communicates an intended effective date for such relocation, in no event shall Good Reason exist pursuant to this clause (v) more than ninety (90) days before such intended effective date.

The Grantee's right to terminate employment for Good Reason shall not be affected by the Grantee's incapacity due to physical or mental illness. The Grantee's continued employment shall not constitute a consent to, or a waiver of rights with respect to, any circumstances constituting Good Reason herein.

**"Governmental Service Retirement"** means a Retirement by the Grantee where the Grantee accepts a position in the federal government or a state or local government and an accelerated distribution under the award is permitted under Code Section 409A based on such government employment and related ethics rules.

**"Normal Retirement"** means that the Grantee terminates employment after attaining age 65 with at least 10 years of service (other than in connection with a termination by the Company or a subsidiary for Cause). In the case of a Grantee who is an officer of the Company subject to the Company's mandatory retirement at age 65 policy and who, at the applicable time, is not otherwise eligible for Normal Retirement as defined in the preceding sentence, "Normal Retirement" as to that Grantee means that the Grantee's employment is terminated pursuant to such mandatory retirement policy (regardless of the Grantee's years of service and

other than in connection with a termination by the Company or a subsidiary for Cause).

“**Parent**” is used as defined in the Plan.

“**Plan**” means the Northrop Grumman 2011 Long-Term Incentive Stock Plan, as it may be amended from time to time.

The “**Protected Period**” corresponding to a Change in Control of the Company shall be a period of time determined in accordance with the following:

- (i) If the Change in Control is triggered by a tender offer for shares of the Company’s stock or by the offeror’s acquisition of shares pursuant to such a tender offer, the Protected Period shall commence on the date of the initial tender offer and shall continue through and including the date of the Change in Control; provided that in no case will the Protected Period commence earlier than the date that is six (6) months prior to the Change in Control.
- (ii) If the Change in Control is triggered by a merger, consolidation, or reorganization of the Company with or involving any other corporation, the Protected Period shall commence on the date that serious and substantial discussions first take place to effect the merger, consolidation, or reorganization and shall continue through and including the date of the Change in Control; provided that in no case will the Protected Period commence earlier than the date that is six (6) months prior to the Change in Control.
- (iii) In the case of any Change in Control not described in clause (i) or (ii) above, the Protected Period shall commence on the date that is six (6) months prior to the Change in Control and shall continue through and include the date of the Change in Control.

“**Successor**” means the person acquiring a Grantee’s rights to a grant under the Plan by will or by the laws of descent or distribution.



**Severance Plan for  
Elected and Appointed Officers of  
Northrop Grumman Corporation  
As amended and restated effective February 11, 2018**

**1. Purpose of Plan.** The purpose of the Plan is to provide severance benefits for eligible elected and appointed officers of Northrop Grumman Corporation who reside and work in the United States. The terms of this amended and restated Plan are applicable to Qualifying Terminations that occur on or after February 11, 2018.

**2. Definitions.** The terms defined in this section shall have the meaning given below:

- (a) **“Committee”** means the Compensation Committee of the Board of Directors of the Company or any successor to the Committee.
- (b) **“Code”** means the Internal Revenue Code of 1986, as amended.
- (c) **“Company”** means Northrop Grumman Corporation.
- (d) **“CPC”** means the Corporate Policy Council.
- (e) **“Disability”** means any disability of an Officer recognized as a disability for purposes of the Company’s long-term disability plan, or similar plan later adopted by the Company in place of such plan.
- (f) **“Key Employee”** means an employee treated as a “specified employee” as of his Separation from Service under Code section 409A(a)(2)(B)(i) of the Company or its affiliate (i.e., a key employee (as defined in Code section 416(i) without regard to paragraph (5) thereof)) if the Company’s stock is publicly traded on an established securities market or otherwise. The Company shall determine in accordance with a uniform Company policy which Officers are Key Employees as of each December 31 in accordance with IRS regulations or other guidance under Code section 409A, provided that in determining the compensation of individuals for this purpose, the definition of compensation in Treas. Reg. § 1.415(c)-2(d)(3) shall be used. Such determination shall be effective for the twelve (12) month period commencing on April 1 of the following year.
- (g) **“Officer”** means an elected or appointed officer of Northrop Grumman Corporation, other than the Company’s Chief Executive Officer, who resides and works in the United States.
- (h) **“Plan”** means this Severance Plan for Elected and Appointed Officers of Northrop Grumman Corporation, as it may be amended from time to time.
- (i) **“Qualifying Termination”** means any one of the following (i) an Officer’s involuntary termination of employment with the Company, other than Termination for Cause or mandatory retirement, or (ii) an Officer’s election to terminate employment with the Company in lieu of accepting a downgrade to a non-Officer position or status. “Qualifying Termination” does not include any change in the Officer’s employment status due to any transfer within the Company or to an affiliate, or to a purchaser of assets or a portion of the business of the Company or an affiliate in connection with the purchase, Disability, voluntary termination or normal retirement.
- (j) **“Release”** means the Separation Agreement and General Release prepared by the Company at the time of the Officer’s termination of employment, which may include such terms as the Company deems appropriate, including certain post-employment restrictions as a condition of receiving benefits under the Plan.

