

Form 5500-SF Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Short Form Annual Return/Report of Small Employee Benefit Plan This form is required to be filed 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-SF.	OMB Nos. 1210-0110 1210-0089 <div style="border: 1px solid black; text-align: center; padding: 5px; font-weight: bold; font-size: 1.2em;">2022</div> This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2022 or fiscal plan year beginning <u>01/01/2022</u> and ending <u>12/31/2022</u>	
A	This return/report is for: ☒ a single-employer plan ☐ a multiple-employer plan (not multiemployer) (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)
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	Check box if filing under: ☒ Form 5558 ☐ automatic extension ☐ DFVC program ☐ special extension (enter description)
D	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 <u>EMCORE SPACE & NAVIGATION CORPORATION PENSION PLAN</u>	1b	Three-digit plan number (PN) ► <u>002</u>
		1c	Effective date of plan <u>01/01/2000</u>
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) <u>EMCORE CORPORATION</u> <u>2015 CHESTNUT STREET</u> <u>ALHAMBRA, CA 91803</u>	2b	Employer Identification Number (EIN) <u>22-2746503</u>
		2c	Sponsor's telephone number <u>626-293-3400</u>
		2d	Business code (see instructions) <u>335900</u>
3a	Plan administrator's name and address ☐ Same as Plan Sponsor. <u>ALIGHT SOLUTIONS LLC</u> <u>4 OVERLOOK POINT</u> <u>LINCOLNSHIRE, IL 60069</u>	3b	Administrator's EIN <u>82-1061233</u>
		3c	Administrator's telephone number <u>224-737-7000</u>
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 <u>L3HARRIS TECHNOLOGIES, INC.</u> c Plan Name <u>L3HARRIS SPACE & NAVIGATION PENSION PLAN FOR HOURLY EMPLOYEES</u>	4b	EIN <u>34-0276860</u>
		4d	PN <u>035</u>
5a	Total number of participants at the beginning of the plan year.....	5a	<u>72</u>
b	Total number of participants at the end of the plan year	5b	<u>70</u>
c	Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	5c	
d(1)	Total number of active participants at the beginning of the plan year	5d(1)	<u>10</u>
d(2)	Total number of active participants at the end of the plan year	5d(2)	<u>3</u>
e	Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....	5e	<u>0</u>
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, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, 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.	10/04/2024	SUSAN FLORIO
	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

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

Form 5500-SF (2022)
v.220413

- 6a** Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.)..... ☒ Yes ☐ No
- b** Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.)..... ☒ Yes ☐ No
- If you answered "No" to either line 6a or line 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.**
- c** If the plan is a defined benefit plan, is it covered under the PBGC insurance program (see ERISA section 4021)? ☒ Yes ☐ No ☐ Not determined
- If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 485031. (See instructions.)

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets.....	7a	11283691	9466755
b Total plan liabilities.....	7b	0	0
c Net plan assets (subtract line 7b from line 7a).....	7c	11283691	9466755
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers.....	8a(1)	0	
(2) Participants.....	8a(2)	0	
(3) Others (including rollovers).....	8a(3)	0	
b Other income (loss).....	8b	-1185252	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b).....	8c		-1185252
d Benefits paid (including direct rollovers and insurance premiums to provide benefits).....	8d	547124	
e Certain deemed and/or corrective distributions (see instructions).....	8e		
f Administrative service providers (salaries, fees, commissions).....	8f	78224	
g Other expenses.....	8g	6336	
h Total expenses (add lines 8d, 8e, 8f, and 8g).....	8h		631684
i Net income (loss) (subtract line 8h from line 8c).....	8i		-1816936
j Transfers to (from) the plan (see instructions).....	8j	0	

Part IV Plan Characteristics

- 9a** If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions:
1I
- b** If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

Part V Compliance Questions

10 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? (See instructions and DOL's Voluntary Fiduciary Correction Program).....	10a		X	
b Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.).....	10b		X	
c Was the plan covered by a fidelity bond?.....	10c	X		1000000
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?.....	10d		X	
e Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service, or other organization that provides some or all of the benefits under the plan? (See instructions.).....	10e		X	
f Has the plan failed to provide any benefit when due under the plan?.....	10f		X	
g Did the plan have any participant loans? (If "Yes," enter amount as of year-end.).....	10g		X	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.).....	10h			
i If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.....	10i			

