

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

2024

This Form is Open to Public Inspection

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: [X] a single-employer plan [ ] a multiple-employer plan (not multiemployer) (Pension Plan filers checking this box must attach Schedule MEP. Other plans 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 the plan is a collectively-bargained plan, check here [ ]
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 RESEARCH AFFILIATES, LLC DEFINED BENEFIT PLAN
1b Three-digit plan number (PN) 002
1c Effective date of plan 02/01/2005
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) RESEARCH AFFILIATES, LLC
660 NEWPORT CENTER DR, STE 300 NEWPORT BEACH, CA 92660
2b Employer Identification Number (EIN) 02-0570299
2c Sponsor's telephone number 949-325-8700
2d Business code (see instructions) 523900
3a Plan administrator's name and address [X] Same as Plan Sponsor.
3b Administrator's EIN
3c Administrator's telephone number
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
5a Total number of participants at the beginning of the plan year 91
b Total number of participants at the end of the plan year 87
c(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)
c(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)
d(1) Total number of active participants at the beginning of the plan year 58
d(2) Total number of active participants at the end of the plan year 52
e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested 0

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.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, Enter name of individual signing as plan administrator. Row 1: Filed with authorized/valid electronic signature, 04/11/2025, JENNIFER A ARIAS. Row 2: Signature of employer/plan sponsor, Date, Enter name of individual signing as employer or plan sponsor.

- 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 543419. (See instructions.)

**Part III Financial Information**

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
<b>a</b> Total plan assets .....	<b>7a</b>	8318018	8441208
<b>b</b> Total plan liabilities .....	<b>7b</b>		
<b>c</b> Net plan assets (subtract line 7b from line 7a) .....	<b>7c</b>	8318018	8441208
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
<b>a</b> Contributions received or receivable from:			
(1) Employers .....	<b>8a(1)</b>		
(2) Participants .....	<b>8a(2)</b>		
(3) Others (including rollovers) .....	<b>8a(3)</b>		
<b>b</b> Other income (loss) .....	<b>8b</b>	302870	
<b>c</b> Total income (add lines 8a(1), 8a(2), 8a(3), and 8b) .....	<b>8c</b>		302870
<b>d</b> Benefits paid (including direct rollovers and insurance premiums to provide benefits) .....	<b>8d</b>	179680	
<b>e</b> Certain deemed and/or corrective distributions (see instructions) .	<b>8e</b>		
<b>f</b> Administrative service providers (salaries, fees, commissions) .....	<b>8f</b>		
<b>g</b> Other expenses .....	<b>8g</b>		
<b>h</b> Total expenses (add lines 8d, 8e, 8f, and 8g) .....	<b>8h</b>		179680
<b>i</b> Net income (loss) (subtract line 8h from line 8c) .....	<b>8i</b>		123190
<b>j</b> Transfers to (from) the plan (see instructions) .....	<b>8j</b>		

**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:  
1A 1C 3B
- 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
<b>a</b> 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) .....		X	
<b>b</b> Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.) .....		X	
<b>c</b> Was the plan covered by a fidelity bond? .....	X		5000000
<b>d</b> Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty? .....		X	
<b>e</b> 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.) .....		X	
<b>f</b> Has the plan failed to provide any benefit when due under the plan? .....		X	
<b>g</b> Did the plan have any participant loans? (If "Yes," enter amount as of year-end.) .....		X	
<b>h</b> If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.) .....			
<b>i</b> 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 .....			

**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? (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.  Yes  No

**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

**a** 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)

**Part VIII IRS Compliance Questions**

**14a** 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

**14b** 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

**15** 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 02 / 28 / 2023 (MM/DD/YYYY) and the Opinion Letter serial number Q705217A.

<b>SCHEDULE SB</b> <b>(Form 5500)</b>  <small>Department of the Treasury Internal Revenue Service</small>  <small>Department of Labor Employee Benefits Security Administration</small>  <small>Pension Benefit Guaranty Corporation</small>	<b>Single-Employer Defined Benefit Plan</b> <b>Actuarial Information</b>  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).  <b>▶ File as an attachment to Form 5500 or 5500-SF.</b>	<small>OMB No. 1210-0110</small>  <b>2024</b>  <b>This Form is Open to Public Inspection</b>
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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.