(k) **“Separation from Service”** or **“Separate from Service”** means a “separation from service” within the meaning of Code section 409A.

(l) **“Termination for Cause”** means an Officer’s termination of employment with the Company because of:

- (i) The continued failure by the Officer to devote reasonable time and effort to the performance of his duties (other than a failure resulting from the Officer’s incapacity due to physical or mental illness) after written demand for improved performance has been delivered to the Officer by the Company which specifically identifies how the Officer has not devoted reasonable time and effort to the performance of his duties;
- (ii) The willful engaging by Officer in misconduct which is substantially injurious to the Company, monetarily or otherwise; or
- (iii) The Officer’s conviction for committing an act of fraud, embezzlement, theft, or other act constituting a felony (other than traffic related offenses or as a result of vicarious liability).

A Termination for Cause shall not include a termination attributable to:

- (i) Bad judgment or negligence on the part of the Officer other than habitual negligence; or
- (ii) An act or omission believed by the Officer in good faith to have been in or not opposed to the best interests of the Company and reasonably believed by the Officer to be lawful.

### 3. Eligibility Requirements.

- (a) Benefits under the Plan are subject to the Company’s sole discretion and approval.
- (b) To be considered to receive benefits under the Plan an Officer must meet the following conditions:
  - (i) The Officer must experience a Qualifying Termination that results in termination of employment. If, before termination of employment occurs due to the Qualifying Termination event, the Officer voluntarily quits, retires, or experiences a Termination for Cause, the Officer will not receive benefits under this Plan.
  - (ii) The Officer must sign the Release.

**4. Severance Benefits.** Upon the Qualifying Termination of any eligible Officer, the terminated Officer shall be entitled to the following benefits under the Plan: (a) a lump-sum severance cash payment, (b) an extension of the Officer’s existing medical and dental coverage, (c) a prorated annual cash bonus payment, and (d) certain other fringe benefits.

- (a) Lump-sum Cash Severance Payment. The designated Appendix describes the lump sum severance benefit available to the Officer.
- (b) Extension of Medical and Dental Benefits. The Company will continue to pay its portion of the Officer’s medical and dental benefits for the period of time following the Officer’s termination date that is specified in the designated Appendix, provided that for the balance of the month that

includes the Officer's termination date and for the immediately following month, the coverage will be at no cost to the Officer. Such continuation coverage shall run concurrently with COBRA continuation coverage (or similar state law). The Officer must continue to pay his portion of the cost of this coverage with after-tax dollars. If rates for active employees increase during this continuation period, the contribution amount will increase proportionately. Also, if medical and dental benefits are modified, terminated or changed in any way for active employees during this continuation period the Officer will also be subject to such modification, termination or change. Following the continuation period specified in the designated Appendix the Officer will be eligible to receive COBRA benefits for any remaining portion of the applicable COBRA period (typically 18 months) at normal COBRA rates. The unreimbursed COBRA period (*e.g.*, the period when the Officer must pay full COBRA rates in order to receive COBRA benefits) starts the first day of the month following the end of the continuation period specified in the designated Appendix.

