

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2024 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024	
A	This return/report is for: ☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must provide participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____
B	This return/report is: ☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C	If the plan is a collectively-bargained plan, check here.▶ ☒
D	Check box if filing under: ☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)
E	If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.▶ ☐

Part II	Basic Plan Information—enter all requested information
1a	Name of plan NG ES UNION REPRESENTED EMPLOYEES PENSION PLAN
1b	Three-digit plan number (PN) ▶ 045
1c	Effective date of plan 01/01/1999
2a	Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) NORTHROP GRUMMAN CORPORATION 2980 FAIRVIEW PARK DRIVE FALLS CHURCH, VA 22042-4511
2b	Employer Identification Number (EIN) 80-0640649
2c	Plan Sponsor's telephone number 703-280-2900
2d	Business code (see instructions) 336410

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/07/2025	JEFF SCHMIDT-CORP VP, TOTAL REWARDS
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a Plan administrator's name and address ☐ Same as Plan Sponsor NG BENEFIT PLANS ADMINISTRATIVE COMMITTEE 2980 FAIRVIEW PARK DRIVE FALLS CHURCH, VA 22042-4511	3b Administrator's EIN 95-3058633																																																																																																														
	3c Administrator's telephone number 800-894-4194																																																																																																														
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN 4d PN																																																																																																														
5 Total number of participants at the beginning of the plan year	5 2900																																																																																																														
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....	<table border="1" style="width:100%; border-collapse: collapse;"><tr><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td></tr><tr><td>6a(1)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>867</td></tr><tr><td>6a(2)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>801</td></tr><tr><td>6b</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1545</td></tr><tr><td>6c</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>229</td></tr><tr><td>6d</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2575</td></tr><tr><td>6e</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>280</td></tr><tr><td>6f</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2855</td></tr><tr><td>6g(1)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6g(2)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6h</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td></tr></table>											6a(1)									867	6a(2)									801	6b									1545	6c									229	6d									2575	6e									280	6f									2855	6g(1)										6g(2)										6h									0
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7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7																																																																																																														

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

1A 1C 1I

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:

9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor
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10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

- (1) ☒ **R** (Retirement Plan Information)
- (2) ☐ **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3) ☒ **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary
- (4) ☐ **DCG** (Individual Plan Information) – Number Attached _____
- (5) ☐ **MEP** (Multiple-Employer Retirement Plan Information)

b General Schedules

- (1) ☒ **H** (Financial Information)
- (2) ☐ **I** (Financial Information – Small Plan)
- (3) ☐ **A** (Insurance Information) – Number Attached _____
- (4) ☒ **C** (Service Provider Information)
- (5) ☒ **D** (DFE/Participating Plan Information)
- (6) ☐ **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2024 Form M-1 annual report. If the plan was not required to file the 2024 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024	
▶ Round off amounts to nearest dollar.	
▶ Caution: A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.	
A Name of plan NG ES UNION REPRESENTED EMPLOYEES PENSION PLAN	B Three-digit plan number (PN) ▶ 045
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF NORTHROP GRUMMAN CORPORATION	D Employer Identification Number (EIN) 80-0640649
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information			
1	Enter the valuation date: Month 01 Day 01 Year 2024			
2	Assets:			
a	Market value	2a	640520322	
b	Actuarial value	2b	667297813	
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a	For retired participants and beneficiaries receiving payment	1768	381521584	381521584
b	For terminated vested participants	265	22722585	22722585
c	For active participants	867	202023293	203559917
d	Total	2900	606267462	607804086
4	If the plan is in at-risk status, check the box and complete lines (a) and (b). ☐			
a	Funding target disregarding prescribed at-risk assumptions	4a		
b	Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b		
5	Effective interest rate	5	5.13 %	
6	Target normal cost			
a	Present value of current plan year accruals	6a	7233563	
b	Expected plan-related expenses	6b	2000000	
c	Target normal cost	6c	9233563	

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	Signature of actuary THOMAS R. SUPPLE Type or print name of actuary WILLIS TOWERS WATSON US LLC Firm name 300 SOUTH GRAND AVENUE, STE 2000 LOS ANGELES, CA 90071 Address of the firm	Date 23-05740 Most recent enrollment number 213-337-6000 Telephone number (including area code)
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Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	35588134
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)		35588134
10 Interest on line 9 using prior year's actual return of <u>12.88</u> %		4583752
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		0
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.24</u> %		
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance		0
d Portion of (c) to be added to prefunding balance		0
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	40171886

Part III Funding Percentages

14 Funding target attainment percentage	14	103.17 %
15 Adjusted funding target attainment percentage	15	109.78 %
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	105.60 %
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
02/02/2024		57004	05/10/2024		53253
02/16/2024		56468	04/26/2024		54025
03/01/2024		56063	06/07/2024		51718
03/15/2024		54983	05/24/2024		52220
03/28/2024		54320	06/21/2024		52268
04/12/2024		53090	07/10/2024		52781
Totals ▶			18(b)		18(c) 1384904

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	0

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No

b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No

c If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)		
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)		
9 Amount remaining (line 7 minus line 8)		
10 Interest on line 9 using prior year's actual return of _____ %		
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of _____ %		
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		
c Total available at beginning of current plan year to add to prefunding balance		
d Portion of (c) to be added to prefunding balance		
12 Other reductions in balances due to elections or deemed elections		
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)		

Part III Funding Percentages

14 Funding target attainment percentage	14	%
15 Adjusted funding target attainment percentage	15	%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
07/19/2024		50936	09/27/2024		53124
08/02/2024		52427	11/08/2024		53286
08/16/2024		52159	10/25/2024		52848
08/30/2024		52700	12/06/2024		51668
09/13/2024		52349	11/22/2024		54202
10/11/2024		54225	12/20/2024		52740
Totals ▶			18(b)		18(c)

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	
b Contributions made to avoid restrictions adjusted to valuation date	19b	
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year?	☐ Yes ☐ No		
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	☐ Yes ☐ No		
c If line 20a is "Yes," see instructions and complete the following table as applicable:			
Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)		
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)		
9 Amount remaining (line 7 minus line 8)		
10 Interest on line 9 using prior year's actual return of _____%		
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of _____%		
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		
c Total available at beginning of current plan year to add to prefunding balance		
d Portion of (c) to be added to prefunding balance		
12 Other reductions in balances due to elections or deemed elections		
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)		

Part III Funding Percentages

14 Funding target attainment percentage	14	%
15 Adjusted funding target attainment percentage	15	%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
08/09/2024		48378			
01/19/2024		55669			
Totals ►			18(b)		18(c)

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	
b Contributions made to avoid restrictions adjusted to valuation date	19b	
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year?	☐ Yes ☐ No		
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	☐ Yes ☐ No		
c If line 20a is "Yes," see instructions and complete the following table as applicable:			
Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V	Assumptions Used to Determine Funding Target and Target Normal Cost
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21 Discount rate:			
a Segment rates:	1st segment: 4.75 %	2nd segment: 4.87 %	3rd segment: 5.59 %
			☐ N/A, full yield curve used
b Applicable month (enter code)			21b 4
22 Weighted average retirement age			22 64
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute			

Part VI	Miscellaneous Items
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24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.....		☒ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.....		☐ Yes ☒ No
26 Demographic and benefit information		
a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.		☒ Yes ☐ No
b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...		☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....		27

Part VII	Reconciliation of Unpaid Minimum Required Contributions For Prior Years
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28 Unpaid minimum required contributions for all prior years	28	
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29).....	30	0

Part VIII	Minimum Required Contribution For Current Year
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31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6c)		31a	9233563
b Excess assets, if applicable, but not greater than line 31a		31b	9233563
32 Amortization installments:		Outstanding Balance	Installment
a Net shortfall amortization installment		0	0
b Waiver amortization installment		0	0
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount		33	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....		34	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0
36 Additional cash requirement (line 34 minus line 35)		36	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)		37	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)		38a	0
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances		38b	0
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)		39	0
40 Unpaid minimum required contributions for all years		40	0

Part IX	Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)
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41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☐ 2019 ☐ 2020 ☒ 2021
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SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2024
		This Form is Open to Public Inspection.

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024		
A Name of plan NG ES UNION REPRESENTED EMPLOYEES PENSION PLAN	B Three-digit plan number (PN) ▶	045
C Plan sponsor's name as shown on line 2a of Form 5500 NORTHROP GRUMMAN CORPORATION	D Employer Identification Number (EIN) 80-0640649	

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

- a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions).. ☐ Yes ☒ No
- b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
--

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--

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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

FIDELITY INVESTMENTS INSTITUTIONAL

04-2647786

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 50	RECORDKEEPER	143156	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

DELOITTE & TOUCHE LLP

13-3891517

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
10 50	AUDITOR	90609	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

WILLIS TOWERS WATSON DELAWARE INC.

53-0181291

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
11 17 50	ACTUARY	61192	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

STATE STREET BANK AND TRUST COMPANY

04-1867445

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
25 28 50 99	TRUSTEE	24396	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

ROPES & GRAY LLP

04-2233412

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
29 50	LEGAL COUNSEL	12480	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

CITRIN COOPERMAN ADVISORS LLC

87-2525370

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
10 50	FORM 5500 PREP	7808	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

CALLAN ASSOCIATES

94-2192581

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
34 50	CONSULTANT	7095	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

FUTURE TECH ENTERPRISE INC

11-3350196

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
49	OTHER SERVICES	6558	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE D (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2024 This Form is Open to Public Inspection.
For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024		
A Name of plan NG ES UNION REPRESENTED EMPLOYEES PENSION PLAN		B Three-digit plan number (PN) ▶ 045
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 NORTHROP GRUMMAN CORPORATION		D Employer Identification Number (EIN) 80-0640649
Part I Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)		
a Name of MTIA, CCT, PSA, or 103-12 IE: NG DB MT EQUITY FD		
b Name of sponsor of entity listed in (a): NORTHROP GRUMMAN CORPORATION		
c EIN-PN 13-6692740-001	d Entity code M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 0
a Name of MTIA, CCT, PSA, or 103-12 IE: NG DB MT NON-US EQUITY FD		
b Name of sponsor of entity listed in (a): NORTHROP GRUMMAN CORPORATION		
c EIN-PN 13-6692740-015	d Entity code M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 0
a Name of MTIA, CCT, PSA, or 103-12 IE: NG DB MT ALTERNATIVE INVESTMENT FD		
b Name of sponsor of entity listed in (a): NORTHROP GRUMMAN CORPORATION		
c EIN-PN 13-6692740-007	d Entity code M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 140955707
a Name of MTIA, CCT, PSA, or 103-12 IE: NG DB MT FIXED INCOME FD		
b Name of sponsor of entity listed in (a): NORTHROP GRUMMAN CORPORATION		
c EIN-PN 13-6692740-008	d Entity code M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 251340617
a Name of MTIA, CCT, PSA, or 103-12 IE: NG DB MT MONEY MARKET FD		
b Name of sponsor of entity listed in (a): NORTHROP GRUMMAN CORPORATION		
c EIN-PN 13-6692740-012	d Entity code M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 12567031
a Name of MTIA, CCT, PSA, or 103-12 IE: NG DB MT GLOBAL EQUITY FD		
b Name of sponsor of entity listed in (a): NORTHROP GRUMMAN CORPORATION		
c EIN-PN 13-6692740-016	d Entity code M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 189932671
a Name of MTIA, CCT, PSA, or 103-12 IE: NG DB MT PRIVATE CREDIT FD		
b Name of sponsor of entity listed in (a): NORTHROP GRUMMAN CORPORATION		
c EIN-PN 13-6692740-021	d Entity code M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 37080312
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule D (Form 5500) 2024 v. 240311		