<b>A</b> Name of plan <u>RESEARCH AFFILIATES, LLC DEFINED BENEFIT PLAN</u>	<b>B</b> Three-digit plan number (PN) ▶	<u>002</u>
<b>C</b> Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>RESEARCH AFFILIATES, LLC</u>	<b>D</b> Employer Identification Number (EIN) <u>02-0570299</u>	
<b>E</b> Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B	<b>F</b> Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500	

**Part I Basic Information**

<b>1</b>	Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2024</u>		
<b>2</b>	Assets:		
	<b>a</b> Market value .....	<b>2a</b>	<u>8318018</u>
	<b>b</b> Actuarial value .....	<b>2b</b>	<u>8318018</u>
<b>3</b>	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	<b>a</b> For retired participants and beneficiaries receiving payment .....	<u>3</u>	<u>682877</u>
	<b>b</b> For terminated vested participants .....	<u>30</u>	<u>3639955</u>
	<b>c</b> For active participants .....	<u>58</u>	<u>5646583</u>
	<b>d</b> Total .....	<u>91</u>	<u>9969415</u>
<b>4</b>	If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>		
	<b>a</b> Funding target disregarding prescribed at-risk assumptions .....	<b>4a</b>	
	<b>b</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 .....	<b>4b</b>	
<b>5</b>	Effective interest rate .....	<b>5</b>	<u>5.08 %</u>
<b>6</b>	Target normal cost		
	<b>a</b> Present value of current plan year accruals .....	<b>6a</b>	<u>0</u>
	<b>b</b> Expected plan-related expenses .....	<b>6b</b>	<u>0</u>
	<b>c</b> Target normal cost .....	<b>6c</b>	<u>0</u>

**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.

<b>SIGN HERE</b>			
	Signature of actuary	<u>04/11/2025</u>	Date
	<u>WILLIAM N. CORNELL, EA, MAAA</u>	<u>23-06487</u>	Most recent enrollment number
	Type or print name of actuary	<u>971-321-8418</u>	Telephone number (including area code)
	<u>STANDARD RETIREMENT SERVICES, INC.</u>		
	Firm name		
	<u>P O BOX 711</u> <u>PORTLAND, OR 97207-0711</u>		
	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

<b>Part II Beginning of Year Carryover and Prefunding Balances</b>		(a) Carryover balance	(b) Prefunding balance
<b>7</b>	Balance at beginning of prior year after applicable adjustments (line 13 from prior year) .....	0	417700
<b>8</b>	Portion elected for use to offset prior year's funding requirement (line 35 from prior year) .....	0	133178
<b>9</b>	Amount remaining (line 7 minus line 8) .....	0	284522
<b>10</b>	Interest on line 9 using prior year's actual return of <u>8.40</u> % .....	0	23900
<b>11</b>	Prior year's excess contributions to be added to prefunding balance:		
	<b>a</b> Present value of excess contributions (line 38a from prior year) .....		0
	<b>b(1)</b> 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>5.23</u> % .....		0
	<b>b(2)</b> Interest on line 38b from prior year Schedule SB, using prior year's actual return .....		0
	<b>c</b> Total available at beginning of current plan year to add to prefunding balance .....		0
	<b>d</b> Portion of (c) to be added to prefunding balance .....		0
<b>12</b>	Other reductions in balances due to elections or deemed elections .....	0	0
<b>13</b>	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12) .....	0	308422

<b>Part III Funding Percentages</b>			
<b>14</b>	Funding target attainment percentage .....	<b>14</b>	80.21 %
<b>15</b>	Adjusted funding target attainment percentage .....	<b>15</b>	80.21 %
<b>16</b>	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement .....	<b>16</b>	84.46 %
<b>17</b>	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage .....	<b>17</b>	%