*Example: A Non-CPC Officer receives a layoff notice on June 5, 2017, and his last day of work is June 19, 2017. The Officer's 18-month COBRA period commences June 20, 2017. The Officer will continue to receive medical and dental coverage from June 20, 2017 through July 31, 2017 at no cost to the Officer. The Officer will continue to receive medical and dental coverage from August 1, 2017 through June 19, 2018, as long as the Officer continues to pay the appropriate active employee contribution. Full COBRA rates will apply to the Officer from June 20, 2018 until the end of the remaining COBRA period on December 19, 2018.*

If the Officer is not covered by medical and dental benefits at the time of his termination, this section 4(b) will not apply and no continuation coverage will be offered. No health or welfare benefits other than medical and dental will be continued pursuant to the Plan, including but not limited to disability benefits.

The medical and dental benefits to be provided or payments to be made under this section 4(b) shall be reduced to the extent that the Officer is eligible for benefits or payments for the same occurrence under another employer sponsored plan to which the Officer is entitled because of his employment subsequent to the Qualifying Termination.

To the extent the benefits under this section 4(b) are, or ever become, taxable to the Officer and to the extent the benefits continue beyond the period in which the Officer would be entitled (or would, but for the Plan, be entitled) to COBRA continuation coverage if the Officer elected such coverage and paid the applicable premiums, the Company shall administer such continuation of coverage consistent with the following additional requirements as set forth in Treas. Reg. § 1.409A-3(i)(1)(iv):

- (i) Officer's eligibility for benefits in one year will not affect Officer's eligibility for benefits in any other year;
- (ii) Any reimbursement of eligible expenses will be made on or before the last day of the year following the year in which the expense was incurred; and
- (iii) Officer's right to benefits is not subject to liquidation or exchange for another benefit.

In the event the preceding sentence applies and the Officer is a Key Employee, provision of these benefits after the COBRA period shall commence on the first day of the seventh month following the Officer's Separation from Service (or, if earlier, the first day of the month after the Officer's death).

- (c) Company Performance Related Payment. The Officer will be eligible for a severance payment equal to a pro-rata portion of the bonus he or she would have received under the Company annual incentive plan in which he or she was a participant for the year in which the Qualifying Termination occurred, in addition to the lump-sum cash severance payment described in section 4(a). For this purpose, the pro-rated bonus (if any) will be based on the applicable annual incentive plan payout formula, with any applicable individual performance factor set at 1.00, prorated from the beginning of the performance period (January 1st) to the Officer's date of termination. The severance payment contemplated by this Section 4(c) will be paid when the annual bonuses are paid to active employees between February 15 and March 15 of the year following termination. Notwithstanding anything to the contrary in this section 4(c), if the Officer's bonus opportunity for the fiscal year in which his or her termination occurs is covered by the Company's Incentive Compensation Plan (or similar successor bonus program designed to comply with the performance-based compensation exception under Section 162(m) of the Code), then the Officer's severance payment pursuant to this section 4(c) shall not exceed the maximum bonus the Officer would have been entitled to receive under the Company's Incentive Compensation Plan for that fiscal year, assuming the Officer had been employed through the date bonuses are paid under such plan for that year, and otherwise calculated under the terms of such plan based on actual performance for that fiscal year (but without giving effect to any discretion of the plan administrator to reduce the bonus amount from the maximum otherwise determined in accordance with such plan).
- (d) Other Fringe Benefits. All reimbursements will be within the limits established in the Executive Perquisite Program. These perquisites will cease as of the date of termination except for the following:
- (i) Financial Planning. If an Officer is eligible for financial planning reimbursement at the time of termination, the Officer will be reimbursed for any financial planning fees as specified in the designated Appendix. For these purposes, "financial planning reimbursement" includes any income tax preparation fee reimbursement the Officer may be entitled to under the financial planning reimbursement terms and conditions applicable to the Officer at the time of termination. The financial planning (including income tax preparation fee) reimbursements contemplated by the Appendices are subject to any other applicable limitations that may apply under the financial planning reimbursement terms and conditions applicable to the Officer at the time of termination (for example, and without limitation, annual caps on amounts that may be used in connection with income tax preparation). All such reimbursements pursuant to this section 4(d)(i) shall be administered consistent with the following additional requirements as set forth in Treas. Reg. § 1.409A-3(i)(1)(iv): (1) Officer's eligibility for benefits in one year will not affect Officer's eligibility for benefits in any other year; (2) any reimbursement of eligible expenses will be made on or before the last day of the year following the year in which the expense was incurred; and (3) Officer's right to benefits is not subject to liquidation or exchange for another benefit. In addition, no reimbursements shall be made to an Officer who is a Key Employee for six months following the Officer's Separation from Service.
- (ii) Outplacement Service. The Officer will be reimbursed for the cost of reasonable outplacement services provided by the Company's outplacement service provider for services provided within one year after the Officer's date of termination; provided, however, that the total reimbursement shall be limited to an amount equal to fifteen percent (15%) of the Officer's base salary as of the date of termination. All services will be subject