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)

Part II Information on Participating Plans (to be completed by DFEs, other than DCGs)

(Complete as many entries as needed to report all participating plans. DCGs must report each participating plan using Schedule DCG.)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2024 This Form is Open to Public Inspection
	For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024	
	A Name of plan NG ES UNION REPRESENTED EMPLOYEES PENSION PLAN	B Three-digit plan number (PN) 045
C Plan sponsor's name as shown on line 2a of Form 5500 NORTHROP GRUMMAN CORPORATION	D Employer Identification Number (EIN) 80-0640649	

Part I	Asset and Liability Statement		
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions	1b(1)		
(2) Participant contributions.....	1b(2)		
(3) Other	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)		
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property)	1c(6)		
(7) Loans (other than to participants)	1c(7)		
(8) Participant loans	1c(8)		
(9) Value of interest in common/collective trusts	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts	1c(11)	635879581	631876338
(12) Value of interest in 103-12 investment entities	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds)	1c(13)		
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
(15) Other.....	1c(15)		

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)		
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	635879581	631876338
Liabilities			
g Benefit claims payable	1g		
h Operating payables	1h	391349	356606
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	391349	356606
Net Assets			
l Net assets (subtract line 1k from line 1f)	1l	635488232	631519732

Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)		
(B) Participants	2a(1)(B)	1384904	
(C) Others (including rollovers)	2a(1)(C)		
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B), (C), and line 2a(2)	2a(3)		1384904
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)		
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)		
(D) Total dividends. Add lines 2b(2)(A) , (B), and (C)	2b(2)(D)		
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		36094774
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		
c Other income	2c		
d Total income. Add all income amounts in column (b) and enter total	2d		37479678

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	40654087	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		40654087
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses:			
(1) Salaries and allowances	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Recordkeeping fees	2i(3)	142592	
(4) IQPA audit fees	2i(4)	98417	
(5) Investment advisory and investment management fees	2i(5)		
(6) Bank or trust company trustee/custodial fees	2i(6)	17969	
(7) Actuarial fees	2i(7)	95929	
(8) Legal fees	2i(8)	13134	
(9) Valuation/appraisal fees	2i(9)		
(10) Other trustee fees and expenses	2i(10)		
(11) Other expenses	2i(11)	426050	
(12) Total administrative expenses. Add lines 2i(1) through (11)	2i(12)		794091
j Total expenses. Add all expense amounts in column (b) and enter total	2j		41448178

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		-3968500
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☒ Unmodified (2) ☐ Qualified (3) ☐ Disclaimer (4) ☐ Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) ☐ DOL Regulation 2520.103-8 (2) ☐ DOL Regulation 2520.103-12(d) (3) ☒ neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: **DELOITTE & TOUCHE LLP**

(2) EIN: **13-3891517**

d The opinion of an independent qualified public accountant is **not attached** as part of Schedule H because:

(1) ☐ This form is filed for a CCT, PSA, DCG or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l. DCGs do not complete lines 4e, 4f, 4k, 4l, and 5, and DCGs generally complete the rest of Part IV collectively for all plans in the DCG, except as otherwise provided (see instructions).

During the plan year:

	Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)		☒	
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)		☒	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		☒	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)		☒	
e Was this plan covered by a fidelity bond?	☒		100000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		☒	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		☒	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		☒	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)		☒	
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)		☒	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		☒	
l Has the plan failed to provide any benefit when due under the plan?		☒	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☒ Yes ☐ No ☐ Not determined

If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 551945.

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation		Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.		OMB No. 1210-0110 2024 This Form is Open to Public Inspection.	
For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024					
A Name of plan NG ES UNION REPRESENTED EMPLOYEES PENSION PLAN				B Three-digit plan number (PN) ▶ 045	
C Plan sponsor's name as shown on line 2a of Form 5500 NORTHROP GRUMMAN CORPORATION				D Employer Identification Number (EIN) 80-0640649	
Part I Distributions					
All references to distributions relate only to payments of benefits during the plan year.					
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....				1 0	
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 04-2647786					
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.					
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year				3 6	
Part II Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)					
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☒ No ☐ N/A If the plan is a defined benefit plan, go to line 8.					
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.					
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)				6a	
b Enter the amount contributed by the employer to the plan for this plan year				6b	
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....				6c	
If you completed line 6c, skip lines 8 and 9.					
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A					
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☒ N/A					
Part III Amendments					
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box..... ☐ Increase ☐ Decrease ☐ Both ☒ No					
Part IV ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.					
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? ☐ Yes ☐ No					
11 a Does the ESOP hold any preferred stock? ☐ Yes ☐ No					
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.) ☐ Yes ☐ No					
12 Does the ESOP hold any stock that is not readily tradable on an established securities market? ☐ Yes ☐ No					
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.				Schedule R (Form 5500) 2024 v. 240311	

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. Complete as many entries as needed to report all applicable employers.

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

14 Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for: a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment)..... b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)..... c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment).....	14a 14b 14c	
15 Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:		
a The corresponding number for the plan year immediately preceding the current plan year	15a	
b The corresponding number for the second preceding plan year	15b	
16 Information with respect to any employers who withdrew from the plan during the preceding plan year:		
a Enter the number of employers who withdrew during the preceding plan year	16a	
b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	16b	
17 If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐		

Part VI	Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans
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18 If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐	
19 If the total number of participants is 1,000 or more, complete lines (a) and (b): a Enter the percentage of plan assets held as: Public Equity: <u>28.6</u> % Private Equity: <u>11.3</u> % Investment-Grade Debt and Interest Rate Hedging Assets: <u>38.9</u> % High-Yield Debt: <u>1.1</u> % Real Assets: <u>6.1</u> % Cash or Cash Equivalents: <u>2.1</u> % Other: <u>11.9</u> % b Provide the average duration of the Investment-Grade Debt and Interest Rate Hedging Assets: ☐ 0-5 years ☐ 5-10 years ☒ 10-15 years ☐ 15 years or more	
20 PBGC missed contribution reporting requirements. If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20. a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☒ No b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box: ☐ Yes. ☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date. ☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date. ☐ No. Other. Provide explanation: _____	

Part VII	IRS Compliance Questions
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21a Does the plan satisfy the coverage and nondiscrimination tests of Code sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules? ☐ Yes ☒ No 21b If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2). ☐ Design-based safe harbor method ☐ "Prior year" ADP test ☐ "Current year" ADP test ☐ N/A 22 If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter ____/____/____ (MM/DD/YYYY) and the Opinion Letter serial number _____.	
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Northrop Grumman Electronic Systems Union Represented Employees Pension Plan

Employer ID No: 80-0640649
Plan Number: 045

Financial Statements as of and for the
Years Ended December 31, 2024 and 2023, and
Independent Auditor's Report

**NORTHROP GRUMMAN ELECTRONIC SYSTEMS UNION REPRESENTED
EMPLOYEES PENSION PLAN**

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INDEPENDENT AUDITOR'S REPORT

To the Plan Administrator of
Northrop Grumman Electronic Systems Union Represented Employees Pension Plan:

Opinion

We have audited the financial statements of Northrop Grumman Electronic Systems Union Represented Employees Pension Plan (the "Plan"), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), which comprise the statements of net assets available for pension benefits as of December 31, 2024 and 2023, and the related statements of changes in net assets available for pension benefits for the years then ended, and the statement of accumulated plan benefits as of December 31, 2023, and the related statement of changes in accumulated plan benefits for the year then ended, and the related notes to the financial statements.

In our opinion, the accompanying financial statements present fairly, in all material respects, the net assets available for pension benefits of the Plan as of December 31, 2024 and 2023, and the changes in its net assets available for pension benefits for the years then ended, and the accumulated plan benefits as of December 31, 2023, and the changes in its accumulated plan benefits for the year then ended, in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for one year after the date that the financial statements are available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments, administering the Plan, and determining that the Plan's transactions that are presented and disclosed in the financial statements are in conformity with the Plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

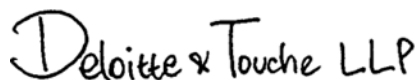
Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Deloitte & Touche LLP

October 3, 2025

**NORTHROP GRUMMAN ELECTRONIC SYSTEMS UNION REPRESENTED
EMPLOYEES PENSION PLAN
STATEMENTS OF NET ASSETS AVAILABLE FOR PENSION BENEFITS**

<i>\$ in thousands</i>	December 31	
	2024	2023
Assets:		
Plan interest in Northrop Grumman Pension Master Trust, at fair value	\$ 631,876	\$ 635,880
Total assets	631,876	635,880
Liabilities: Accrued expenses	357	391
Net assets available for pension benefits	\$ 631,519	\$ 635,489

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

**NORTHROP GRUMMAN ELECTRONIC SYSTEMS UNION REPRESENTED
EMPLOYEES PENSION PLAN**

STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR PENSION BENEFITS

<i>\$ in thousands</i>	Year Ended December 31	
	2024	2023
Additions:		
Investment income — Plan interest in the Northrop Grumman Pension Master Trust	\$ 36,093	\$ 72,736
Employee contributions	1,385	1,480
Net additions	37,478	74,216
Deductions:		
Benefits paid to participants	40,654	38,401
Administrative expenses	794	1,149
Total deductions	41,448	39,550
(Decrease)/increase in net assets	(3,970)	34,666
Net assets available for pension benefits		
Beginning of year	635,489	600,823
End of year	\$ 631,519	\$ 635,489

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

**NORTHROP GRUMMAN ELECTRONIC SYSTEMS UNION REPRESENTED
EMPLOYEES PENSION PLAN**

STATEMENT OF ACCUMULATED PLAN BENEFITS

<i>\$ in thousands</i>	December 31, 2023
Actuarial present value of accumulated plan benefits	
Vested benefits	
Participants currently receiving payments	\$ 337,958
Other participants	183,079
Total vested benefits	521,037
Nonvested benefits	1,382
Total actuarial present value of accumulated plan benefits	\$ 522,419

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

**NORTHROP GRUMMAN ELECTRONIC SYSTEMS UNION REPRESENTED
EMPLOYEES PENSION PLAN**

STATEMENT OF CHANGES IN ACCUMULATED PLAN BENEFITS

<i>\$ in thousands</i>	Year Ended December 31, 2023
Actuarial present value of accumulated plan benefits — Beginning of year	\$ 510,220
Increase (decrease) during the year attributable to:	
Interest	34,918
Benefits paid	(38,401)
Benefits accumulated	7,472
Actuarial losses	4,686
Changes in actuarial assumptions	3,524
Net increase	12,199
Actuarial present value of accumulated plan benefits — End of year	\$ 522,419

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

NORTHROP GRUMMAN ELECTRONIC SYSTEMS UNION REPRESENTED EMPLOYEES PENSION PLAN

NOTES TO FINANCIAL STATEMENTS

1. DESCRIPTION OF THE PLAN

The following description of the Northrop Grumman Electronic Systems Union Represented Employees Pension Plan (the “Plan”) provides only general information. Participants should refer to the Plan document for a more complete description of the Plan’s provisions.

General

The Plan is a defined benefit pension plan sponsored by Northrop Grumman Corporation (the “Company” or “Plan Sponsor”). The Plan was established on January 1, 1999 as the successor to the represented employee portion of the Northrop Grumman Electronic Sensors & Systems Division Pension Plan (“ESSD Plan”), which was the successor to the Westinghouse Pension Plan. The Plan's Benefit Plans Administrative and Investment Committees control and manage the operation of the Plan. State Street Bank and Trust Company (the “Trustee”) serves as the Trustee of the Plan. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”).