<b>Part IV Contributions and Liquidity Shortfalls</b>							
<b>18</b> 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		
			<b>Totals ▶</b>	<b>18(b)</b>	0	<b>18(c)</b>	0

<b>19</b>	Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:		
	<b>a</b> Contributions allocated toward unpaid minimum required contributions from prior years .....	<b>19a</b> 0	
	<b>b</b> Contributions made to avoid restrictions adjusted to valuation date .....	<b>19b</b> 0	
	<b>c</b> Contributions allocated toward minimum required contribution for current year adjusted to valuation date .....	<b>19c</b> 0	
<b>20</b>	Quarterly contributions and liquidity shortfalls:		
	<b>a</b> Did the plan have a "funding shortfall" for the prior year? .....	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<b>b</b> If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? .....	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<b>c</b> 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
0	0	0	0

<b>Part V Assumptions Used to Determine Funding Target and Target Normal Cost</b>				
<b>21</b> Discount rate:				
<b>a</b> Segment rates:	1st segment: 4.75 %	2nd segment: 4.87 %	3rd segment: 5.59 %	<input type="checkbox"/> N/A, full yield curve used
<b>b</b> Applicable month (enter code) .....				<b>21b</b> 4
<b>22</b> Weighted average retirement age .....				<b>22</b> 63
<b>23</b> Mortality table(s) (see instructions)	<input checked="" type="checkbox"/> Prescribed - combined	<input type="checkbox"/> Prescribed - separate	<input type="checkbox"/> Substitute	

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

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

<b>Part VIII Minimum Required Contribution For Current Year</b>				
<b>31</b> Target normal cost and excess assets (see instructions):				
<b>a</b> Target normal cost (line 6c) .....				<b>31a</b> 0
<b>b</b> Excess assets, if applicable, but not greater than line 31a .....				<b>31b</b> 0
<b>32</b> Amortization installments:	Outstanding Balance		Installment	
<b>a</b> Net shortfall amortization installment .....	1975260		185937	
<b>b</b> Waiver amortization installment.....	0		0	
<b>33</b> 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 .....				<b>33</b>
<b>34</b> Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....				<b>34</b> 185937
	Carryover balance	Prefunding balance	Total balance	
<b>35</b> Balances elected for use to offset funding requirement .....	185937		185937	
<b>36</b> Additional cash requirement (line 34 minus line 35) .....				<b>36</b> 0
<b>37</b> Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c) .....				<b>37</b> 0
<b>38</b> Present value of excess contributions for current year (see instructions)				
<b>a</b> Total (excess, if any, of line 37 over line 36)				<b>38a</b> 0
<b>b</b> Portion included in line 38a attributable to use of prefunding and funding standard carryover balances.....				<b>38b</b>
<b>39</b> Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37) .....				<b>39</b> 0
<b>40</b> Unpaid minimum required contributions for all years .....				<b>40</b> 0

<b>Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)</b>				
<b>41</b> 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. <input type="checkbox"/> 2019 <input type="checkbox"/> 2020 <input type="checkbox"/> 2021				

# Research Affiliates, LLC

## Defined Benefit Plan

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### Appendix C – Other Attachments to Schedule SB of Form 5500

*For attachment to 2024 Schedule SB, Line 22 – Description of Weighted Average Retirement Age  
EIN 02-0570299 / PN 002*

#### Weighted Average Retirement Age

Age	Estimated Plan Participants	Percentage Expected to Retire	Number Expected to Retire	Weighted Factor
62	100.00	80%	80.00	4,960.00
63	20.00	2%	0.40	25.20
64	19.60	2%	0.39	25.09
65	19.21	10%	1.92	124.85
66	17.29	5%	0.86	57.05
67	16.42	5%	0.82	55.02
68	15.60	5%	0.78	53.05
69	14.82	5%	0.74	51.13
70	14.08	100%	14.09	985.64
			100.00	6,337.02
		<b>Weighted Average Retirement Age:</b>		<b>63.37</b>

# Research Affiliates, LLC

## Defined Benefit Plan

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### Appendix B – Summary of Actuarial Assumptions and Methods