to the current contract with the provider, and all such expenses shall be reimbursed as soon as practicable, but in no event later than the end of the year following the year the Officer Separates from Service.

- (e) **Time and Form of Payment.** The severance benefits under section 4(a) will be paid to the eligible Officer in a lump sum as soon as practicable following the Officer's Separation from Service, but in no event beyond thirty (30) days from such date, provided the Officer signs the Release within twenty one (21) days following the Officer's Separation from Service. Notwithstanding the foregoing, if the Officer is a Key Employee, the lump sum payment shall be made on or within thirty (30) days after the first day of the seventh month following the Officer's Separation from Service (or, if earlier, the first day of the month after the Officer's death), provided the Officer signs the Release within twenty-one (21) days following the Officer's Separation from Service. This amount will be paid after all regular taxes and withholdings have been deducted. No payment made pursuant to the Plan is eligible compensation under any of the Company's benefit plans, including without limitation, pension, savings, or deferred compensation plans.

**5. Limitation of Plan Benefits.** Notwithstanding anything contained in this Plan to the contrary, if upon or following a change in the "ownership or effective control" of the Company or in the "ownership of a substantial portion of the assets" of the Company (each within the meaning of Section 280G of the Code), the tax imposed by Section 4999 of the Code or any similar or successor tax (the "Excise Tax") applies, solely because of such transaction, to any payments, benefits and/or amounts received by the Officer pursuant to the Plan or otherwise, including, without limitation, any amounts received, or deemed received within the meaning of any provision of the Code, by the Officer as a result of (and not by way of limitation) any automatic vesting, lapse of restrictions and/or accelerated target or performance achievement provisions, or otherwise, applicable to outstanding grants or awards to the Officer under any of the Company's incentive plans, including without limitation, the 2001 Long-Term Incentive Stock Plan and the 1993 Long Term Incentive Stock Plan (collectively, the "Total Payments"), then the Total Payments shall be reduced (but not below zero) so that the maximum amount of the Total Payments (after reduction) shall be one dollar (\$1.00) less than the amount which would cause the Total Payments to be subject to the Excise Tax; provided that such reduction to the Total Payments shall be made only if the total after-tax benefit to the Officer is greater after giving effect to such reduction than if no such reduction had been made. If such a reduction is required, the Company shall reduce or eliminate the Total Payments by first reducing or eliminating any cash severance benefits, then by reducing or eliminating any accelerated vesting of stock options, then by reducing or eliminating any accelerated vesting of other equity awards, then by reducing or eliminating any other remaining Total Payments, in each case in reverse order beginning with the payments which are to be paid the farthest in time from the date of the transaction triggering the Excise Tax. The preceding provisions of this section 5 shall take precedence over the provisions of any other plan, arrangement or agreement governing the Officer's rights and entitlements to any benefits or compensation.

**6. Offset for Other Benefits Received.** The benefits under the Plan are in lieu of, and not in addition to, any other severance or separation benefits for which the Officer is eligible under any Company plan, policy or arrangements (including but not limited to, severance benefits provided under any employment agreement, retention incentive agreement, or similar benefits under any individual change in control agreements, plans, policies, arrangements and change in control agreements of acquired companies or business units) (collectively, "severance plans"). If an Officer receives any benefit under any severance plan, such benefit shall cause a corresponding reduction in benefits under this Plan. If, despite any release that the Officer signs in connection with the Plan, such Officer is later awarded and receives benefits

under any other severance plan(s), any benefits that the Officer receives under the Plan will be treated as having been received under those other severance plans for purposes of calculating total benefits received under those other severance plans (that is, benefits under those other severance plans will be reduced by amounts received under the Plan).