The Plan holds an interest in the Northrop Grumman Pension Master Trust (the “Pension Master Trust”).

Eligibility

All former union-represented participants in the Westinghouse Pension Plan as of February 29, 1996, who became union-represented participants in the ESSD Pension Plan as of March 1, 1996, and all subsequent union-represented employees of the Electronic Systems Sector of the Company, who are covered under a collective bargaining agreement that provides for participation in the Plan, are covered by the Plan. Effective January 1, 2010 or January 1, 2013, depending on the union, the Plan was closed to most new hires.

Pension Benefits

Depending on the applicable union, eligible Plan participants accrue benefits under traditional, cash balance or flat rate formulas based on age, years of service and eligible compensation, and certain participants transitioned from the traditional formula to the cash balance or flat rate formula. The cash balance formula is a percentage of eligible pay credited to a hypothetical account, which grows with interest. The pay credit is a percentage of eligible compensation that varies based on an employee’s “points” (age plus service). At retirement, the hypothetical account balance is converted to a monthly pension benefit. Certain participants previously accrued a benefit under a non-cash balance formula. As defined by the Plan, eligible Plan participants are entitled to pension benefits upon retirement. Participants may elect one of several retirement options. Under current Plan provisions, in general, normal retirement benefits may commence on the later of (1) the participant’s attainment of age 65 or (2) the earlier of the participant's satisfaction of the applicable service or participation requirements as specified in the Plan document.

Benefits are payable in the form of a joint and survivor annuity, a single life annuity, or other options as defined in the Plan document. Furthermore, certain participants may elect to make a rollover distribution into the Northrop Grumman Savings Plan in accordance with the Plan document.

Employee Contributions

Under the traditional sub-plan, before December 31, 2011, the contribution percentage for most eligible employees was 2.0 percent of eligible pay, which was increased to 3.5 percent, effective January 1, 2012. Under the flat rate sub-plan, the contribution percentage for eligible employees is 1.5 percent. Applicable interest rates are applied to employee contributions on an annual basis.

2. SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The accompanying financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (“GAAP”).

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities and changes therein, as well as the actuarial present value of accumulated plan benefits. Actual results could materially differ from those estimates.

Risks and Uncertainties

The Plan holds an interest in the Pension Master Trust which invests in various investment securities (Note 3). Investment securities are exposed to various risks, including interest rate and credit risk, overall market volatility, market risks including global events such as pandemics or international conflicts, and risks related to U.S. and foreign government instability. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities may occur in the near term, and those changes could materially affect the amounts reported in the financial statements. The Pension Master Trust has no individual investments that account for greater than 10 percent of net assets.

Plan contributions are made, and the actuarial present value of accumulated plan benefits are reported, based on assumptions pertaining to interest rates, inflation rates, and employee demographics. Due to uncertainties inherent in the assumptions used in the estimating process, it is reasonably possible that changes in these estimates and assumptions in the near term could materially affect the amounts reported in the financial statements.

Investment Valuation and Income Recognition

The investments held by the Pension Master Trust are reported at fair value as determined by the Trustee pursuant to the Pension Master Trust agreement. Plan management provides direction and oversight of the valuation process. The fair value of a financial instrument is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Pension Master Trust investments are valued as described below. See Note 5 for the Pension Master Trust's derivative financial instrument disclosures.

Cash equivalents primarily represent interest-bearing foreign cash that is valued at cost, which approximates fair value. The short-term investment funds are private funds managed by third-party managers with the investment objectives of liquidity and preservation of principal. The funds are valued based on the redemption price of shares/units, which is based on the current fair value of the underlying net assets. Investments in certain equity securities are valued at the last reported sales price of the stock on the active market in which the investments are traded on the last business day of the year or based on the quoted market prices that represent the net asset value ("NAV") of shares held by the Pension Master Trust at year-end. Fair values for certain equity and fixed-income investments, which are not exchange-traded, are valued using quoted prices in inactive markets or quoted prices for similar instruments, model-derived valuations or third-party pricing services. The third-party pricing services use, for example, recent broker-dealer quotations or model-based pricing methods that use significant observable inputs such as relevant yield curves, credit information of the underlying investment, prepayment projections, cash flows and other investment characteristics, to determine fair value as of the last trading day of the year. If market values are not available from the above sources, the fair value is provided to the Trustee by the party with authority to trade in such investments (investment managers or Plan management, as applicable). Fair values for certain equity funds, fixed-income funds and alternative investments funds, including hedge funds, opportunistic investments funds, private equity funds, real estate funds and private credit funds, are valued based on the NAV as a practical expedient are derived by investment managers.

Over-the-counter financial derivative instruments derive their value from underlying asset prices, indices, reference rates and other inputs or a combination of these factors. These contracts are normally valued on the basis of broker-dealer information or pricing service providers. Depending on the product and the terms of the transaction, the value of the derivative contracts can be estimated by a pricing service provider using a series of techniques, including simulation pricing models. The pricing models use inputs observed from actively quoted markets such as issuer details, indices, spreads, interest rates, curves, dividends and exchange rates. Derivatives that use similar valuation techniques and inputs as described above are categorized as Level 2 of the fair value hierarchy. Exchange-traded derivatives are valued based off of the last reported price on the active market on which they trade and are categorized as Level 1 of the fair value hierarchy.

Purchases and sales of investments are recorded on a trade-date basis. Interest income is recorded on an accrual basis and dividends are recorded on the ex-dividend date. Broker commissions, transfer taxes, investment manager fees and other charges and expenses incurred in connection with the purchase, sale, or disposition of investments are added to the cost of such investments, or are deducted from the proceeds of the sale or disposition thereof, as

appropriate. Currency gains and losses from international equity sales and foreign exchange settlements are reflected in investment income.

In performing valuations or calculations required of the Trustee, the Trustee relies on prices provided by pricing sources, investment managers and/or Plan management for certification as to the value.

The Pension Master Trust allocates investment income, including realized gains and losses and unrealized appreciation and depreciation on the underlying securities to the participating plans based upon the market value of each participating plan's investment. The realized gain or loss on investments is the difference between the proceeds received and the average cost of investments sold. The unrealized appreciation or depreciation amount is the aggregate difference between the current fair market value and the average cost of investments.

Fair Value of Financial Instruments

The Pension Master Trust measures the fair value of its financial instruments using observable and unobservable inputs. Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect internal market assumptions. Assets are classified in their entirety based on the lowest level of input that is significant to the fair value measurement.

These two types of inputs create the following fair value hierarchy:

Level 1 — Quoted prices for identical instruments in active markets. Level 1 investments of the Pension Master Trust primarily include cash equivalents, exchange-traded derivatives, and U.S. and international equities, which primarily include common and preferred stocks, real estate investment trusts, and registered investment companies.

Level 2 — Quoted prices for similar instruments in active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations whose inputs are observable or whose significant value drivers are observable. Level 2 investments of the Pension Master Trust primarily include fixed-income securities based on broker quotes or model-derived valuations and short-term investment funds.

Level 3 — Significant inputs to the valuation model are unobservable.

Expenses

Plan expenses are paid by either the Plan or the Plan Sponsor, as provided in the Plan document.

Payment of Benefits

Benefit payments to participants are recorded upon distribution.

3. INVESTMENTS

The Pension Master Trust investments are stated at fair values determined and reported by the Trustee in accordance with the Pension Master Trust agreement established by the Company.

The Plan's proportionate interest represents 2.1 percent and 2.0 percent of total net assets of the Pension Master Trust as reported by the Trustee as of December 31, 2024 and 2023, respectively.

The net assets of the Pension Master Trust and the Plan's interest in Master Trust balances as of December 31, 2024 and 2023, are as follows:

<i>\$ in thousands</i>	Master Trust Balances		Plan's Interest in Master Trust Balances	
	2024	2023	2024	2023
Assets				
Cash equivalents and short-term investment funds	\$ 918,446	\$ 834,563	\$ 18,061	\$ 17,010
U.S. and international equities	3,223,400	3,093,032	70,243	82,085
Fixed-income securities				
U.S. and non-U.S. government	2,279,849	2,729,766	47,859	54,341
Corporate debt	3,381,675	4,303,133	61,085	75,450
Asset-backed	1,301,284	435,625	27,317	8,672
High yield debt	19,436	19,875	408	396
Bank loans	16,138	14,978	339	298
Other assets	33,339	33,857	—	10
Derivatives	(8,807)	69,525	(185)	1,384
Assets on loan to third-party borrowers	1,865,104	1,513,136	38,364	29,933
Collateral held under securities lending agreements	1,909,513	1,555,557	39,277	30,772
Investments valued using NAV as a practical expedient				
U.S. and international equities funds	5,556,701	5,265,627	121,165	131,675
Fixed-income funds	3,534,258	4,010,961	70,434	76,614
Hedge funds	28,144	33,654	589	611
Opportunistic investments funds	1,816,315	3,190,134	38,020	57,952
Private equity funds	3,524,929	3,435,488	73,708	61,868
Real estate funds	1,854,196	2,114,724	38,772	38,083
Private credit funds	1,793,100	—	37,077	—
Total investments	33,047,020	32,653,635	682,533	667,154
Dividends, interest, and taxes receivable	117,828	111,793	2,434	2,288
Receivables from broker for securities sold	205,478	155,650	4,245	3,186
Other receivables	292	1,049	6	21
Total assets	33,370,618	32,922,127	689,218	672,649
Liabilities				
Collateral held under securities lending agreements	1,909,513	1,555,557	39,277	30,772
Due to brokers for securities purchased	862,195	288,813	17,976	5,883
Other liabilities	4,291	4,771	89	114
Total liabilities	2,775,999	1,849,141	57,342	36,769
Net assets of the Pension Master Trust	\$30,594,619	\$31,072,986	\$ 631,876	\$ 635,880

Net investment income for the Pension Master Trust for the years ended December 31, 2024 and 2023, is as follows:

<i>\$ in thousands</i>	2024	2023
Investment income/(loss)		
Net appreciation of investments	\$ 1,082,009	\$ 2,904,552
Interest	430,712	406,568
Dividends	97,617	107,587
Other (loss)/income	(40)	768
Investment manager fees	(122,961)	(105,495)
Net investment income	\$ 1,487,337	\$ 3,313,980

4. FAIR VALUE MEASUREMENTS

The tables below set forth the fair value hierarchy of the investments, measured on a recurring basis and held by the Pension Master Trust as of December 31, 2024 and 2023:

<i>\$ in thousands</i>	2024			
	Level 1	Level 2	Level 3	Total
Cash equivalents and short-term investment funds	\$ 139,591	\$ 778,855	\$ —	\$ 918,446
U.S. and international equities	3,270,989	410	—	3,271,399
Fixed-income securities				
U.S. and non-U.S. government	—	3,814,577	—	3,814,577
Corporate debt	—	3,663,973	—	3,663,973
Asset-backed	—	1,301,284	—	1,301,284
High yield debt	—	19,515	—	19,515
Bank loans	—	16,138	—	16,138
Other assets	—	33,339	—	33,339
Derivatives	(54,054)	45,247	—	(8,807)
Collateral held under securities lending agreements	—	1,909,513	—	1,909,513
Investments valued using NAV as a practical expedient				18,107,643
Total Pension Master Trust at fair value	\$ 3,356,526	\$ 11,582,851	\$ —	\$ 33,047,020

<i>\$ in thousands</i>	2023			
	Level 1	Level 2	Level 3	Total
Cash equivalents and short-term investment fund	\$ 4,146	\$ 830,417	\$ —	\$ 834,563
U.S. and international equities	3,109,065	911	—	3,109,976
Fixed-income securities				
U.S. and non-U.S. government	—	4,095,108	—	4,095,108
Corporate debt	—	4,433,983	—	4,433,983
Asset-backed	—	435,625	—	435,625
High yield debt	—	19,875	—	19,875
Bank loans	—	14,978	—	14,978
Other assets	—	33,857	—	33,857
Derivatives	62,168	7,357	—	69,525
Collateral held under securities lending agreements	—	1,555,557	—	1,555,557
Investments valued using NAV as a practical expedient				18,050,588
Total Pension Master Trust at fair value	\$ 3,175,379	\$ 11,427,668	\$ —	\$ 32,653,635

Certain investments that are measured at fair value using NAV per share (or its equivalent) as a practical expedient are not required to be categorized in the fair value hierarchy tables. The total fair value of these investments is included in the tables above to permit reconciliation of the fair value hierarchy to amounts presented in the investments footnote (Note 3). As of December 31, 2024 and 2023, there were no investments expected to be sold at a value materially different than NAV.