Part VI Pension Funding Compliance

11 Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and lines 11a and b below.) If this is a defined contribution pension plan, leave line 11 blank and complete line 12 below. ☒ Yes ☐ No

a Enter the unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40. **11a** 0

b PBGC missed contribution reporting requirements. If the plan is covered by PBGC and the amount reported on line 11a is greater than \$0, 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 _____

12 Is this a defined contribution plan subject to the minimum funding requirements of section 412 of the Code or section 302 of ERISA? ☐ Yes ☐ No
(If "Yes," complete line 12a or lines 12b, 12c, 12d, and 12e below, as applicable.) If this is a defined benefit pension plan, leave line 12 blank and complete line 11 above.

a 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 letter ruling granting the waiver. Month Day Year

If you completed line 12a, complete lines 3, 9, and 10 of Schedule MB (Form 5500), and skip to line 13.

b Enter the minimum required contribution for this plan year **12b**

c Enter the amount contributed by the employer to the plan for this plan year **12c**

d Subtract the amount in line 12c from the amount in line 12b. Enter the result (enter a minus sign to the left of a negative amount) **12d**

e Will the minimum funding amount reported on line 12d be met by the funding deadline? ☐ Yes ☐ No ☐ N/A

Part VII Plan Terminations and Transfers of Assets

13a Has a resolution to terminate the plan been adopted in any plan year? ☐ Yes ☒ No

If "Yes," enter the amount of any plan assets that reverted to the employer this year. **13a**

b Were all the plan assets distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC? ☐ Yes ☒ No

c 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.)

13c(1) Name of plan(s):	13c(2) EIN(s)	13c(3) PN(s)

<div>SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Single-Employer Defined Benefit Plan Actuarial Information</div> <div>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).</div> <div>File as an attachment to Form 5500 or 5500-SF.</div>	<div>OMB No. 1210-0110</div> <div>2022</div> <div>This Form is Open to Public Inspection</div>
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For calendar plan year 2022 or fiscal plan year beginning	01/01/2022	and ending	12/31/2022
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 EMCORE SPACE & NAVIGATION CORPORATION PENSION PLAN	B Three-digit plan number (PN) 002
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF EMCORE CORPORATION	D Employer Identification Number (EIN) 22-2746503
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 2022			
2 Assets:			
a Market value	2a	11294194	
b Actuarial value	2b	10423336	
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	42	4893986	4893986
b For terminated vested participants	20	1238677	1238677
c For active participants	10	1423425	1601937
d Total	72	7556088	7734600
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	5.37 %	
6 Target normal cost			
a Present value of current plan year accruals	6a	30772	
b Expected plan-related expenses	6b	80000	
c Total (line 6a + line 6b)	6c	110772	

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.

<div>SIGN HERE</div>	<div>Signature of actuary</div> <div>AIDA DOMLIJA, FSA, MAAA</div> <div>Type or print name of actuary</div> <div>SEGal</div> <div>Firm name</div> <div>333 W 34TH STREET NEW YORK, NY 10001-2402</div> <div>Address of the firm</div>	<div>10/02/2024</div> <div>Date</div> <div>23-06955</div> <div>Most recent enrollment number</div> <div>212-251-5000</div> <div>Telephone number (including area code)</div>
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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	1306036
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	87170
9 Amount remaining (line 7 minus line 8)	0	1218866
10 Interest on line 9 using prior year's actual return of <u>13.87</u> %	0	169057
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>4.91</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	1387923

Part III Funding Percentages		
14 Funding target attainment percentage	14	116.81 %
15 Adjusted funding target attainment percentage	15	134.76 %
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	100.30 %
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
			Totals ►	18(b)	0
				18(c)	0

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

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

21 Discount rate:			
a Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %
			☐ N/A, full yield curve used
b Applicable month (enter code).....			21b 4
22 Weighted average retirement age			22 61
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	110772
b Excess assets, if applicable, but not greater than line 31a		31b	110772
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	Total balance
35 Balances elected for use to offset funding requirement.....	0	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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Participants in Active Service by Age and Years of Credited Service as of January 1, 2022*