*For attachment to 2024 Schedule SB, Part V – Actuarial Assumptions and Methods  
EIN 02-0570299 / PN 002*

<b>Actuarial Value of Assets:</b>	Market Value Method.	
<b>Turnover:</b>	Society of Actuaries 2003 Small Plan Age Table.	
	Age	Rate
	25	19.5%
	40	9.4%
	55	4.2%
<b>Retirement:</b>	Age	Rate
	62	80%
	63	2%
	64	2%
	65	10%
	66	5%
	67	5%
	68	5%
	69	5%
	70	100%
<b>Disability Incidence:</b>	None.	
<b>Salary Scale (compounded annually):</b>	N/A	
<b>Interest Crediting Rate:</b>	4.4825% interest crediting for 2024.	
<b>Assumed Form of Payment:</b>	Upon termination of employment, 40% of active participants are assumed to elect an immediate lump sum and 60% are assumed to defer election of a lump sum to normal retirement age. Among the population of participants previously separated from service, 20% are assumed to elect an immediate lump sum and 80% are assumed to defer a lump sum to normal retirement age.	
<b>Lump Sum Valuation Method:</b>	Equal to cash balance account.	
<b>Marital Status:</b>	100% married with husbands 3 years older than wives.	
<b>Expenses:</b>	None.	
<b>Plan Benefits Not Considered:</b>	None.	

## Research Affiliates, LLC

### Defined Benefit Plan

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#### Appendix B – Summary of Actuarial Assumptions and Methods (cont.)

##### Funding Assumptions

<b>Funding Target Discount Rates:</b>	<i>For Min. Required (ARPA)</i>	<i>For Maximum Deductible</i>	<i>For PBGC Premiums</i>
<b>Years 0 to 5:</b>	4.75%	3.62%	3.62%
<b>Years 6 to 20:</b>	4.87%	4.46%	4.46%
<b>Years 21 on:</b>	5.59%	4.52%	4.52%

**Pre-Retirement Mortality Table:** None.

**Post-Retirement Mortality Table:** IRS 2024 Small Plan Combined Static Mortality Table (dynamic).

**Changes since the Prior Year:** The mortality tables and segment rates were updated as per IRS regulations. Interest Crediting rate has been updated from 3.69% to 4.4825% in 2024.

##### Accounting Assumptions

**ASC 960 Discount Rate:** 5.00%

**ASC 960 Mortality Table:** Pre-Retirement None, Post-Retirement Pri-2012 with projection scale MP-2021.

**Changes since the Prior Year:** Interest Crediting rate has been updated from 3.69% to 4.4825% in 2024.

# Research Affiliates, LLC

## Defined Benefit Plan

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### Appendix A – Summary of Principal Plan Provisions

*For attachment to 2024 Schedule SB, Part V – Summary of Plan Provisions  
EIN 02-0570299 / PN 002*

<b>Original Effective Date:</b>	February 1, 2005.
<b>Last Restatement:</b>	January 1, 2010, with a restated plan document executed on July 23, 2020.
<b>Subsequent Amendments:</b>	Effective January 1, 2023, the contribution credit percentage was set to zero, thus freezing benefit accruals.
<b>Participation:</b>	<p>Employees are eligible to enter the plan on the January 1 or July 1 next following the completion of one year of employment and attainment of age 21.</p> <p>Effective November 1, 2009, part-time, temporary, and seasonal employees whose regularly scheduled service is less than 1,000 hours of service are excluded. Notwithstanding this exclusion, if any actually completes 1,000 hours of service, then they will enter the plan on the next entry date following completion of the year of service provided that the employee is employed by the employer on that entry date.</p>
<b>Benefit Service:</b>	Employees will accrue benefits if they work at least 1,000 hours during the year. Effective January 1, 2023, benefit accruals are zero.
<b>Vesting Service:</b>	Prior to January 1, 2010, the sum of the plan years during which a participant has at least 1,000 hours of service. Effective January 1, 2010, the vesting credit will be based on elapsed time.
<b>Normal Retirement Date:</b>	Normal retirement is the first of the month coincident with or following attainment of age 62 with five years of participation.
<b>Early Retirement Date:</b>	None provided.
<b>Eligible Compensation:</b>	<p>Prior to November 1, 2008, eligible compensation used to determine benefits will be based on the participant's total compensation reduced by bonuses and post-severance pay.</p> <p>Effective November 1, 2008, eligible compensation will exclude all bonuses, overtime pay, unused sick leave or vacation pay, and all other sources of pay that are not otherwise included in a participant's base pay.</p>
<b>Normal Retirement Benefit:</b>	Prior to January 1, 2008, the normal retirement benefit was equal to 8.1% of average monthly compensation multiplied by the lesser of total years of participation or 10.