Investments in certain equity and fixed-income funds, which include common/collective trust funds, and alternative investments, including hedge funds, opportunistic investments funds, private equity funds, real estate funds and private credit funds, are valued based on NAV derived by the investment managers, as a practical expedient, and are described further below.

U.S. and International Equities Funds

A subset of the funds in this asset class are structured as limited partnerships funds. Redemption periods are generally daily, monthly or quarterly with a notice requirement less than 90 days. As of December 31, 2024 and 2023, funds in this category with redemption periods longer than one year and with monthly or quarterly notice requirements totaled approximately \$1.8 billion and \$1.7 billion, respectively. As of December 31, 2024 and 2023, there were no unfunded commitments.

Fixed-Income Funds

A subset of this asset class consists of high yield fixed income investments which include a commingled fund. Redemption periods are generally daily, monthly or quarterly with a notice requirement of two days. As of December 31, 2024 and 2023, there were no unfunded commitments.

Hedge Funds

Hedge funds consist of closed-end funds with a 5-10 year life as well as funds that allow redemption requests subject to the liquidity limitations of the underlying investments. As of December 31, 2024 and 2023, unfunded commitments were \$5.5 million.

Opportunistic Investments Funds

Opportunistic investments funds consist of closed-end funds with a 5-10 year life as well as funds that allow redemption requests subject to the liquidity limitations of the underlying investments. As of December 31, 2024 and 2023, unfunded commitments were \$1.3 billion and \$1.6 billion, respectively.

Private Equity Funds

This asset class consists primarily of closed-end private equity funds, which invest across various fund types, including fund of funds, venture capital, buyouts, distressed and mezzanine debt. The term of each fund is typically 10 or more years and the fund's investors do not have an option to redeem their interest in the fund. The assets in this class have been diversified across vintage years, industry sectors and geographic regions. As of December 31, 2024 and 2023, unfunded commitments were \$1.6 billion and \$1.9 billion, respectively.

Real Estate Funds

This asset class consists primarily of open-end funds that generally allow investors to redeem their interests in the fund. A minor portion of the asset class is in closed-end real estate funds and infrastructure funds with terms that are typically 10 or more years. As of December 31, 2024 and 2023, there were open-end funds totaling approximately \$1.8 billion and \$2.2 billion, respectively, that permit investors to formally request redemptions. As of December 31, 2024 and 2023, unfunded commitments were \$24 million and \$28 million, respectively.

Private Credit Funds

This asset class consists of closed-end funds with a 5-10 year life as well as funds that allow redemption requests subject to the liquidity limitations of the underlying investments. As of December 31, 2024, unfunded commitments were \$0.7 billion.

5. DERIVATIVE FINANCIAL INSTRUMENTS

Derivative financial instruments may be used by the investment managers of the Pension Master Trust as part of their respective investment strategies. Derivative instruments may include exchange-traded futures contracts, interest rate swaps, options on futures and swaps, currency contracts, index futures, total return swaps and credit default swaps. Notional amounts do not quantify risk or represent assets or liabilities of the Pension Master Trust but are used in the calculation of cash settlements under the contracts.

Derivative financial instruments are recorded as assets or liabilities of the Pension Master Trust and measured at fair value. During 2024 and 2023, derivative financial instruments were not entered into for hedging purposes and therefore do not qualify for hedge accounting. The volume of derivative activity is commensurate with the amounts disclosed at year-end. The notional amounts and fair values, by primary risk exposure, are presented as gross assets and liabilities as follows:

December 31, 2024				
<i>\$ in thousands</i>	Notional Amounts ⁽¹⁾	Fair Value Asset	Fair Value (Liability)	Fair Value Net
Interest rate contracts	\$ 7,761,791	\$ 51,510	\$ (90,138)	\$ (38,628)
Currency contracts ⁽²⁾	—	2,678	(1,179)	1,499
Equity contracts	583	3	(8)	(5)
Credit default swaps	1,382,185	29,156	(829)	28,327
Total	\$ 9,144,559	\$ 83,347	\$ (92,154)	\$ (8,807)

December 31, 2023				
<i>\$ in thousands</i>	Notional Amounts ⁽¹⁾	Fair Value Asset	Fair Value (Liability)	Fair Value Net
Interest rate contracts	\$ 4,728,021	\$ 154,784	\$ (88,538)	\$ 66,246
Currency contracts ⁽²⁾	—	1,213	(1,282)	(69)
Equity contracts	518	3	(2)	1
Credit default swaps	154,468	3,389	(42)	3,347
Total	\$ 4,883,007	\$ 159,389	\$ (89,864)	\$ 69,525

⁽¹⁾ Gross collateral under master netting agreements is not offset in the notional amounts presented above.

⁽²⁾ The majority of the notional value of currency contracts is related to options and forwards. Currency contracts include 103 and 41 forward contracts as of December 31, 2024 and 2023, respectively.

Gains/(losses) on derivative instruments in the Pension Master Trust for the years ended December 31, 2024 and 2023, are as follows:

<i>\$ in thousands</i>	2024	2023
Interest rate contracts	\$ (120,416)	\$ 21,618
Currency contracts	\$ 905	\$ (5,067)
Equity contracts	\$ 49	\$ 18,063
Credit default swaps	\$ 1,757	\$ 3,890

The related net gains and losses on derivatives are included in investment income for the Pension Master Trust, as a component of net appreciation/(depreciation) of investments (Note 3).

For each of the derivative instruments discussed below, the credit risk associated with these contracts is minimal, as they are entered into with a limited number of highly-rated counterparties or clearing organizations.

Interest Rate Contracts

The Pension Master Trust enters into futures contracts in the normal course of investing activities to manage market risk and to achieve overall investment portfolio objectives. These contracts involve elements of market risk in excess of amounts recognized in the statements of net assets available for benefits. These contracts are traded on organized exchanges, settled daily, and have terms which typically do not exceed one year. In the normal course of its investing activities, the Pension Master Trust also enters into interest rate contracts and option contracts on futures and swaps to manage the interest rate exposure associated with fixed-income securities. Notional amounts related to the futures and options contracts in the table above are stated at a net buy (sell) position.

Currency Contracts

The Pension Master Trust enters into currency contracts, primarily consisting of Eurodollar futures and forward contracts, in the normal course of investing activities to manage the exposure to currency risk associated with changes in market value due to the change in foreign currency exchange rates.

Equity Contracts

Equity contracts include total return swaps and index futures. The Pension Master Trust enters into total return swaps in the normal course of investing activities to manage the exposure to changes in the value of the underlying assets. The Pension Master Trust gains exposure to the underlying assets without having to purchase the assets outright.

Credit Default Swaps

The Pension Master Trust enters into credit default swap contracts in the normal course of investing activities to manage the exposure to credit risk by either reducing risk exposure to a default of corporate and sovereign issuers, or to increase exposure to corporate and sovereign issuers to which it is not otherwise exposed.

Master Netting Agreements

In addition to the securities lending program described in Note 6, certain derivative financial instruments within the Pension Master Trust are subject to Master Netting Agreements (“MNAs”) with certain counterparties. MNAs govern the terms of certain transactions and reduce the counterparty risk associated with relevant transactions by specifying offsetting mechanisms and collateral posting arrangements at pre-determined exposure levels. MNAs are specific to each asset type. Therefore, they allow the company to close out and net its total exposure to a specified counterparty in the event of a default with respect to the transactions governed under a single agreement with the counterparty.

The following is a summary of the gross derivative fair value of the Pension Master Trust's exposure to derivative assets and liabilities with certain counterparties, summarized by investment manager, available for offset and net of collateral under MNAs at December 31, 2024 and 2023. The net amounts of derivative assets and liabilities shown below are included in the Plan interest in Pension Master Trust on the Statements of Net Assets Available for Pension Benefits.

\$ in thousands

Derivative Assets, Net as of December 31, 2024

Counterparty	Gross Amounts of Recognized Assets	Gross Amounts Offset in the Statements of Net Assets Available for Pension Benefits	Net Amounts of Assets Presented in the Statements of Net Assets Available for Pension Benefits	Cash Collateral Received	Net Amount
Counterparty A	\$ 210	\$ —	\$ 210	\$ —	\$ 210
Counterparty B	3,142	(504)	2,638	(580)	2,058
Derivatives subject to MNAs	3,352	(504)	2,848	(580)	2,268
Derivatives not subject to MNAs	80,499	—	80,499	—	80,499
Total fair value	\$ 83,851	\$ (504)	\$ 83,347	\$ (580)	\$ 82,767

\$ in thousands

Derivative Liabilities, Net as of December 31, 2024

Counterparty	Gross Amounts of Recognized Liabilities	Gross Amounts Offset in the Statements of Net Assets Available for Pension Benefits	Net Amounts of Liabilities Presented in the Statements of Net Assets Available for Pension Benefits	Cash Collateral Pledged	Net Amount
Counterparty A	\$ (71)	\$ —	\$ (71)	\$ —	\$ (71)
Counterparty B	(1,487)	504	(983)	52	(931)
Derivatives subject to MNAs	(1,558)	504	(1,054)	52	(1,002)
Derivatives not subject to MNAs	(91,100)	—	(91,100)	—	(91,100)
Total fair value	\$ (92,658)	\$ 504	\$ (92,154)	\$ 52	\$ (92,102)
Net fair value	\$ (8,807)	\$ —	\$ (8,807)	\$ (528)	\$ (9,335)

\$ in thousands

Derivative Assets, Net as of December 31, 2023

Counterparty	Gross Amounts of Recognized Assets	Gross Amounts Offset in the Statements of Net Assets Available for Pension Benefits	Net Amounts of Assets Presented in the Statements of Net Assets Available for Pension Benefits	Cash Collateral Received	Net Amount
Counterparty A	\$ 42	\$ (37)	\$ 5	\$ —	\$ 5
Counterparty B	3,444	(546)	2,898	(2,156)	742
Derivatives subject to MNAs	3,486	(583)	2,903	(2,156)	747
Derivatives not subject to MNAs	156,486	—	156,486	—	156,486
Total fair value	\$ 159,972	\$ (583)	\$ 159,389	\$ (2,156)	\$ 157,233