Age	Years of Service									
	Less than 1	1-4	5-9	10-14	15 - 19	20 - 24	25 – 29	30 - 34	35 - 39	40 & Over
Under 25	--	--	--	--	--	--	--	--	--	--
25 - 29	--	--	--	--	--	--	--	--	--	--
30 - 34	--	--	--	--	--	--	--	--	--	--
35 - 39	--	--	--	--	--	--	--	--	--	--
40 - 44	--	--	--	--	--	--	--	--	--	--
45 - 49	--	--	--	--	--	--	--	--	--	--
50 - 54	--	--	--	--	--	--	1	--	--	--
55 - 59	--	--	--	--	--	--	1	--	--	--
60 - 64	--	--	--	--	--	--	--	1	3	--
65 - 69	--	--	--	--	--	--	--	1	1	--
70 & Over	--	--	--	--	--	--	--	--	--	--

* Counts shown above include accruing actives only

Actuarial Assumptions and Methodologies

Certain assumptions are prescribed as noted below. The other assumptions are estimates derived from historical and recent experience as well as market observations, combined with professional judgment about future expectations. Segal's report as of December 2017 shows a recent analysis upon which these assumptions are based.

Interest:	<p>The interest rates used for the 2022 plan year are the 24-month average corporate bond segment rates for September 2021 (a 4-month lookback) subject to funding stabilization. Under stabilization, the interest rates used for funding purposes are calculated in the usual manner (24-month average corporate bond rates) but are then constrained to be within a corridor around a 25-year average of those same bond rates. Each of the three segments of the yield curve reflecting the 25-year average rates is constrained to be no less than 5%. For 2022, the stabilization corridor is 5%. It will remain at 5% through 2030 and then increase by 5% per year beginning in 2031 until it reaches 30% for 2035. The interest rate description above reflects that the plan sponsor elected to apply the ARPA provisions beginning with the 2022 plan year. The rates are as follows:</p> <table><tr><td></td><td>Payments in the First 5 Years</td><td>Payments in Years 6 – 20</td><td>Payments Thereafter</td><td>Effective Interest Rate</td></tr><tr><td>Current Year, reflecting stabilization (ARPA)</td><td>4.75%</td><td>5.18%</td><td>5.92%</td><td>5.37%</td></tr><tr><td>Current Year, without stabilization</td><td>1.07%</td><td>2.68%</td><td>3.36%</td><td>2.85%</td></tr><tr><td>Prior Year, reflecting stabilization (pre-ARPA)</td><td>3.32%</td><td>4.79%</td><td>5.47%</td><td>4.91%</td></tr><tr><td>Prior Year, without stabilization</td><td>2.22%</td><td>3.38%</td><td>3.92%</td><td>3.52%</td></tr></table> <p>The interest rates used to determine the PBGC variable-rate premium are the same as those used for funding, without reflecting funding stabilization. These interest rates are based on the plan sponsor’s election (an election that can currently be changed) and are subject to the constraints established by law.</p>						Payments in the First 5 Years	Payments in Years 6 – 20	Payments Thereafter	Effective Interest Rate	Current Year, reflecting stabilization (ARPA)	4.75%	5.18%	5.92%	5.37%	Current Year, without stabilization	1.07%	2.68%	3.36%	2.85%	Prior Year, reflecting stabilization (pre-ARPA)	3.32%	4.79%	5.47%	4.91%	Prior Year, without stabilization	2.22%	3.38%	3.92%	3.52%
	Payments in the First 5 Years	Payments in Years 6 – 20	Payments Thereafter	Effective Interest Rate																										
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Prior Year, without stabilization	2.22%	3.38%	3.92%	3.52%																										
Mortality Rates	RP-2006 combined employee and annuitant healthy mortality tables, projected using scale MP-2020. This assumption is one of the choices allowed by the regulations. This reflects an update to the mandated mortality projection assumption.																													
Benefit Election	Life annuity for unmarried participants. 60% joint and survivor for married participants. This assumption is based on historical and current data, adjusted to reflect estimated future experience and professional judgment.																													