**7. Administration.** The Plan shall be administered by the Benefit Plans Administrative Committee (the “Plan Administrator”). The Plan Administrator has sole and absolute discretion to interpret the terms of the Plan, eligibility for benefits, and determine questions of fact. The Plan Administrator may delegate any of its duties or authority to any individual or entity.

**8. Claims and Appeals Procedures.**

Claims Procedure. If an Officer believes that he or she is entitled to benefits under the Plan and has not received them, the Officer or his authorized representative (each, a “claimant”) may file a claim for benefits. The Vice President of Compensation and Benefits decides claims for benefits under the Plan. The claimant must submit the written claim to the following address:

Vice President of Compensation and Benefits  
Northrop Grumman Corporation  
2980 Fairview Park Drive  
Falls Church, VA 22042

The letter must state the reason why the claimant believes the Officer is entitled to benefits, and the letter must be received no later than 90 days after the Officer’s termination of employment, or 90 days after a payment was due, whichever comes first.

If the claim is denied, in whole or in part, the claimant will receive a written response within 90 days. This response will include (i) the reason(s) for the denial, (ii) reference(s) to the specific Plan provisions on which denial is based, (iii) a description of any additional information necessary to perfect the claim, and (iv) a description of the Plan’s claims and appeals procedures. In some cases more than 90 days may be needed to make a decision, in which case the claimant will be notified prior to the expiration of the 90 days that more time is needed to review the claim and the date by which the Plan expects to render the decision. In no event will the extension be for more than an additional 90 days.

Appeal of Denied Claim. The claimant may appeal a denied claim by filing an appeal with the Benefit Plans Administrative Committee within 60 days after the claim is denied. The written appeal should be sent to the Benefit Plans Administrative Committee at the following address:

Benefit Plans Administrative Committee  
Northrop Grumman Corporation  
2980 Fairview Park Drive  
Falls Church, VA 22042

As part of the appeal process the claimant will be given the opportunity to submit written comments and information and be provided, upon request and free or charge, with copies of documents and other information relevant to the claim. The review on appeal will take into account all information submitted on appeal, whether or not it was submitted or considered in the initial benefit determination. A decision will be made on the appeal within 60 days, unless additional time is needed. If more time is needed, the claimant will be notified prior to the expiration of the 60 days that up to an additional 60 days is needed and the date by which the Plan expects to render the decision. If the claim is denied, in whole or in part,

on appeal the claimant will receive a written response which will include (i) the reason(s) for the denial, (ii) references to the specific Plan provisions on which the denial is based, (iii) a statement that the claimant is entitled to receive, upon request and free of charge, copies of all documents and other information relevant to the claim on appeal, and (iv) a description of the Plan's claims and appeals procedures.

If the claim is denied on appeal, the Officer has the right to bring an action under Section 502(a) of the Employee Retirement Income Security Act of 1974, as amended. Any claimant must pursue all claims and appeals procedures described in the Plan document before seeking any other legal recourse with respect to Plan benefits. In addition, any lawsuit must be filed within six months from the date of the denied appeal, or two years from the Officer's termination date, whichever occurs first.

In exercising their authority and responsibility for deciding claims and appeals, the Vice President of Compensation and Benefits (claims) and the Benefit Plans Administrative Committee (appeals) each have full discretionary authority, including, without limitation, authority to construe the terms of the Plan and to make factual determinations. Their determinations and actions will be conclusive and binding on all persons, and no determination or action will be modified by a court unless the determination or action is proven to be arbitrary or capricious.

**9. Amendment.** The Company (acting through the Committee) reserves the right at any time to terminate or amend this Plan in any respect and without the consent of any Officer.

**10. Unfunded Obligations.** All benefits due an Officer or the Officer's beneficiary under this Plan are unfunded and unsecured and are payable out of the general funds of the Company. The Company, in its sole and absolute discretion, may establish a trust associated with the payment of Plan benefits, provided that the trust does not alter the characterization of the Plan as an "unfunded plan" for purposes of the Employee Retirement Income Security Act, as amended. Any such trust shall make distributions in accordance with the terms of the Plan.