\$ in thousands

Derivative Liabilities, Net as of December 31, 2023

Counterparty	Gross Amounts of Recognized Liabilities	Gross Amounts Offset in the Statements of Net Assets Available for Pension Benefits	Net Amounts of Liabilities Presented in the Statements of Net Assets Available for Pension Benefits	Cash Collateral Pledged	Net Amount
Counterparty A	\$ (183)	\$ 37	\$ (146)	\$ —	\$ (146)
Counterparty B	(1,557)	546	(1,011)	300	(711)
Derivatives subject to MNAs	(1,740)	583	(1,157)	300	(857)
Derivatives not subject to MNAs	(88,707)	—	(88,707)	—	(88,707)
Total fair value	\$ (90,447)	\$ 583	\$ (89,864)	\$ 300	\$ (89,564)
Net fair value	\$ 69,525	\$ —	\$ 69,525	\$ (1,856)	\$ 67,669

6. THIRD PARTY BORROWINGS

The Pension Master Trust participates in a securities lending program with the Trustee (“lending agent”). The program allows the lending agent to loan securities held by the Pension Master Trust to approved borrowers. Such assets could be subject to sale restrictions in the event security lending agreements are terminated and the securities have not been returned to the Pension Master Trust. The lending agent requires borrowers, pursuant to a security loan agreement, to deliver collateral to secure each loan. The collateral required is 102 percent of the fair value of U.S. securities borrowed and 105 percent for foreign securities borrowed. The Pension Master Trust bears the risk of loss with respect to the unfavorable change in fair value of the invested cash collateral. However, the borrower bears the risk of loss related to the decrease in the fair value of the securities collateral and, therefore, may have to deliver additional cash or securities to maintain the required collateral. In U.S. markets, the lending agent generally enters into a netting arrangement with a borrower, which permits the netting of mark-to-market exposure for transactions within the lending program with that borrower. Such arrangements would cover lending transactions with the borrower and reverse repurchase agreements of cash collateral involving investment of the collateral. The lending agent may also negotiate a right of offset in the event of borrower default. In the event of borrower default, the lending agent indemnifies the Pension Master Trust against any loss of the amount loaned. As of December 31, 2024, cash and non-cash collateral associated with securities on loan totaled approximately \$1.6 billion and \$0.3 billion, respectively. As of December 31, 2023, cash and non-cash collateral associated with securities on loan totaled approximately \$1.5 billion and \$12.6 million, respectively. All collateral is presented as Level 2 in the fair value hierarchy as it is held by the lending agent and not readily available for trading.

Pension Master Trust assets on loan to third-party borrowers under securities lending agreements as of December 31, 2024 and 2023 are as follows:

<i>\$ in thousands</i>	2024	2023
U.S. equities	\$ 37,182	\$ 10,860
International equities	10,817	6,084
Fixed-income securities		
U.S. and non-U.S. government	1,534,728	1,365,342
Corporate debt	282,298	130,850
High yield debt	79	—
Pension Master Trust assets on loan to third-party borrowers	\$ 1,865,104	\$ 1,513,136

7. ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS

Accumulated plan benefits are those future periodic payments, including lump-sum distributions, under the Plan's provisions attributable to service rendered by employees as of the valuation date. Accumulated plan benefits include benefits expected to be paid to (1) retired or terminated employees or their beneficiaries, (2) beneficiaries of employees who have died, and (3) present employees or their beneficiaries.

The actuarial present value of accumulated plan benefits is calculated by Willis Towers Watson, the Plan's independent enrolled actuary, and is the amount that results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements, such as for death, disability, withdrawal or retirement) between the valuation date and the expected date of payment.

The actuarial present value of accumulated plan benefits presented in the accompanying financial statements is presented using the beginning of the year benefit information date. The actuarial present value of accumulated plan benefits information is measured as of January 1, 2024, which is a proxy for December 31, 2023. The effect of Plan amendments on accumulated plan benefits is recognized during the year in which such amendments are adopted. There were no amendments effective January 1 recognized in the actuarial present value of accumulated plan benefits. Had the valuations been performed as of December 31, there would be no material differences.

Significant assumptions used in the valuations as of December 31, 2023 and 2022, are as follows:

	2023	2022
Discount rate on actuarial present value of accumulated plan benefits	7.0% per annum, compounded annually	7.0% per annum, compounded annually
Cash balance crediting rate	4.02% for all years.	3.96% and decreasing by 0.02% per year until reaching an ultimate rate of 3.88% in 2027.
Mortality table for participants	Benefit weighted PRI-2012 White Collar Mortality Tables generationally projected using Scale MP-2021 with 50% of Society of Actuaries' gradual phase-in factors with generational projection.	Benefit weighted PRI-2012 White Collar Mortality Tables generationally projected using Scale MP-2021 with 50% of Society of Actuaries' gradual wear-off factors for 2023 through 2029 with generational projection.
Assumed weighted average retirement age	64	64

These assumptions include provisions for early retirement and employee turnover. The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated plan benefits.

8. FUNDING POLICY

The Company uses the Plan's independent enrolled actuary to determine the amounts to be contributed each year to the Plan. The Plan's minimum funding requirements of ERISA were met for the years ended December 31, 2024 and 2023.

The Plan's funding policy takes into consideration both current liability, an actuarial present value of accumulated plan benefits with discount rates as determined by law, and the Actuarial Accrued Liability ("AAL") in order to calculate both the minimum contribution required by ERISA and the maximum deductible contribution for Company tax purposes. AAL is measured using an actuarial cost method qualified by the Internal Revenue Service ("IRS"), and a discount rate determined in consultation with our Plan actuary.

The minimum annual contribution for a given year is the sum of (1) the normal cost for that year and (2) an amount sufficient to amortize the unfunded actuarial liability over a specified period. Contributions are subject to a full funding limit prescribed by law.

9. PLAN TERMINATION

Although it has not expressed any intention to do so, the Company has the right under the Plan provisions to discontinue its contributions at any time and to terminate the Plan subject to the provisions set forth in ERISA. In the event of the Plan's termination, the net assets of the Plan will be allocated for payment of plan benefits to the participants in an order of priority determined in accordance with ERISA, applicable regulations thereunder, and the Plan document. No assets of the Plan may revert to the Company until all benefit liabilities of the Plan have been satisfied.

Certain benefits under the Plan are insured by the Pension Benefit Guaranty Corporation ("PBGC") if the Plan terminates. Generally, the PBGC guarantees most vested normal retirement age benefits, early retirement benefits, and certain disability and survivor's pensions. However, the PBGC does not guarantee all types of benefits under the Plan, and the amount of benefit protection is subject to certain limitations. Vested benefits under the Plan are guaranteed at the level in effect on the date of the Plan's termination.

Whether all participants receive their full benefits should the Plan terminate at some future time will depend on the sufficiency, at that date, of the Plan's net assets to provide for accumulated benefit obligations and may also depend on the financial condition of the Plan Sponsor and the level of benefits guaranteed by the PBGC.

10. EXEMPT PARTY-IN-INTEREST TRANSACTIONS

The Pension Master Trust utilizes various investment managers to manage its net assets. These net assets may be invested into funds or separate accounts managed by the investment managers. Therefore, these transactions qualify as exempt party-in-interest transactions. In Plan management's opinion, fees paid during the years ended December 31, 2024 and 2023, for services rendered by parties-in-interest were based upon customary and reasonable rates for such services.

11. FEDERAL INCOME TAX STATUS

The Plan obtained its latest determination letter dated December 9, 2020, in which the IRS determined that the Plan's terms at the time of the determination letter application were in compliance with applicable sections of the Code and, therefore, is exempt from taxation. In December 2016, the IRS began publishing a Required Amendments List for individually designed plans which specifies changes in qualification requirements. The list is published annually and requires plans to be amended for each item on the list, as applicable, to retain its tax exempt status. GAAP requires Plan management to evaluate tax positions taken by the Plan and recognizes a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the applicable authorities. The Plan is subject to routine audits by taxing jurisdictions. However, there are no audits for any tax periods in progress. Plan management believes the Plan and the Pension Master Trust are currently designed and operating in compliance with the applicable requirements of the Code. Therefore, no provision for income taxes has been included in the Plan's financial statements.

12. SUBSEQUENT EVENTS

In preparing the financial statements for the year ended December 31, 2024, subsequent events were evaluated through October 3, 2025, the date the financial statements were available to be issued. No events occurred that require additional disclosure or adjustments to the statements of net assets available for benefits, benefit obligations or changes thereof.

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V Summary of Plan Provisions

Plan Provisions

The plan was originally effective March 1, 1996. The plan document was restated effective July 1, 2020.

Coverage and Participation Union Represented employees, with the exception of certain employees represented by labor organizations specifically excluded from this plan or special assignment employees or leased employees as defined by the plan.

Participation starts from date of becoming a covered employee, or election date to make contributions, if later. Participation starts from date of hire for Cash Balance participants. Participation in the plan is closed to all covered employees hired after 2012.

Definitions

Vesting service One year for each calendar year in which the participant is credited with 1,000 vesting hours

Point service Years and days of service as a covered employee, including service as a leased employee

Credited service Years and days of service as a contributing participant. Credited service is increased by one month for each month a participant earns a credit hour or is classified as a covered employee on Northrop Grumman's payroll files; service counts from date of hire (no contributions are required for benefit or service accrual in the ES Rep Cash Balance plan).

Pensionable pay W-2 earnings, not including certain deferred compensation, and 50% of an annual incentive award if paid to a highly compensated employee.

Normal retirement date (NRD) First of month coinciding with or next following the attainment of age 65 with three years of vesting service

Plan Name: NG ES Union Represented Employees Pension Plan
EIN / PN: 80-0640649/045
Plan Sponsor: Northrop Grumman Corporation
Valuation Date: January 1, 2024

SCHEDULE SB ATTACHMENTS

Monthly pension benefit

For employees hired on or before December 31, 2004:

Monthly Benefit Formula:

The greater of (1), (2), and (3):

- (1) Monthly career accumulation for service prior to December 31, 1994, plus 1/12 of 2% of compensation for each year of benefit service thereafter during which the employee has an election to contribute in effect.
- (2) Monthly flat rate benefit of \$34 for each year of benefit service in which the employee has an election to contribute in effect.
- (3) The monthly annuity purchased with the employee's contributions with interest.

Participants who are disabled or on leave of absence

No employee contributions are required while on approved leave.

Benefit is the greater of (1), (2), and (3):

- (1) Monthly career accumulation for service prior to December 31, 1994, plus 1/12 of 1.5% of compensation in effect on the date of leave for each year of benefit service after the later of 12/31/94 or date of leave during which the employee would have earned benefit service had he not been on leave.
- (2) Monthly flat rate benefit of \$34 for each year of benefit service in which the employee has an election to contribute in effect, including any period of disability or leave of absence.
- (3) The monthly annuity purchased with the employee's contributions with interest.

Effective January 1, 2010, benefits earned by Kings Bay represented employees are determined under the Modified Cash Balance Plan with the "factor of 9". See the section on benefits for employees hired on or after January 1, 2005 for a complete description of these benefits.

IUE represented employees hired prior to January 1, 2005 will convert to the Modified Cash Balance Pension Plan effective January 1, 2010 with the "factor of 9". There will be a 5-year transition period in which these participants will receive the greater of the accrual under the prior career average benefit formula or the cash balance accrual.

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For those with a pre-1995 benefit, the present value of the lump sum benefit based on the pre-1995 annuity benefit will be determined as of December 31, 2009 and used as a minimum lump sum benefit for post January 1, 2010 retirements.