Attachment to 2022 Schedule SB of Form 5500
Schedule SB, Part V – Statement of Actuarial Assumptions/Methods
EMCORE Space & Navigation Corporation Pension Plan
EIN 22-2746503 PN 001

**Sample
Termination
Rates**

Age	Male	Female
20	9.90%	14.90%
25	9.90	14.90
30	7.35	10.90
35	4.80	6.90
40	3.20	4.85
45	1.60	2.80
50	0.80	1.40
55	0.00	0.00
60	0.00	0.00

Termination rates were cut at the first eligibility for retirement

This assumption is based on historical and current data, adjusted to reflect estimated future experience and professional judgment.

**Sample
Disability Rates**

Age	Male	Female
20	0.09%	0.05%
25	0.09	0.05
30	0.12	0.09
35	0.15	0.13
40	0.24	0.22
45	0.33	0.30
50	0.64	0.53
55	0.94	0.76
60	1.36	0.93

Based on a review of the assumed rates compared to historical experience, in light of the plan provisions and professional judgment, these assumed rates reflect a reasonable expectation for the future.

Attachment to 2022 Schedule SB of Form 5500
Schedule SB, Part V – Statement of Actuarial Assumptions/Methods
EMCORE Space & Navigation Corporation Pension Plan
EIN 22-2746503 PN 001

Retirement (From Active Status) Rates	Age	Rates
	55	10%
	56 – 59	5
	60 – 61	15
	62 – 64	50
	65	25
	66 -69	20
	70	100
<p>In addition, rate of at least 30% is assumed for the first year of 30 years of credited service attainment.</p> <p>This assumption is based on historical and current data, adjusted to reflect estimated future experience and professional judgment.</p>		
Description of Weighted Average Retirement Age	Age 61, determined as follows: The individual weighted average retirement age is calculated as the sum of the product of each potential past or future retirement age times the probability of surviving to that age and then retiring at that age, assuming no other decrements.	
Retirement From Inactive Status	Age 65	
Percent Married	70% for male participants and 55% for female participants. Spouse is assumed to be the opposite gender.	
Age Difference	Male spouses are assumed to be three years older than female spouses.	
Administrative Expenses	<p>An expense assumption is required under the funding rules. Plan-related expenses of \$80,000 are expected to be paid by the plan during the year.</p> <p>This assumption is based on recent historical data, adjusted to reflect PBGC premium changes, input from the plan sponsor, and estimated future experience and professional judgment.</p>	
Asset Method	<p>As selected by the plan sponsor, assets are determined by averaging the market value as of the valuation date and the adjusted market values as of the preceding two years. The resulting value is limited to between 90% to 110% of market value of assets. The adjusted market values reflect cash flow and expected earnings to the valuation date. The expected earnings are based on an assumed rate of return of 7.75% for 2020 and 7.50% for 2021, not to exceed the applicable third segment rate of 5.94% for 2020 and 5.47% for 2021.</p>	

Attachment to 2022 Schedule SB of Form 5500
Schedule SB, Part V – Statement of Actuarial Assumptions/Methods
EMCORE Space & Navigation Corporation Pension Plan
EIN 22-2746503 PN 001

Funding Method	Funding method is unit credit actuarial cost method, as prescribed by law. The liability is measured on an accrual-to-date basis using mandated mortality tables and interest rates with no salary projection past the end of the year. If all assumptions are met (including the investment earnings implicitly assumed by the interest rate), funding the plan at the minimum required contribution level is generally designed to achieve a 100% funded status within fifteen years. Once that is achieved, or for overfunded plans, the required contribution will generally equal the target normal cost reduced by any overfunding.
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Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Our Actuarial Technology and Systems unit, comprising both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.

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 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

▶ **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 EMCORE Space & Navigation Corporation Pension Plan	B Three-digit plan number (PN) ▶ 002
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Emcore Corporation	D Employer Identification Number (EIN) 22-2746503
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 <u>01</u> Day <u>01</u> Year <u>2022</u>	
2 Assets:	
a Market value	2a 11,294,194
b Actuarial value	2b 10,423,336
3 Funding target/participant count breakdown	
a For retired participants and beneficiaries receiving payment	(1) Number of participants 42 (2) Vested Funding Target 4,893,986 (3) Total Funding Target 4,893,986
b For terminated vested participants	20 1,238,677 1,238,677
c For active participants	10 1,423,425 1,601,937
d Total	72 7,556,088 7,734,600
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 5.37%
6 Target normal cost	
a Present value of current plan year accruals	6a 30,772
b Expected plan-related expenses	6b 80,000
c Total (line 6a + line 6b)	6c 110,772

