

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

2023

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 11/15/2023

- A** This return/report is for: 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 <u>PENSION PLAN FOR THE EMPLOYEES OF APPALACHIAN ELECTRONIC INSTRUMENTS, INC.</u>	1b Three-digit plan number (PN) ▶	<u>001</u>
	1c Effective date of plan	<u>01/01/1971</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>APPALACHIAN ELECTRONIC INSTRUMENTS, INC.</u> <u>428 AEI DRIVE</u> <u>LEWISBURG, WV 24901</u>	2b Employer Identification Number (EIN)	<u>55-0384909</u>
	2c Sponsor's telephone number	<u>304-647-5855</u>
	2d Business code (see instructions)	<u>335900</u>
3a Plan administrator's name and address <input checked="" type="checkbox"/> 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	5a	<u>30</u>
b Total number of participants at the end of the plan year.....	5b	<u>0</u>
c(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)	5c(1)	<u>0</u>
c(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	5c(2)	<u>0</u>
d(1) Total number of active participants at the beginning of the plan year.....	5d(1)	<u>0</u>
d(2) Total number of active participants at the end of the plan year.....	5d(2)	<u>0</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	<u>Filed with authorized/valid electronic signature.</u>	<u>06/26/2024</u>	<u>JOE WARREN</u>
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	<u>Filed with authorized/valid electronic signature.</u>	<u>06/26/2024</u>	<u>JOE WARREN</u>
	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 527607. (See instructions.)

Part III Financial Information			
7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	2956956	0
b Total plan liabilities	7b	0	0
c Net plan assets (subtract line 7b from line 7a)	7c	2956956	0
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers	8a(1)	109167	
(2) Participants.....	8a(2)		
(3) Others (including rollovers)	8a(3)	0	
b Other income (loss).....	8b	-2011728	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b).....	8c		-1902561
d Benefits paid (including direct rollovers and insurance premiums to provide benefits).....	8d	907344	
e Certain deemed and/or corrective distributions (see instructions) .	8e	0	
f Administrative service providers (salaries, fees, commissions)	8f	62027	
g Other expenses	8g	85024	
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		1054395
i Net income (loss) (subtract line 8h from line 8c).....	8i		-2956956
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: 1A 1H 1I 3D
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? Continue to answer "Yes" for any prior year failures until fully corrected. (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	0
c Was the plan covered by a fidelity bond?	10c	X		400000
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		7099
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

a If "Yes," enter the amount of any plan assets that reverted to the employer this year. **13a** 0

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 Q705206A.

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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.	<small>OMB No. 1210-0110</small> 2023 This Form is Open to Public Inspection
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For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 11/15/2023

▶ **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 <u>PENSION PLAN FOR THE EMPLOYEES OF APPALACHIAN ELECTRONIC INSTRUMENTS, INC.</u>	B Three-digit plan number (PN) ▶	<u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>APPALACHIAN ELECTRONIC INSTRUMENTS, INC.</u>	D Employer Identification Number (EIN) <u>55-0384909</u>	
E Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B	F 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

1	Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2023</u>		
2	Assets:		
	a Market value	2a	<u>2956956</u>
	b Actuarial value	2b	<u>3252651</u>
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment	<u>44</u>	<u>2918617</u>
	b For terminated vested participants	<u>17</u>	<u>497246</u>
	c For active participants	<u>13</u>	<u>208191</u>
	d Total	<u>74</u>	<u>3624054</u>
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	<u>5.13 %</u>
6	Target normal cost		
	a Present value of current plan year accruals	6a	<u>0</u>
	b Expected plan-related expenses	6b	<u>104000</u>
	c Target normal cost	6c	<u>104000</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.

SIGN HERE		
	Signature of actuary	<u>01/17/2024</u> Date
	<u>SUSAN N. MASON</u> Type or print name of actuary	<u>23-08112</u> Most recent enrollment number
	<u>PRINCIPAL FINANCIAL GROUP</u> Firm name	<u>412-394-9301</u> Telephone number (including area code)
	<u>PO BOX 9394</u> <u>DES MOINES, IA 50306-9394</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

Part V Assumptions Used to Determine Funding Target and Target Normal Cost				
21 Discount rate:				
a Segment rates:	1st segment: 4.75 %	2nd segment: 5.00 %	3rd segment: 5.74 %	<input type="checkbox"/> N/A, full yield curve used
b Applicable month (enter code).....				21b 4
22 Weighted average retirement age				22 67
23 Mortality table(s) (see instructions)	<input type="checkbox"/> Prescribed - combined	<input checked="" type="checkbox"/> Prescribed - separate	<input type="checkbox"/> 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..... <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
25 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				
26 Demographic and benefit information				
a 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 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				
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 104000
b Excess assets, if applicable, but not greater than line 31a				31b 0
32 Amortization installments:	Outstanding Balance		Installment	
a Net shortfall amortization installment	371403		1211	
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 105211
	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 105211
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....				37 105340
38 Present value of excess contributions for current year (see instructions)				
a Total (excess, if any, of line 37 over line 36)				38a 129
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. <input type="checkbox"/> 2019 <input type="checkbox"/> 2020 <input checked="" type="checkbox"/> 2021				

Schedule SB, Line 26A - Schedule of Active Participant Data
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