**11. Transferability of Benefits.** The right to receive payment of any benefits under this Plan shall not be transferred, assigned or pledged except by beneficiary designation or by will or under the laws of descent and distribution.

**12. Taxes.** The Company may withhold from any payment due under this Plan any taxes required to be withheld under applicable federal, state or local tax laws or regulations.

**13. Gender.** The use of masculine pronouns in this Plan shall be deemed to include both males and females.

**14. Construction, Governing Laws.** The Plan is intended as (i) a pension plan within the meaning of Section 3(2) of the Employee Retirement Income Security Act, as amended ("ERISA"), and (ii) an unfunded pension plan maintained by the Company for a select group of management or highly compensated employees within the meaning of Department of Labor Regulation 2520.104-23 promulgated under ERISA, and Sections 201, 301, and 401 of ERISA. Nothing in this Plan creates a vested right to benefits in any employee or any right to be retained in the employ of the Company. Except to the extent that federal legislation or applicable regulation shall govern, the validity and construction of the Plan and each of its provisions shall be subject to and governed by the laws of the Commonwealth of Virginia.



**15. Severability.** If any provision of the Plan is found, held or deemed to be void, unlawful or unenforceable under any applicable statute or other controlling law, the remainder of the Plan shall continue in full force and effect.

IN WITNESS WHEREOF, this Amendment and Restatement is hereby executed by a duly authorized officer on this 27th day of March, 2018.

NORTHROP GRUMMAN CORPORATION

By: /s/ Denise M. Peppard  
Denise M. Peppard  
Corporate Vice President and Chief Human Resources Officer

## Appendix for Corporate Policy Council (CPC) Officers other than the Chief Executive Officer

The following benefits shall apply for purposes of eligible Officers (other than the Company's Chief Executive Officer) who are members of the CPC:

Section 4(a). Lump-sum Cash Severance Payment. The lump sum cash severance payment shall equal one and one half (1.5) times the sum of (A) one year's base salary as in effect on the effective date of the Officer's termination, plus (B) the Officer's target annual bonus established under the Company's annual incentive plan in which he or she was a participant for the fiscal year in which the date of termination occurs. No supplemental bonuses or other bonuses will be combined with the Officer's annual bonus for purposes of this computation.

Section 4(b). Extension of Medical and Dental Benefits. The Company will continue to pay its portion of the Officer's medical and dental benefits for eighteen months following the Officer's termination date.

Section 4(d)(i). Financial Planning. If the Officer is eligible for financial planning reimbursement at the time of termination, the Officer will be reimbursed for any financial planning fees incurred before his termination date. In addition, the Officer will be reimbursed for the following financial planning fees incurred after his termination date: (i) any fees incurred in the year in which the date of termination occurs, provided that the total financial planning reimbursement for such year (including fees incurred before and after the date of termination) shall not exceed \$18,500 and (ii) any fees incurred in the year following the year in which the date of termination occurs, provided that the total financial planning reimbursement for such year shall not exceed \$18,500.

## Appendix for non-CPC Officers

The following benefits shall apply for purposes of eligible Officers who are not members of the CPC:

Section 4(a). Lump-sum Cash Severance Payment. The lump sum cash severance payment shall equal the sum of (A) one year's base salary as in effect on the effective date of the Officer's termination, plus (B) the Officer's target annual bonus established under the Company's annual incentive plan in which he or she was a participant for the fiscal year in which the date of termination occurs. No supplemental bonuses or other bonuses will be combined with the Officer's annual bonus for purposes of this computation.

Section 4(b). Extension of Medical and Dental Benefits. The Company will continue to pay its portion of the Officer's medical and dental benefits for one year following the Officer's termination date.

Section 4(d)(i). Financial Planning. If the Officer is eligible for financial planning reimbursement at the time of termination, the Officer will be reimbursed for any financial planning fees incurred before his termination date. In addition, the Officer will be reimbursed for the following financial planning fees incurred after his termination date: (i) any fees incurred in the year in which the date of termination occurs, provided that the total financial planning reimbursement for such year (including fees incurred before and after the date of termination) shall not exceed \$7,500 and (ii) any fees incurred in the year following the year in which the date of termination occurs, provided that the total financial planning reimbursement for such year shall not exceed \$7,500.