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	Aida Domlija <i>AD</i>	10/02/2024
	Signature of actuary	Date
AIDA DOMLIJA, FSA, MAAA		2306955
	Type or print name of actuary	Most recent enrollment number
SEGAL		212-251-5000
	Firm name	Telephone number (including area code)
333 W 34TH STREET		
NEW YORK NY 10001-2402		
	Address of the firm	

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) 2022
v. 220413

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	1,306,036
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	87,170
9	Amount remaining (line 7 minus line 8)	0	1,218,866
10	Interest on line 9 using prior year's actual return of <u>13.87</u> %	0	169,057
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>4.91</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	1,387,923

Part III		Funding Percentages	
14	Funding target attainment percentage	14	116.81 %
15	Adjusted funding target attainment percentage	15	134.76 %
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	100.30 %
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
Totals ▶			18(b)	0	18(c)
					0

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: 5.18 %	3rd segment: 5.92 %	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 4
22 Weighted average retirement age				22 61
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	110,772	
b Excess assets, if applicable, but not greater than line 31a	31b	110,772	
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	Total balance
35 Balances elected for use to offset funding requirement	0	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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Attachment to 2022 Schedule SB of Form 5500
Schedule SB, Line 22 – Description of Weighted Average Retirement Age
EMCORE Space & Navigation Corporation Pension Plan
EIN 22-2746503 PN 001

<u>Age</u>	<u>Rate</u>	<u>Probability of Retiring</u>	<u>Age x Probability</u>
55	10.00%	10.00%	5.50
56	5.00%	4.50%	2.52
57	5.00%	4.28%	2.44
58	5.00%	4.06%	2.36
59	5.00%	3.86%	2.28
60	15.00%	11.00%	6.60
61	15.00%	9.35%	5.70
62	50.00%	26.48%	16.42
63	50.00%	13.24%	8.34
64	50.00%	6.62%	4.24
65	25.00%	1.66%	1.08
66	20.00%	0.99%	0.66
67	20.00%	0.79%	0.53
68	20.00%	0.64%	0.43
69	20.00%	0.51%	0.35
70	100.00%	2.03%	1.42
Weighted Average			60.87

Attachment to 2022 Form 5500-SF

Explanation of Amended Filing

The plan number "001" is currently used by another plan under the Plan Sponsor. This amended filing reflects the new plan number "002."

Summary of Plan Provisions

This subsection summarizes the major provisions of the Plan as included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions.

Plan Status	Closed to new hires effective April 1, 2007. Employees hired prior to April 1, 2007 will receive ongoing accruals.											
Normal Retirement	<ul style="list-style-type: none">• <i>Age Requirement:</i> 65• <i>Service Requirement:</i> 5• <i>Amount:</i><table><tr><td><u>Period</u></td><td><u>Amount</u></td></tr><tr><td>April 1, 2007 through March 31, 2008</td><td>\$38 per month per year of credited service</td></tr><tr><td>April 1, 2008 through March 31, 2009</td><td>\$39 per month per year of credited service</td></tr><tr><td>April 1, 2009 through March 31, 2010</td><td>\$40 per month per year of credited service</td></tr><tr><td>April 1, 2010 and thereafter</td><td>\$41 per month per year of credited service</td></tr></table>		<u>Period</u>	<u>Amount</u>	April 1, 2007 through March 31, 2008	\$38 per month per year of credited service	April 1, 2008 through March 31, 2009	\$39 per month per year of credited service	April 1, 2009 through March 31, 2010	\$40 per month per year of credited service	April 1, 2010 and thereafter	\$41 per month per year of credited service
<u>Period</u>	<u>Amount</u>											
April 1, 2007 through March 31, 2008	\$38 per month per year of credited service											
April 1, 2008 through March 31, 2009	\$39 per month per year of credited service											
April 1, 2009 through March 31, 2010	\$40 per month per year of credited service											
April 1, 2010 and thereafter	\$41 per month per year of credited service											
Early Retirement	<ul style="list-style-type: none">• <i>Eligibility:</i> Any of the following:<ul style="list-style-type: none">a) Age 60 and 10 years of eligibility serviceb) Age 55 and 85 points (points are the sum of age and credited service)c) Attainment of 30 years of credited service• <i>Amount:</i> For retirements under (a) and (b) above for the period shown below:<table><tr><td><u>Period</u></td><td><u>Amount</u></td></tr><tr><td>April 1, 2007 through March 31, 2008</td><td>\$38 per month per year of credited service</td></tr><tr><td>April 1, 2008 through March 31, 2009</td><td>\$39 per month per year of credited service</td></tr><tr><td>April 1, 2009 through March 31, 2010</td><td>\$40 per month per year of credited service</td></tr><tr><td>April 1, 2010 and thereafter</td><td>\$41 per month per year of credited service</td></tr></table>		<u>Period</u>	<u>Amount</u>	April 1, 2007 through March 31, 2008	\$38 per month per year of credited service	April 1, 2008 through March 31, 2009	\$39 per month per year of credited service	April 1, 2009 through March 31, 2010	\$40 per month per year of credited service	April 1, 2010 and thereafter	\$41 per month per year of credited service
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Attachment to 2022 Schedule SB of Form 5500
Schedule SB, Part V – Summary of Plan Provisions
EMCORE Space & Navigation Corporation Pension Plan
EIN 22-2746503 PN 001