At retirement the lump sum for their pre-1995 benefits will be the greater of the actual lump sum calculated at retirement or the minimum lump sum benefit as of December 31, 2009. Employee contributions for these participants will cease on January 1, 2010.

For employees hired on or after January 1, 2005:

Benefits will be accrued under a cash balance formula.

- (1) January 1, 2005 and beyond, a Benefit Credit Account is established for each participant under the Cash Balance Plan. The Account is credited monthly with Benefit Credits based on Benefit Points and Interest Credits.
- (2) Benefit Points: the participant's age plus Credited Service calculated at the first day of each month.
- (3) Benefit Credits: made on the last day of a calendar month based on the Cash Balance Eligible Pay received in the month and the number of Benefit Points on the first day of the month according to the tables below. Prior to January 1, 2010 the benefit earned is determined under Standard specific rules:

Benefit Points	Benefit Credit (as Percentage of Total Pay)	Benefit Credit (as Percentage of Pay Over Social Security Wage Base)
Less than 25	4.5%	4.5%
25-34	5.0%	4.5%
35-44	5.5%	4.5%
45-54	6.0%	4.5%
55-64	6.5%	4.5%
65-74	7.0%	4.5%
75-84	7.5%	4.5%
85 or more	8.0%	4.5%

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Effective January 1, 2010, benefits earned for all IBEW, SEA, IUE, Kings Bay and Hagerstown represented employees hired before December 31, 2009 are determined under Modified Standard specific rules.

Benefit Points	Benefit Credit (as Percentage of Total Pay)	Benefit Credit (as Percentage of Pay Over Social Security Wage Base)
Less than 25	3.5%	4.0%
25-34	4.0%	4.0%
35-44	4.5%	4.0%
45-54	5.0%	4.0%
55-64	5.5%	4.0%
65-74	6.5%	4.0%
75-84	7.5%	4.0%
85 or more	9.0%	4.0%

- (1) Interest is credited monthly and is equal to the Rate of Monthly Interest Credits times the balance in the Account as of the first day of the month. The Rate of Monthly Interest Credits is the average annual rate of interest on 30-year Treasury Securities for the preceding fourth month, subject to a minimum of 2.25%, divided by 12.
- (2) The benefit is equal to the Benefit Credit Account divided by 9.

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For Sunnyvale participants effective January 1, 2011:

Effective January 1, 2011, benefits earned by participants at the Sunnyvale location are determined under the Flat Rate Formula.

Flat Rate Formula:

A Participant's monthly benefit is equal to:

- (1) \$140 for each year of Credit Service through December 31, 2016 in which the Participant had an election to contribute in effect under the Northrop Grumman ES Union Represented Employees Flat Rate Pension Plan.
- (2) \$145 for each year of Credit Service from January 1, 2017 through December 31, 2018 in which the Participant had an election to contribute in effect under the Northrop Grumman ES Union Represented Employees Flat Rate Pension Plan.
- (3) \$150 for each year of Credit Service from January 1, 2019 in which the Participant had an election to contribute in effect under the Northrop Grumman ES Union Represented Employees Flat Rate Pension Plan.

Transition Period Accrued Benefit. For Sunnyvale employees who were hired prior to 2005 and were eligible to participate in the Predecessor Pension Plan as of December 31, 2010, the Transition Period Accrued Benefit during the period from January 1, 2011 to December 31, 2016 is the greater of (a) amount calculated using the Flat Rate Formula or (b) the greater of (i) and (ii) below:

- (i) Career Accumulation Method – a Participant's benefit is 2% of Eligible Pay for each year of Transition Benefit Service divided by 12
- (ii) Flat Rate Method – a Participant's benefit is \$34.00 for each year of Transition Benefit Service.

Eligibility for Benefits

Normal retirement

Retirement on or after their normal retirement date. (NRD)

Early retirement

For employees hired on or before December 31, 2004:

First day of the month in which a participant retires after age 58 with at least 30 years of points service or age 60 with 10 years of points service.

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For employees hired on or after January 1, 2005:

First day of the month in which a participant retires after age 55 with at least 10 years of vesting service.

For the portion of a Sunnyvale participant's benefit accrued under the Flat Rate formula:

First day of the month in which a participant retires after age 55 with at least 3 years of vesting service.

Vested termination

Participants who terminate after completing 3 or more years of vesting service.

Postponed retirement

Retirement after NRD

Preretirement death benefit

For employees hired on or before December 31, 2004:

Spouses of active and inactive participants who die while eligible for deferred vested retirement benefits are eligible for survivor benefits.

Special Spouses' Benefits

Spouses of participants who die while active and after:

- (iii) Attaining age 50 with 15 years of points service,
- (iv) Attaining age 60 with 10 years of points service,
- (v) Completing 25 years of points service, or
- (vi) Who on his or her date of death was eligible for an immediate benefit

For employees hired on or after January 1, 2005:

Spouses of participants who die while actively employed and were vested are eligible for survivor benefits.

For the portion of a Sunnyvale participant's benefit accrued under the Flat Rate formula:

Spouses of active and inactive participants who die while eligible for deferred vested retirement benefits are eligible for survivor benefits.

Benefits Paid Upon the Following Events

Normal retirement

Monthly pension benefit determined as of NRD

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Early retirement

For employees hired on or before December 31, 2004:

The benefit determined under "Pension Benefits at Normal or Postponed Retirement" based on benefit service and compensation history as of the early retirement date, reduced by the following:

- Hired on or after January 1, 1995 – 6% per year from normal retirement to early retirement date
- Hired before January 1, 1995 and less than 30 years of points service – the greater of (i) and (ii):
 - (i) Career accumulation benefit reduced by 4% per year from normal retirement to early retirement, or
 - (ii) Flat rate benefit with no early retirement reduction
- Hired before January 1, 1995 and 30 or more years of points service – the greater of (i) and (ii):
 - (i) Career accumulation benefit with no reduction from normal retirement to age 60, and 3% from age 60 to early retirement, or
 - (ii) Flat rate benefit with no reduction from normal retirement to age 60, and 3% from age 60 to early retirement.

In addition, if hired before January 1, 1995, a monthly temporary supplement benefit equal to \$12 for each year of benefit service is payable from retirement age to age 62.

For employees hired on or after January 1, 2005:

The benefit is the Benefit Credit Account at retirement divided by the factor below:

Age	Factor
55	11.50
56	11.25
57	11.00
58	10.75
59	10.50
60	10.25
61	10.00
62	9.75
63	9.50
64	9.25

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For Kings Bay, IUE and Hagerstown represented employees hired prior to January 1, 2005, the benefit is the Benefit Credit Account at retirement divided by 9.

For the portion of a Sunnyvale participant's benefit accrued under the Flat Rate Formula:

The monthly benefit determined under "Pension Benefits at Normal or Postponed Retirement" based on benefit service and compensation history as of the early retirement date, reduced by the following:

- (1) Less Than 20 Years of Credited Service – 0.4% for each month from age 65 to benefit commencement date
- (2) 20 or More Years of Credited Service – 0.4% for each month from age 62 to benefit commencement date
- (3) 30 or More Years of Credited Service – No reduction

Postponed retirement

Monthly pension benefit determined as of actual retirement date.

Vested termination

For employees hired on or before December 31, 2004:

Normal retirement benefit is determined on the basis of benefit service and compensation history at termination.

For employees hired on or after January 1, 2005:

The age 65 benefit is the Benefit Credit Account balance at termination, projected to Normal Retirement Age with Interest Credits and divided by 9.

For the portion of a Sunnyvale participant's benefit accrued under the Flat Rate Formula:

Normal retirement benefit is determined on the basis of benefit service and compensation history at termination.

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Preretirement death

For employees hired on or before December 31, 2004:

55% of the amount that would have been payable to the spouse if the participant had terminated on the date of death, survived to the earliest possible retirement date, and elected to retire with a 55% joint and survivor annuity with the spouse named as the survivor.

Monthly payments begin the first day of the month after the participant's earliest possible retirement date.

Special Spouses' Benefits

55% of monthly pension benefit payable to eligible spouse immediately, reduced for joint and survivor option, and special death early retirement factors.

Less than 30 years of points service: Benefit calculated using actual credited service at time of death, reduced 4% from normal retirement to age at commencement, but not more than 20%.

30 or more years of points service: Unreduced benefit calculated using actual credited service at time of death.

For employees hired on or after January 1, 2005:

The benefit is the amount that would have been payable to the spouse if the participant had terminated on the date of death and elected to retire on the earliest possible retirement date with a 100% joint and survivor annuity naming the spouse as survivor. The participant's Benefit Credit Account as of the date of death will be credited with Interest Credits, but not Benefit Credits, through the spouse's benefit commencement date. Monthly payments begin at the request of the beneficiary but no earlier than the first day of the month after the participant's earliest possible retirement date.

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For the portion of a Sunnyvale participant's benefit accrued under the Flat Rate Formula:

Pre-Retirement Death Benefit for Married Participants:

A monthly benefit based on the Flat Rate Formula equal to the survivor portion of the 50% Joint and Survivor Pop-Up Option that the Participant would have received if the deceased Participant had attained Early Retirement Age as of his date of death.

Pre-Retirement Death Benefit for Unmarried Participants:

A monthly benefit payable for 60 months based on the Flat Rate Formula equal to the Single Life Annuity that the Participant would have received if the deceased Participant had retired the day before his death.

Lump Sum Death Benefit:

A lump sum equal to \$200 multiplied by the Participant's years of post-2010 Credit Service as of date of death is paid in addition to the Pre-Retirement Death Benefits noted above.

Other Plan Provisions

Forms of payment

For employees hired on or before December 31, 2004:

Normal Form of Retirement Income: If the participant is not married, monthly payments for the participant's life with an underlying 60 month guarantee at retirement; if the participant is married, a reduced 55% joint and survivor annuity with an underlying 60 month guarantee at retirement

Optional Forms of Retirement Income in Lieu of Normal Form:

- a. 55%, 75% or 100% contingent annuitant option (where the reduced 55% option is the normal form under the plan for employees with qualifying spouses)
- b. Life annuity for married participants
- c. A lump sum payment is available for benefits earned prior to January 1, 1995. A lump sum payment is also available for benefits earned after December 31, 1994 but is limited to \$10,000.

Upon retirement only, there is an underlying 60-month guarantee of monthly pension benefits, payable as a life annuity (does not apply to temporary supplement).

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For employees hired on or after January 1, 2005:

Normal Form of Retirement Income: If the participant is not married, monthly payments for the participant's life; if the participant is married, a reduced 50% joint and survivor annuity

Optional Forms of Retirement Income in Lieu of the Normal Form:

- a. 50% or 100% contingent annuitant option (where the reduced 50% option is the normal form under the plan for employees with qualifying spouses)
- b. Life annuity for married participants
- c. A lump sum payment (limited to \$5,000)
- d. Ten-year certain and continuous option
- e. Level income option

For the portion of a Sunnyvale participant's benefit accrued under the Flat Rate Formula:

Normal Form of Retirement Income: If the participant is not married, monthly payments for the participant's life with an underlying 60 month guarantee at retirement; if the participant is married, a reduced 50% joint and survivor pop-up annuity

Forms of payment

Optional Forms of Retirement Income in Lieu of Normal Form:

- a. 50%, 75%, or 100% joint and survivor pop-up option (where the reduced 50% option is the normal form under the plan for employees with qualifying spouses)
- b. Life annuity for married participants with an underlying 60-month guarantee
- c. A lump sum payment (limited to \$5,000)
- d. Ten-year certain and continuous option
- e. Level income option
- f. Reduced single life annuity or ten-year certain and continuous option with a partial lump sum payment from \$500 to \$7,000

Pension Increases

None

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Plan participants' contributions

- (1) No employee contributions are required for IUE and Hagerstown represented employees beginning on January 1, 2010.
- (2) No employee contributions are required for Kings Bay represented employees.
- (3) 1.50% of compensation for Sunnyvale participants
- (4) 3.50% of compensation for participants not included in (1)-(3) above who were hired before 2005, and no employee contribution for all others hired after 2004

Employee contributions are credited annually with interest at the greater of 5% per year or 120% of the Federal mid-term rate in effect on the first month of each plan year.