# Research Affiliates, LLC

## Defined Benefit Plan

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### Appendix A - Summary of Plan Provisions (cont.)

#### Normal Retirement Benefit (cont.):

Effective January 1, 2008, the prior benefit was converted to a cash balance account. This initial sum and future contribution additions will accumulate interest credits at the rate of 5.5% per year. If the participant works at least 1,000 hours during the year, a contribution credit equaled to 25% of eligible compensation is earned.

Effective January 1, 2009, if the participant works at least 1,000 hours during the plan year, a contribution credit of 10% of eligible compensation is earned. The interest crediting rate will be an average of the 10-year Treasury rate for the last business day of August, September, October, and November prior to the plan year.

Effective June 1, 2020, if the participant works at least 1,000 hours during the plan year, a contribution credit of 5% of eligible compensation is earned. The interest crediting rate will be an average of the 10-year Treasury rate for the last business day of August, September, October, and November prior to the plan year.

Effective January 1, 2023, the contribution credit of 0% of eligible compensation is earned.

In no event will the normal retirement benefit be less than the benefit earned prior to January 1, 2008, when the plan was converted to cash balance.

#### Termination Benefit:

The amount of this benefit will be equal to his normal retirement benefit earned on the basis of service to date multiplied by the appropriate vested percentage from the following tables.

Prior to January 1, 2010:

<u>Years of Service</u>	<u>Vested Interest</u>
less than 2	0%
2 or more	100%

Effective January 1, 2010:

<u>Years of Service</u>	<u>Vested Interest</u>
less than 3	0%
3 or more	100%

An actively employed participant shall be 100% vested upon attainment of normal retirement age.

## Research Affiliates, LLC

### Defined Benefit Plan

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#### Appendix A - Summary of Plan Provisions (cont.)

<b>Normal Form of Benefit:</b>	The normal annuity form is a straight life annuity equal to the participant's cash balance account divided by an annuity conversion factor.
<b>Optional Benefit Forms:</b>	Any of the following alternate forms of benefit are available upon retirement. <ul style="list-style-type: none"><li>• Lump sum equal to the cash balance account</li><li>• Certain-only period annuity</li><li>• 100%, 75%, or 50% joint &amp; survivor annuity</li></ul>
<b>Death Benefits (Pre-Retirement):</b>	<p>Prior to December 1, 2013, if a participant was married and died prior to the time his benefit payments commence, a death benefit equal to the participant's cash balance account was payable. If the participant was not married, there was no death benefit available.</p> <p>Effective December 1, 2013, the plan was amended to provide death benefits to unmarried participants.</p>
<b>Death Benefits (Post-Retirement):</b>	None except as provided by the annuity form elected.
<b>Changes Since Last Year:</b>	None.