Early Retirement
(continued)

Multiplied by the following factor:

Benefit Commencement	Percentage	Benefit Commencement	Percentage
47	30.4%	55	57.9%
48	32.8	56	63.5
49	35.4	57	69.4
50	38.3	58	75.2
51	41.5	59	80.8
52	45.0	60	86.7
53	48.9	61	93.3
54	53.2	62	100.0

For retirement under (c) above: same as (a) or (b) except benefit increased to unreduced amount upon attainment of age 62.

Late Retirement

- *Amount:* Additional accruals to actual retirement date

Disability

- *Age Requirement:* None
- *Service Requirement:* 10 years of vesting service
- *Amount:* For disability retirements during the period shown below:

<u>Period</u>	<u>Amount</u>
April 1, 2007 through March 31, 2008	\$38 per month per year of credited service
April 1, 2008 through March 31, 2009	\$39 per month per year of credited service
April 1, 2009 through March 31, 2010	\$40 per month per year of credited service
April 1, 2010 and thereafter	\$41 per month per year of credited service

In addition, a Supplemental Allowance is payable until age 62 only if participant is not eligible to receive Social Security Disability Benefits.

Attachment to 2022 Schedule SB of Form 5500
Schedule SB, Part V – Summary of Plan Provisions
EMCORE Space & Navigation Corporation Pension Plan
EIN 22-2746503 PN 001

Supplemental Allowance

Payable until age 62 or age when 80% of the Social Security Benefit would be payable for those born between 1938 and 1942 (inclusive) to participants retiring with early retirement or disability pension.

- a) For participants retiring under “30 and out” provision, the amount payable is an amount such that the total benefit paid is \$2,800 per month.
- b) For participants retiring early but not under “30 and out” provision, the amount payable is based on the following:

Attained age at retirement	Additional benefit per year of credited service
55	\$18.70 per month
56	22.00
57	26.70
58	31.30
59	34.95
60	38.25
61	38.25

- c) For participants retiring with a disability pension, a “Temporary Benefit” of \$45.00 per month per year of credited service (up to 30 years). The “Temporary Benefit” is only payable if participant is not eligible for Social Security Disability Benefits.

Special Early Retirement

- *Eligibility:* All of the following:
 - a) 10 or more years of vesting service,
 - b) Age between 55 and 65
 - c) Participant has not been discharged for cause
 - d) Unusual circumstances result in EMCORE asking a participant to retire, and
 - e) The participant and EMCORE have agreed that the participant should retire with special benefits.
- *Amount:* The lifetime income benefit is unreduced for early retirement. A supplemental benefit of \$2,800 per month is payable until age 62 and 1 month (may have temporary benefit included) and a Medicare supplement of \$60 is payable at age 65.