Maximum on benefits and pay

All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code. The plan provides for increasing the dollar limits automatically as such changes become effective. Increases in the dollar limits are assumed for determining pension cost but not for determining contributions.

Future Plan Changes

WTW is not aware of any future plan changes that are required to be reflected in this valuation.

Changes in Benefits Valued Since Prior Year

There have been no changes in benefits valued since the prior valuation.

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Schedule SB, Line 26a Schedule of Active Participant Data as of January 1, 2024

Attained Age	Years of Credited Service ¹																														
	Under 1			1 to 4			5 to 9			10 to 14			15 to 19			20 to 24			25 to 29			30 to 34			35 to 39			40 & Up			
	No.	Average		No.	Average		No.	Average		No.	Average		No.	Average		No.	Average		No.	Average		No.	Average		No.	Average					
		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.				
Under 25																															
25 to 29																															
30 to 34				1						6			5																		
35 to 39										14			19			3															
40 to 44										14			35	137,197	73,025	24	135,456	34,777													
45 to 49							1			13			19			26	147,077	30,727													
50 to 54										10			22	127,711	73,749	19					1										
55 to 59										21	151,851	4,226	28	145,023	89,655	33	147,499	28,588	4			5			9						
60 to 64										21	156,078	42,217	34	143,684	81,179	26	130,953	24,711	2			5			22	155,172	29,205	39	137,880	105,743	
65 to 69										11			21	133,843	95,637	22	138,761		2			3			10			53	143,297	59,812	
70 & Up										1			3			3					2			2			1		21	129,336	80,380

Census data as of January 1, 2024 ²

¹ Age and service for purposes of determining category are based on exact (not rounded) ages

² Excludes 233 active participants who transferred out or are no longer due any future accrual.

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Schedule SB, Line 26b Schedule of Projection of Expected Benefit Payments

Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2024	2,024,881	241,112	36,113,306	38,379,299
2025	5,156,233	643,988	35,314,594	41,114,815
2026	7,282,482	935,259	34,539,666	42,757,407
2027	9,223,473	1,136,591	33,673,151	44,033,215
2028	10,809,001	1,266,593	32,725,518	44,801,112
2029	11,943,830	1,349,385	31,740,942	45,034,157
2030	12,797,581	1,392,092	30,692,221	44,881,894
2031	13,511,386	1,440,035	29,570,548	44,521,969
2032	14,030,207	1,472,827	28,386,381	43,889,415
2033	14,380,528	1,488,633	27,151,272	43,020,433
2034	14,650,175	1,513,937	25,866,689	42,030,801
2035	14,828,284	1,526,480	24,541,218	40,895,982
2036	14,968,825	1,529,060	23,178,820	39,676,705
2037	15,094,595	1,539,928	21,788,295	38,422,818
2038	15,140,875	1,547,137	20,379,360	37,067,372
2039	15,120,113	1,537,972	18,962,458	35,620,543
2040	15,063,092	1,528,983	17,548,907	34,140,982
2041	14,975,979	1,530,922	16,148,704	32,655,605
2042	14,865,376	1,529,774	14,771,443	31,166,593
2043	14,746,509	1,554,154	13,427,248	29,727,911
2044	14,646,104	1,574,110	12,124,968	28,345,182
2045	14,478,484	1,610,097	10,872,732	26,961,313
2046	14,245,054	1,659,600	9,677,973	25,582,627
2047	13,976,002	1,645,145	8,551,381	24,172,528
2048	13,708,112	1,629,669	7,494,968	22,832,749
2049	13,451,720	1,623,591	6,509,997	21,585,308
2050	13,052,795	1,595,784	5,604,501	20,253,080
2051	12,570,905	1,558,867	4,781,229	18,911,001
2052	12,074,192	1,513,562	4,041,420	17,629,174
2053	11,535,728	1,452,607	3,384,696	16,373,031
2054	11,028,411	1,384,256	2,809,062	15,221,729
2055	10,485,130	1,317,506	2,311,056	14,113,692
2056	9,870,134	1,246,859	1,885,889	13,002,882
2057	9,258,779	1,175,408	1,527,703	11,961,890
2058	8,663,911	1,107,866	1,229,887	11,001,664
2059	8,100,261	1,042,795	985,408	10,128,464
2060	7,563,109	980,522	787,161	9,330,792
2061	7,046,121	921,715	628,240	8,596,076
2062	6,559,112	866,115	502,160	7,927,387
2063	6,101,979	813,225	403,021	7,318,225

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Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2064	5,672,021	762,688	325,596	6,760,305
2065	5,266,578	714,103	265,402	6,246,083
2066	4,882,817	667,054	218,684	5,768,555
2067	4,517,727	621,195	182,354	5,321,276
2068	4,168,822	576,244	153,937	4,899,003
2069	3,834,136	532,007	131,476	4,497,619
2070	3,512,188	488,409	113,459	4,114,056
2071	3,202,035	445,494	98,745	3,746,274
2072	2,903,205	403,401	86,485	3,393,091
2073	2,615,728	362,341	76,064	3,054,133

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SCHEDULE SB ATTACHMENTS

Schedule SB, Part V Statement of Actuarial Assumptions/Methods

Plan Sponsor

Northrop Grumman Corporation

Statement of Assumptions

The assumptions disclosed in this Appendix are for the valuations to determine funding requirements for the plan year beginning January 1, 2024.

Assumptions and methods for funding purposes

Economic Assumptions

Interest rate basis:

- Applicable month September
- Interest rate basis 3-Segment Rates

Interest rates:

	Reflecting Corridors	Not Reflecting Corridors
• First segment rate	4.75%	3.62%
• Second segment rate	4.87%	4.46%
• Third segment rate	5.59%	4.52%
• Effective interest rate	5.13%	4.43%

Annual rates of increase

- Compensation

Age	Compensation Rates
Under age 30	5.25%
30 to 39	4.25%
40 to 49	3.25%
50 to 59	2.75%
Over age 60	2.75%
Weighted average	3.00%

For 2024, compensation was increased by 50 basis points for all ages over the scale above.

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- Future Social Security wage base 4.00% for 2024, 3.00% for 2025 and beyond
- Lump sum option assumptions (for those who are eligible for this form of payment)
 - Lump sum conversion interest rate September 3-Segment Rates with 24-month average, reflecting corridors
- Lump sum election for Westinghouse Plan 100% benefits earned prior to 1995 (for those eligible)
 - \$10,000 lump sum election for benefits 100% earned after 1994 (for those eligible)
- Cash balance interest credit rate: 5.00%

Demographic Assumptions

Inclusion date The valuation date coincident with or next following the date on which the employee becomes a participant.

New or rehired employees It was assumed there will be no new or rehired employees.

Benefit commencement dates

- Preretirement death benefit The later of the death of the active participant or the date the participant would have met early retirement eligibility.

- Deferred vested benefit

For current actives expected to terminate before retirement eligibility: The later of age 65 or termination of employment

For current deferred vested participants:

Age	Benefit Commencement Age
60	5%
62	10%
65	75%
67	50%
68	100%

- Retirement benefit Upon retirement

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Form of payment When lump sum option is not available, 35% of participants are assumed to elect 100% joint and survivor annuity, 15% of participants are assumed to elect 50% joint and survivor annuity and 50% of participants are assumed to elect single life annuity.

Percent married 65% of male participants are married and 40% of female participants are married.

Spouse age Male participants are assumed to be two years older than their spouses, and female participants are assumed to be one year younger than their spouses.

Covered pay Plan compensation is developed using rate of pay, previous year's pensionable pay and adjusted bonus, increased to the current year by salary increase.

Healthy mortality rates Separate rates for non-annuitants and annuitants based on Pri-2012 "Employees" and "Healthy Annuitants" (participants and beneficiaries combined) tables, respectively, without collar or amount adjustments and then projected forward with a generational projection as specified in the regulations under §1.430(h)(3)-1 using the IRS adjusted Scale MP-2021 (i.e., MP-2021 with no mortality improvement for 2020-2023 and future mortality improvement capped at 0.78% for years after 2024).

Termination (not due to disability or retirement) rates Sample Annual rates per 1,000 Participants

Age	Rates
20	90.0
25	90.0
30	68.8
35	47.5
40	38.0
45	34.5
50	28.0
55	28.0
60	28.0
65	28.0

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Retirement

The rates at which participants are assumed to retire by age are shown below:

Annual rates per 1,000 participants.

Age	Rates
55	40
56	40
57	40
58	45
59	45
60	55
61	65
62	90
63	110
64	140
65	190
66	260
67	230
68	220
69	190
70+	1,000

The weighted average retirement age is 64.

Administrative expenses

Assumed administrative expenses for 2024 are \$2,000,000 which equals the average of the administrative expenses other than PBGC premiums paid by the plan for the prior 3 plan years and an estimate of expected 2024 PBGC premiums.

Timing of benefit payments

Annuity payments are payable monthly at the beginning of the month and lump sum payments are payable on date of decrement.

Late Retirement

The liabilities include an estimate of the actuarial increase to benefits that participants may receive when they work past age 64.

Vested Terminated Participants

The terminated vested participants with termination dates before January 1, 2000, 10% of age 65 and 33% of age 66 and older are assumed to ultimately have no benefit due. For terminated vested participants with termination dates January 1, 2000 through December 31, 2021, the same assumption is used except it is based on their age at January 1, 2022. In addition to this, 100% of any terminated vested participant who is more than two years past their Required Minimum Distribution age and terminated two or more years ago is assumed to have no benefit due.

Plan Name: NG ES Union Represented Employees Pension Plan
EIN / PN: 80-0640649/045
Plan Sponsor: Northrop Grumman Corporation
Valuation Date: January 1, 2024

SCHEDULE SB ATTACHMENTS

Contingent Survivors

For participants who have commenced their benefits and elected a Joint and Survivor option, to account for the possible deaths of contingent survivors where the participant is still alive, we have reduced the continuation percentage for these individuals. Below is a sample of the amount of reductions that were applied.

Age	Years Since Benefit Commenced		
	2	10	15
60 to 64	1%	2%	3%
65 to 69	1%	3%	4%
70 to 74	1%	4%	5%
75 to 79	2%	7%	8%
80 to 84	4%	11%	14%
85 to 89	7%	18%	21%
90 to 94	34%	34%	34%
95 to 99	43%	43%	43%
100 plus	50%	50%	50%

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Methods

Valuation date	First day of the plan year.
Funding target	Present value of accrued benefits as required by regulations under IRC §430.
Target normal cost	Present value of benefits expected to accrue during the plan year plus plan-related expenses expected to be paid from plan assets during the plan year as required by regulations under IRC §430.
Actuarial value of assets for determining minimum required contributions	Average of the fair market value of assets on the valuation date and 12 and 24 months preceding the valuation date, adjusted for contributions, benefits, administrative expenses and expected earnings (with such expected earnings limited as described in IRS Notice 2009-22). The average asset value must be within 10% of market value, including discounted contributions receivable (discounted using the effective interest rate for the prior plan year.) The method of computing the actuarial value of assets complies with rules governing the calculation of such values under the Pension Protection Act of 2006 (PPA). These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a significant bias to produce an actuarial value of assets that is below the market value of assets.
Benefits not valued	WTW has reviewed the plan provisions with Northrop Grumman Corporation and, based on that review, is not aware of any significant benefits required to be valued that were not.
Decrement Timing	The approach used is called rounded middle of year (rounded MOY) decrement timing. Most events are assumed to occur at the middle of year during which the eligibility condition will be met or the start/end date will occur. For death and disability decrements, the rate applied is based on the participant's rounded age (nearest integer age) at the beginning of the year, to align with the methodology generally used to create those rate tables. For retirement and withdrawal decrements: the age is generally the participant's rounded age at the middle of the year.