# Research Affiliates, LLC

## Defined Benefit Plan

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### Appendix C – Other Attachments to Schedule SB of Form 5500

For attachment to 2024 Schedule SB, Line 26 – Schedule of Active Participant Data  
EIN 02-0570299 / PN 002

#### Active Participant Age/Service Distribution

Age	Years of Credit Service										Total
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>40	
<25		2									2
25-29		6									6
30-34		3	1								4
35-39		4	4								8
40-44		1	5	4	1						11
45-49		4	3	4							11
50-54		4	2	2							8
55-59			1	2	1						4
60-64				2							2
65-69						1					1
>70				1							1
Total	0	24	16	15	2	1	0	0	0	0	58

# Research Affiliates, LLC

## Defined Benefit Plan

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### Appendix C – Other Attachments to Schedule SB of Form 5500

*For attachment to 2024 Schedule SB, Line 32 – Schedule of Amortization Bases  
EIN 02-0570299 / PN 002*

#### Shortfall Amortization Bases

<b>Date Established</b>	<b>Type of Base</b>	<b>Amortization Amount</b>	<b>Years Remaining</b>	<b>Present Value of Installments</b>
01/01/2024	Shortfall	\$52,759	15	\$579,890
01/01/2023	Shortfall	133,178	14	1,395,370
		<b>\$185,937</b>		<b>\$1,975,260</b>

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

2024

This Form is Open to Public Inspection

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: [X] a single-employer plan [ ] a multiple-employer plan (not multiemployer)
B This return/report is [ ] the first return/report [ ] the final return/report
C Check box if filing under: [ ] Form 5558 [ ] automatic extension [ ] DFVC program
D If the plan is a collectively-bargained plan, check here [ ]
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 RESEARCH AFFILIATES, LLC DEFINED BENEFIT PLAN
1b Three-digit plan number (PN) 002
1c Effective date of plan 02/01/2005
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) RESEARCH AFFILIATES, LLC
660 NEWPORT CENTER DR, STE 300 NEWPORT BEACH CA 92660
2b Employer Identification Number (EIN) 02-0570299
2c Sponsor's telephone number (949) 325-8700
2d Business code (see instructions) 523900
3a Plan administrator's name and address [X] Same as Plan Sponsor.
3b Administrator's EIN
3c Administrator's telephone number
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
5a Total number of participants at the beginning of the plan year 91
b Total number of participants at the end of the plan year 87
c(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)
c(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)
d(1) Total number of active participants at the beginning of the plan year 58
d(2) Total number of active participants at the end of the plan year 52
e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested 0

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.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, Enter name of individual signing as plan administrator. Includes signature of Jennifer A Arias dated 4/11/2025.

- 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 543419. (See instructions.)

<b>Part III Financial Information</b>			
<b>7</b>		<b>(a) Beginning of Year</b>	<b>(b) End of Year</b>
<b>7</b>	Plan Assets and Liabilities		
<b>a</b>	Total plan assets .....	7a 8,318,018	8,441,208
<b>b</b>	Total plan liabilities .....	7b	
<b>c</b>	Net plan assets (subtract line 7b from line 7a) .....	7c 8,318,018	8,441,208
<b>8</b>		<b>(a) Amount</b>	<b>(b) Total</b>
<b>a</b>	Contributions received or receivable from:		
	(1) Employers .....	8a(1)	
	(2) Participants.....	8a(2)	
	(3) Others (including rollovers).....	8a(3)	
<b>b</b>	Other income (loss) .....	8b 302,870	
<b>c</b>	Total income (add lines 8a(1), 8a(2), 8a(3), and 8b) .....	8c	302,870
<b>d</b>	Benefits paid (including direct rollovers and insurance premiums to provide benefits).....	8d 179,680	
<b>e</b>	Certain deemed and/or corrective distributions (see instructions) .	8e	
<b>f</b>	Administrative service providers (salaries, fees, commissions).....	8f	
<b>g</b>	Other expenses .....	8g	
<b>h</b>	Total expenses (add lines 8d, 8e, 8f, and 8g) .....	8h	179,680
<b>i</b>	Net income (loss) (subtract line 8h from line 8c) .....	8i	123,190
<b>j</b>	Transfers to (from) the plan (see instructions).....	8j	

<b>Part IV Plan Characteristics</b>	
<b>9a</b>	If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions: 1A 1C 3B
<b>b</b>	If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