**NORTHROP GRUMMAN CORPORATION**  
**COMPUTATION OF RATIO OF EARNINGS TO FIXED CHARGES**

<i>\$ in millions</i>	Three Months Ended March 31		Year Ended December 31				
<b>Earnings:</b>	<b>2018</b>	2017	2017	2016	2015 <sup>(1)</sup>	2014 <sup>(1)</sup>	2013 <sup>(1)</sup>
Earnings before income taxes	\$ 871	\$ 788	\$ 2,996	\$ 2,855	\$ 2,790	\$ 2,937	\$ 2,863
<b>Fixed Charges:</b>							
Interest expense, including amortization of debt premium	143	75	360	301	301	282	257
Portion of rental expenses on operating leases deemed to be representative of the interest factor	31	30	100	99	101	101	99
Earnings before income taxes and fixed charges	\$ 1,045	\$ 893	\$ 3,456	\$ 3,255	\$ 3,192	\$ 3,320	\$ 3,219
<b>Fixed Charges:</b>	\$ 174	\$ 105	\$ 460	\$ 400	\$ 402	\$ 383	\$ 356
Ratio of earnings to fixed charges	6.0	8.5	7.5	8.1	7.9	8.7	9.0

<sup>(1)</sup> Financial data does not reflect the effects from the January 1, 2018 adoption of Accounting Standards Update No. 2014-09, *Revenue from Contracts with Customers (Topic 606)*.

**LETTER FROM INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

April 24, 2018

Northrop Grumman Corporation  
2980 Fairview Park Drive  
Falls Church, Virginia 22042

We have reviewed, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the unaudited interim financial information of Northrop Grumman Corporation and subsidiaries for the periods ended March 31, 2018, and 2017, as indicated in our report dated April 24, 2018; because we did not perform an audit, we expressed no opinion on that information.

We are aware that our report referred to above, which is included in your Quarterly Report on Form 10-Q for the quarter ended March 31, 2018, is incorporated by reference in Registration Statement Nos. 033-59815, 033-59853, 333-67266, 333-100179, 333-107734, 333-121104, 333-125120, 333-127317, and 333-175798 on Form S-8; and Registration Statement No. 333-217087 on Form S-3.

We also are aware that the aforementioned report, pursuant to Rule 436(c) under the Securities Act of 1933, is not considered a part of the Registration Statement prepared or certified by an accountant or a report prepared or certified by an accountant within the meaning of Sections 7 and 11 of that Act.

/s/ Deloitte & Touche LLP  
McLean, Virginia

**CERTIFICATION PURSUANT TO  
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Wesley G. Bush, certify that:

1. I have reviewed this report on Form 10-Q of Northrop Grumman Corporation (“company”);
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the company's most recent fiscal quarter (the company's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
5. The company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: April 24, 2018

/s/ **Wesley G. Bush**

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Wesley G. Bush  
Chairman and Chief Executive Officer

**CERTIFICATION PURSUANT TO  
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Kenneth L. Bedingfield, certify that:

1. I have reviewed this report on Form 10-Q of Northrop Grumman Corporation (“company”);
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the company's most recent fiscal quarter (the company's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
5. The company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: April 24, 2018

/s/ **Kenneth L. Bedingfield**

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Kenneth L. Bedingfield  
Corporate Vice President and Chief Financial Officer

**CERTIFICATION PURSUANT TO  
18 U.S.C. SECTION 1350,  
AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of Northrop Grumman Corporation (the “company”) on Form 10-Q for the period ended March 31, 2018, as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I, Wesley G. Bush, Chairman and Chief Executive Officer of the company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the company.

Date: April 24, 2018

**/s/ Wesley G. Bush**

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Wesley G. Bush

Chairman and Chief Executive Officer



**CERTIFICATION PURSUANT TO  
18 U.S.C. SECTION 1350,  
AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of Northrop Grumman Corporation (the “company”) on Form 10-Q for the period ended March 31, 2018, as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I, Kenneth L. Bedingfield, Corporate Vice President and Chief Financial Officer of the company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the company.

Date: April 24, 2018

**/s/ Kenneth L. Bedingfield**

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Kenneth L. Bedingfield

Corporate Vice President and Chief Financial Officer