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Sources of Data and Other Information

Fidelity furnished participant data as of January 1, 2024. Information on assets, contributions and plan provisions was supplied by the plan sponsor. Data and other information were reviewed for reasonableness and consistency, but no audit was performed. Based on discussions with the plan sponsor, assumptions or estimates were made when data were not available, and the data was adjusted to reflect any significant events that occurred between the date the data was collected and the measurement date.

We are not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations.

Assumptions Rationale – Significant Economic Assumptions

Interest Rate	The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.
Cash balance interest crediting rate	The plan credits interest monthly to cash balance accounts using the average annual rate of interest on 30-year Treasury Securities for the preceding fourth month, subject to a minimum of 2.25%, divided by 12. Our long-term estimate of the 30-year Treasury rate is based on the median result rounded to the nearest 25bps from an economic model that forecasts potential future outcomes for bond yields and other asset class returns.
Rates of increase in Compensation	Assumed compensation increases are based on the experience study conducted in 2023, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future.
Administrative Expenses	As required by regulations, administrative expenses are calculated by estimating the expenses to be paid from the trust during the coming year (including, for example, expected PBGC premiums and actuarial, accounting, legal, administration and trustee fees to be paid from the trust).

Assumptions Rationale – Significant Demographic Assumptions

Healthy Mortality	Assumptions used for funding purposes are as prescribed by IRC §430(h).
Termination	Termination rates were based on the experience study conducted in 2023, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future.

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Retirement	Retirement rates were based on the experience study conducted in 2023, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future.
Benefit commencement date for deferred vested benefits	Deferred vested participants' assumed commencement age were based on an experience review conducted in 2022.
Form of payment	The form of payment assumption is based on the observed elections for recent retirees.
Vested Terminated Participants	The exclusion assumption is based on a study conducted in 2021. The variation in the assumption for participants with termination dates prior to January 1, 2000 is based on a greater likelihood of bad records.

Prescribed Methods

Funding	The methods used for funding purposes as described in Appendix A, including the method of determining plan assets, are "prescribed methods set by law", as defined in the actuarial standards of practice (ASOPs). These methods are required by IRC §430, or were selected by the plan sponsor from a range of methods permitted by IRC §430.
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Changes in Assumptions and Methods

- The mortality table used to calculate the funding target and target normal cost was updated to reflect the latest mortality base table and improvement scale, as required by guidance issued by IRS under IRC §430. The mortality improvement was changed from using static projection to generational projection as required by guidance issued by IRS under IRC §430.
- The segment interest rates used to calculate the funding target and target normal cost were updated to the current valuation date as required by IRC §430.
- Retirement Rates were updated for some ages based on the results of the 2023 experience study.
- Termination Rates were updated based on the results of the 2023 experience study.
- The cash balance interest crediting rate changed from 4.25% to 5.00%.
- The Social Security wage base increase changed from 3.00% for 2024 and beyond to 4.00% for 2024 and 3.00% thereafter.
- Percent married assumption is updated to reflect results of 2023 experience study such that 65% of male participants are married and 40% of female participants are married.
- Spouse age difference is updated to reflect results of the 2023 experience study such that male participants are assumed to be two years older than their spouses, and female participants are assumed to be one year younger than their spouses

Additional Information

None

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Schedule SB, Line 24 Change in Actuarial Assumptions

The following changes have been made since the prior valuation:

- Retirement Rates were updated for some ages based on the results of the 2023 experience study.
- Termination Rates were updated based on the results of the 2023 experience study.
- The cash balance interest crediting rate changed from 4.25% to 5.00%.
- The Social Security wage base increase changed from 3.00% for 2024 and beyond to 4.00% for 2024 and 3.00% thereafter.
- Percent married assumption is updated to reflect results of 2023 experience study such that 65% of male participants are married and 40% of female participants are married.
- Spouse age difference is updated to reflect results of the 2023 experience study such that male participants are assumed to be two years older than their spouses, and female participants are assumed to be one year younger than their spouses.

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Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	Northrop Grumman Corporation
EIN/PN	80-0640649/045
Plan Name	NG ES Union Represented Employees Pension Plan
Valuation Date	January 1, 2024
Enrolled Actuary	Thomas R Supple
Enrollment Number	23-05740

The actuarial assumptions that are not mandated by IRC § 430 and regulations, represent the enrolled actuary's best estimate of anticipated experience under the plan, subject to the following conditions:

The actuarial valuation, on which the information in this Schedule SB is based, has been prepared in reliance upon the employee and financial data furnished by the plan administrator and the trustee. The enrolled actuary has not made a rigorous check of the accuracy of this information but has accepted it after reviewing it and concluding it is reasonable in relation to similar information furnished in previous years. The amounts of contributions and dates paid shown in Item 18 of Schedule SB were listed in reliance on information provided by the plan administrator and/or trustee.

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 22 Description of Weighted Average Retirement Age as of January 1, 2024

See Schedule SB, Part V - Statement of Actuarial Assumptions/Methods for retirement rates.

The average retirement age for Line 22 was calculated by creating a hypothetical life table with retirement as the only decrement, and then computing the average retirement age.

Year	x	q_x^r	l_x	${}_{x-55}p_{55} = l_x / l_{55}$	$q_x^r * l_x / l_{55}$	$x * q_x^r * l_x / l_{55}$
2024	55	0.040	1,000,000	1.000000	0.040000	2.200000
2025	56	0.040	960,000	0.960000	0.038400	2.150400
2026	57	0.040	921,600	0.921600	0.036864	2.101248
2027	58	0.045	884,736	0.884736	0.039813	2.309161
2028	59	0.045	844,923	0.844923	0.038022	2.243270
2029	60	0.055	806,901	0.806901	0.044380	2.662774
2030	61	0.065	762,522	0.762522	0.049564	3.023399
2031	62	0.090	712,958	0.712958	0.064166	3.978305
2032	63	0.110	648,792	0.648792	0.071367	4.496126
2033	64	0.140	577,425	0.577425	0.080839	5.173724
2034	65	0.190	496,585	0.496585	0.094351	6.132826
2035	66	0.260	402,234	0.402234	0.104581	6.902335
2036	67	0.230	297,653	0.297653	0.068460	4.586835
2037	68	0.220	229,193	0.229193	0.050422	3.428726
2038	69	0.190	178,770	0.178770	0.033966	2.343681
2039	70	1.000	144,804	0.144804	0.144804	10.136286

Average age at retirement 63.86909576

Rounded for Schedule SB item 22 64

Plan Name: NG ES Union Represented Employees Pension Plan
 EIN / PN: 80-0640649/045
 Plan Sponsor: Northrop Grumman Corporation
 Valuation Date: January 1, 2024

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan NG ES Union Represented Employees Pension Plan	B Three-digit plan number (PN) ▶ 045
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Northrop Grumman Corporation	D Employer Identification Number (EIN) 80-0640649
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I Basic Information			
1 Enter the valuation date: Month 01 Day 01 Year 2024			
2 Assets:			
a Market value		2a	640,520,322
b Actuarial value		2b	667,297,813
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment.....	1,768	381,521,584	381,521,584
b For terminated vested participants	265	22,722,585	22,722,585
c For active participants	867	202,023,293	203,559,917
d Total	2,900	606,267,462	607,804,086
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐			
a Funding target disregarding prescribed at-risk assumptions		4a	
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor		4b	
5 Effective interest rate		5	5.13%
6 Target normal cost			
a Present value of current plan year accruals		6a	7,233,563
b Expected plan-related expenses		6b	2,000,000
c Target normal cost		6c	9,233,563

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE Thomas R Supple <i>TRS</i> Signature of actuary Thomas R Supple Type or print name of actuary Willis Towers Watson US LLC Firm name 300 South Grand Suite 2000 Los Angeles CA 90071 Address of the firm	<i>9/10/2025</i> Date 2305740 Most recent enrollment number 213-337-6000 Telephone number (including area code)
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If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

For Paperwork Reduction Act Notice, see the Instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2024
v. 240311

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	35,588,134
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)	0	35,588,134
10 Interest on line 9 using prior year's actual return of <u>12.88%</u>	0	4,583,752
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		0
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.24%</u>		0
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance		0
d Portion of (c) to be added to prefunding balance		0
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	40,171,886

Part III Funding Percentages

14 Funding target attainment percentage	14	103.17 %
15 Adjusted funding target attainment percentage	15	109.78 %
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	105.60 %
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
02/02/2024	0	57,004	08/16/2024	0	52,159
02/16/2024	0	56,468	08/30/2024	0	52,700
03/01/2024	0	56,063	09/13/2024	0	52,349
03/15/2024	0	54,983	10/11/2024	0	54,225
03/28/2024	0	54,320	09/27/2024	0	53,124
04/12/2024	0	53,090	11/08/2024	0	53,286
05/10/2024	0	53,253	10/25/2024	0	52,848
04/26/2024	0	54,025	12/06/2024	0	51,668
06/07/2024	0	51,718	11/22/2024	0	54,202
05/24/2024	0	52,220	12/20/2024	0	52,740
06/21/2024	0	52,268	08/09/2024	0	48,378
07/10/2024	0	52,781	01/19/2024	0	55,669
07/19/2024	0	50,936			
08/02/2024	0	52,427			
Totals ►			18(b)	0	18(c) 1,384,904

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years.	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	0

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No
- b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No
- c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21	Discount rate:				
	a Segment rates:	1st segment: 4.75 %	2nd segment: 4.87 %	3rd segment: 5.59 %	☐ N/A, full yield curve used
	b Applicable month (enter code).....				21b 4
22	Weighted average retirement age				22 64
23	Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24	Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.	☒ Yes ☐ No
25	Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
26	Demographic and benefit information	
	a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.	☒ Yes ☐ No
	b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...	☒ Yes ☐ No
27	If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28	Unpaid minimum required contributions for all prior years	28	0
29	Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30	Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31	Target normal cost and excess assets (see instructions):		
	a Target normal cost (line 6c).....	31a	9,233,563
	b Excess assets, if applicable, but not greater than line 31a	31b	9,233,563
32	Amortization installments:	Outstanding Balance	Installment
	a Net shortfall amortization installment	0	0
	b Waiver amortization installment	0	0
33	If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33	
34	Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....	34	0
		Carryover balance	Prefunding balance
35	Balances elected for use to offset funding requirement	0	0
36	Additional cash requirement (line 34 minus line 35).....	36	0
37	Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....	37	0
38	Present value of excess contributions for current year (see instructions)		
	a Total (excess, if any, of line 37 over line 36)	38a	0
	b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0
39	Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0
40	Unpaid minimum required contributions for all years	40	0

Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)

41	If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☐ 2019 ☐ 2020 ☒ 2021
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