<b>Part V Compliance Questions</b>				
<b>10</b>		<b>Yes</b>	<b>No</b>	<b>Amount</b>
<b>a</b>	During the plan year: 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) .....	10a	X	
<b>b</b>	Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.) .....	10b	X	
<b>c</b>	Was the plan covered by a fidelity bond? .....	10c	X	5,000,000
<b>d</b>	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	
<b>e</b>	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	
<b>f</b>	Has the plan failed to provide any benefit when due under the plan? .....	10f	X	
<b>g</b>	Did the plan have any participant loans? (If "Yes," enter amount as of year-end.) .....	10g	X	
<b>h</b>	If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.) .....	10h		
<b>i</b>	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

**a** 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.)

<b>13c(1)</b> Name of plan(s):	<b>13c(2)</b> EIN(s)	<b>13c(3)</b> PN(s)

**Part VIII IRS Compliance Questions**

**14a** 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

**14b** 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

**15** 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 02/28/2023 (MM/DD/YYYY) and the Opinion Letter serial number Q705217a.

<b>SCHEDULE SB</b> <b>(Form 5500)</b>  <small>Department of the Treasury Internal Revenue Service</small>  <small>Department of Labor Employee Benefits Security Administration</small>  <small>Pension Benefit Guaranty Corporation</small>	<b>Single-Employer Defined Benefit Plan</b> <b>Actuarial Information</b>  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).  <b>▶ File as an attachment to Form 5500 or 5500-SF.</b>	<small>OMB No. 1210-0110</small>  <b>2024</b>  <b>This Form is Open to Public Inspection</b>
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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.

<b>A</b> Name of plan RESEARCH AFFILIATES, LLC DEFINED BENEFIT PLAN	<b>B</b> Three-digit plan number (PN) ▶	002
<b>C</b> Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF RESEARCH AFFILIATES, LLC	<b>D</b> Employer Identification Number (EIN)  02-0570299	
<b>E</b> Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B	<b>F</b> Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500	

**Part I Basic Information**

<b>1</b>	Enter the valuation date: Month <u>1</u> Day <u>1</u> Year <u>2024</u>		
<b>2</b>	Assets:		
	<b>a</b> Market value .....	<b>2a</b>	8,318,018
	<b>b</b> Actuarial value .....	<b>2b</b>	8,318,018
<b>3</b>	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	<b>a</b> For retired participants and beneficiaries receiving payment .....	3	682,877
	<b>b</b> For terminated vested participants .....	30	3,639,955
	<b>c</b> For active participants .....	58	5,646,583
	<b>d</b> Total .....	91	9,969,415
<b>4</b>	If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>		
	<b>a</b> Funding target disregarding prescribed at-risk assumptions .....	<b>4a</b>	
	<b>b</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 .....	<b>4b</b>	
<b>5</b>	Effective interest rate .....	<b>5</b>	5.08 %
<b>6</b>	Target normal cost .....		
	<b>a</b> Present value of current plan year accruals .....	<b>6a</b>	0
	<b>b</b> Expected plan-related expenses .....	<b>6b</b>	0
	<b>c</b> Target normal cost .....	<b>6c</b>	0

**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.

<b>SIGN HERE</b>	 Signature of actuary  WILLIAM N. CORNELL, EA, MAAA Type or print name of actuary  STANDARD RETIREMENT SERVICES, INC. Firm name  P O BOX 711  PORTLAND OR 97207-0711 Address of the firm	April 11, 2025 Date  23-06487 Most recent enrollment number  (971) 321-8418 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

<b>Part II</b>	<b>Beginning of Year Carryover and Prefunding Balances</b>	
	(a) Carryover balance	(b) Prefunding balance
<b>7</b> Balance at beginning of prior year after applicable adjustments (line 13 from prior year) .....	0	417,700
<b>8</b> Portion elected for use to offset prior year's funding requirement (line 35 from prior year) .....	0	133,178
<b>9</b> Amount remaining (line 7 minus line 8) .....	0	284,522
<b>10</b> Interest on line 9 using prior year's actual return of <u>8.40</u> % .....	0	23,900
<b>11</b> Prior year's excess contributions to be added to prefunding balance:		
<b>a</b> Present value of excess contributions (line 38a from prior year) .....		0
<b>b(1)</b> 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>5.23</u> % .....		0
<b>b(2)</b> Interest on line 38b from prior year Schedule SB, using prior year's actual return .....		0
<b>c</b> Total available at beginning of current plan year to add to prefunding balance .....		0
<b>d</b> Portion of (c) to be added to prefunding balance .....		0
<b>12</b> Other reductions in balances due to elections or deemed elections .....	0	0
<b>13</b> Balance at beginning of current year (line 9 + line 10 + line 11d – line 12) .....	0	308,422