Attachment to 2022 Schedule SB of Form 5500
Schedule SB, Part V – Summary of Plan Provisions
EMCORE Space & Navigation Corporation Pension Plan
EIN 22-2746503 PN 001

Special Medicare Part B Reimbursement Benefit	<p>This benefit is payable to participants retiring from active service with a retirement or disability pension, and to surviving spouses of such participants, as well as to surviving spouses of employees who die in active service.</p> <p>The benefit commences upon attainment of age 65, or receipt by the Board of proof of enrollment in Medicare Part B, whichever is later.</p> <p>\$60.00 for months commencing on or after February 1, 2003. In no event shall the benefit paid for a month exceed the generally applicable Medicare Part B premium for that month.</p>
Withdrawal Benefits	<ul style="list-style-type: none"> • <i>Service Requirement:</i> 5 years of vesting service (none for participants hired prior to January 1, 2000) • <i>Amount:</i> Accrued benefit payable at age 65. <p>Participant may also elect to commence payment any time after attainment of age 60, or any time after attainment of age 55 with 85 points (points measured using credited service), subject to a benefit reduction of 5/9 of 1% for each of the first 60 months by which the commencement date precedes age 65, plus 5/18 of 1% for each such month in excess of 60.</p> <p>If the actuarial equivalent lump sum amount of a deferred vested benefit is under \$5,000, this sum will be paid automatically.</p>
Death Benefits	<p>For deaths occurring in service, after attainment of eligibility to retire; an amount payable for the life of the surviving spouse equal to 60% of the benefit that would have been payable had the employee retired on the date of his death and elected the Survivorship Option.</p> <p><i>Survivorship Option:</i> Benefit otherwise payable to employees is reduced by 5%, with an additional reduction of 0.5% for each year in excess of 5 years up to 10 years by which the spouse's age is less than the employee's, and with an offsetting increase of 0.5% for each year in excess of 5 by which the spouse's age exceeds the employee's. Upon employee's death, spouse receives life income of 60% of benefit which was or would have been payable to employee when he was 65.</p>
Participants	<ul style="list-style-type: none"> • <i>Age Requirement:</i> None • <i>Service Requirement:</i> One year of service in which at least 1,000 hours worked. • <i>Eligibility Requirement:</i> Only employees hired before 4/1/2007 are eligible to participate.
Group Covered	<ul style="list-style-type: none"> • Employees who are members or UAW Local Union No. 153
Service	<ul style="list-style-type: none"> • <i>Vesting (eligibility):</i> Full year given for each calendar year in which at least 1,000 hours worked; otherwise no credit given. If eligibility service is less than credited service at retirement or termination, it shall be deemed equal to credited service. Participants hired prior to January 1, 2000 are fully vested as of that date. • <i>Credited:</i> One year for each calendar year of employment in which at least 1,700 hours worked. Ratable accrual (rounded to nearest twelfth of a year) given for calendar years in which under 1,700 hours worked.

Attachment to 2022 Schedule SB of Form 5500
Schedule SB, Part V – Summary of Plan Provisions
EMCORE Space & Navigation Corporation Pension Plan
EIN 22-2746503 PN 001

Forms of Benefit	<ul style="list-style-type: none">• <i>Normal Form:</i> Life annuity; 60% joint and survivor annuity for married participants. The benefit is calculated by reducing the amount payable under a single life annuity by 5%. An additional reduction is made in the amount of 0.5% per year, for each year in excess of five by which participant's birth date precedes that of the spouse. If the spouse is older, the benefit is increased by 0.5% per year, for each year in excess of five by which spouse's birthday precedes participant's birthday.• <i>Optional Form:</i> 75% joint and survivor annuity – The form is actuarially equivalent to life annuity. Actuarial equivalence is based on 9% interest rate and the 1971 Group Annuity Mortality Table for male lives.• <i>Lump Sum Benefits:</i> Benefits with a present value less than \$5,000 are automatically cashed out. An optional lump sum payment is available if the present value of the benefit is less than \$10,000.
Section 415(b) Limit	\$245,000 (previously, \$230,000)
Recent Plan Amendments	<p>The Plan has been restated as of January 1, 2020.</p> <ul style="list-style-type: none">• <i>Plan Amendment:</i> Number One• <i>Effective Date:</i> August 31, 2020• <i>Reflected in 2022 Actuarial Valuation:</i> Yes