<b>Part III</b>	<b>Funding Percentages</b>	
<b>14</b> Funding target attainment percentage .....	<b>14</b>	80.21%
<b>15</b> Adjusted funding target attainment percentage .....	<b>15</b>	80.21%
<b>16</b> Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement .....	<b>16</b>	84.46%
<b>17</b> If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage .....	<b>17</b>	%

<b>Part IV</b>	<b>Contributions and Liquidity Shortfalls</b>						
<b>18</b> 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	
<b>Totals ▶</b>				<b>18(b)</b>	0	<b>18(c)</b>	0

<b>19</b> Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:			
<b>a</b> Contributions allocated toward unpaid minimum required contributions from prior years .....	<b>19a</b> 0		
<b>b</b> Contributions made to avoid restrictions adjusted to valuation date .....	<b>19b</b> 0		
<b>c</b> Contributions allocated toward minimum required contribution for current year adjusted to valuation date .....	<b>19c</b> 0		
<b>20</b> Quarterly contributions and liquidity shortfalls:			
<b>a</b> Did the plan have a "funding shortfall" for the prior year? .....	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>b</b> If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? .....	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>c</b> 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
0	0	0	0

<b>Part V Assumptions Used to Determine Funding Target and Target Normal Cost</b>				
<b>21</b> Discount rate:				
<b>a</b> Segment rates:	1st segment: 4.75 %	2nd segment: 4.87 %	3rd segment: 5.59 %	<input type="checkbox"/> N/A, full yield curve used
<b>b</b> Applicable month (enter code) .....				<b>21b</b> 4
<b>22</b> Weighted average retirement age .....				<b>22</b> 63
<b>23</b> Mortality table(s) (see instructions) <input checked="" type="checkbox"/> Prescribed - combined <input type="checkbox"/> Prescribed - separate <input type="checkbox"/> Substitute				

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

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

<b>Part VIII Minimum Required Contribution For Current Year</b>				
<b>31</b> Target normal cost and excess assets (see instructions):				
<b>a</b> Target normal cost (line 6c) .....				<b>31a</b> 0
<b>b</b> Excess assets, if applicable, but not greater than line 31a .....				<b>31b</b> 0
<b>32</b> Amortization installments:	Outstanding Balance		Installment	
<b>a</b> Net shortfall amortization installment .....	1,975,260		185,937	
<b>b</b> Waiver amortization installment .....	0		0	
<b>33</b> 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 .....				<b>33</b>
<b>34</b> Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....				<b>34</b> 185,937
	Carryover balance	Prefunding balance	Total balance	
<b>35</b> Balances elected for use to offset funding requirement .....	185,937		185,937	
<b>36</b> Additional cash requirement (line 34 minus line 35) .....				<b>36</b> 0
<b>37</b> Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c) .....				<b>37</b> 0
<b>38</b> Present value of excess contributions for current year (see instructions)				
<b>a</b> Total (excess, if any, of line 37 over line 36)				<b>38a</b> 0
<b>b</b> Portion included in line 38a attributable to use of prefunding and funding standard carryover balances.....				<b>38b</b>
<b>39</b> Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37) .....				<b>39</b> 0
<b>40</b> Unpaid minimum required contributions for all years .....				<b>40</b> 0

<b>Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)</b>				
<b>41</b> 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. <input type="checkbox"/> 2019 <input type="checkbox"/> 2020 <input type="checkbox"/> 2021				