Form 5500 - Schedule of Active Participation Data											Valuation Date 01/01/2023										
YEARS OF CREDITED SERVICE																					
Attained Age	Under 1		1 to 4		5 to 9		10 to 14		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39		40 & up		
	No.	Avg. Comp.	No.	Avg. Comp.	No.	Avg. Comp.	No.	Avg. Comp.	No.	Avg. Comp.	No.	Avg. Comp.	No.	Avg. Comp.	No.	Avg. Comp.	No.	Avg. Comp.	No.	Avg. Comp.	
Under 25	0		0		0		0		0		0		0		0		0		0		0
25 to 29	0		0		0		0		0		0		0		0		0		0		0
30 to 34	0		0		0		0		0		0		0		0		0		0		0
35 to 39	0		0		0		0		0		0		0		0		0		0		0
40 to 44	0		0		0		0		0		0		0		0		0		0		0
45 to 49	0		0		0		0		0		0		0		0		0		0		0
50 to 54	0		0		0		1		0		0		0		0		0		0		0
55 to 59	0		0		1		1		0		0		0		0		0		0		0
60 to 64	0		1		1		1		0		0		1		0		0		0		0
65 to 69	0		0		1		0		0		2		1		0		0		0		0
70 & up	0		0		0		1		0		0		0		1		0		0		0

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

Assumptions prescribed by law

Mortality Before benefit payment period
IRS Prescribed Mortality - Static Non-annuitant, male and female.
During benefit payment period
IRS Prescribed Mortality - Static Annuitant, male and female.

Assumptions selected by actuary

Asset return 2.40% for the current plan year.
The asset return is developed as a weighted average rate based on the target asset allocation of the plan and the long-term capital market assumptions. The calculated return is on an arithmetic mean basis. For details, see the Long-Term Capital Market Assumptions link.

Expected expense The expected expense included in target normal cost is an estimate based on prior year expenses paid from plan assets, with an updated estimate of PBGC premiums. This is the best estimate available of upcoming year's expenses.

Retirement Active and inactive participants are assumed to retire at normal retirement age as defined in [Plan provisions](#).
This assumption is based on the results of recent experience analysis and anticipated future experience.

Disability None.
This assumption is based on the assumption selected by prior actuary. We believe this assumption is reasonable with the plan's design and we will continue to monitor and make appropriate adjustments.

Marriage 80% married; husbands are 0 years older than wives.
This assumption is based on the assumption selected by prior actuary. We believe this assumption is reasonable with the plan's design and we will continue to monitor and make appropriate adjustments.

Withdrawal Table selected by Stanley, Hunt, DuPree & Rhine.

Selected rates of withdrawal are shown below:

Age	Rate of withdrawal	
	Male	Female
25	11.60%	13.66%
40	4.99%	5.53%
55	0.00%	0.00%

This is based on the assumption selected by your prior actuary. We believe this assumption is reasonable with the plan's design and we will continue to monitor and make appropriate adjustments.

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

Form of benefit	<p>Active participants are assumed to receive benefits in the following form:</p> <ul style="list-style-type: none">60% normal form30% 100% joint & survivor annuity10% 50% joint & survivor annuity <p>Inactive participants are assumed to receive their benefits on the normal form at the assumed retirement age.</p> <p>This is based on the assumption selected by your prior actuary. We believe this assumption is reasonable with the plan's design and we will continue to monitor and make appropriate adjustments.</p>
Methods prescribed by law	
Liability measure	<p>Funding target is the present value of the benefits accrued on the valuation date. Target normal cost is based on benefits expected to accrue during the current plan year and includes an estimate of plan expenses for the year.</p>
Benefit accrual	<p>All benefits paid at decrement are considered in total and then split to determine how much is included in funding target. The following pieces are included in the funding target.</p> <ul style="list-style-type: none">The portion based on the plan's definition of accrued benefit.The benefit portion in excess of the accrued benefit based on the ratio of the participant's years of service on the valuation date to the years of service the participant will have at the time of decrement. <p>The benefits included in target normal cost are calculated similarly, by splitting the benefits. The target normal cost is based on the difference between the amount included in Funding Target and an amount calculated assuming the participant accrues service through the end of the plan year.</p>

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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.	<small>OMB No. 1210-0110</small> 2023 This Form is Open to Public Inspection
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For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 11/15/2023


▶ **Round off amounts to nearest dollar.**
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A Name of plan <u>Pension Plan For The Employees of Appalachian Electronic Instruments, Inc.</u>	B Three-digit plan number (PN) ▶	<u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>Appalachian Electronic Instruments, Inc.</u>	D Employer Identification Number (EIN) <u>55-0384909</u>	
E Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B	F 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

1	Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2023</u>		
2	Assets:		
	a Market value	2a	<u>2956956</u>
	b Actuarial value	2b	<u>3252651</u>
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment	<u>44</u>	<u>2918617</u>
	b For terminated vested participants	<u>17</u>	<u>497246</u>
	c For active participants	<u>13</u>	<u>208191</u>
	d Total	<u>74</u>	<u>3624054</u>
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	<u>5.13 %</u>
6	Target normal cost		
	a Present value of current plan year accruals	6a	<u>0</u>
	b Expected plan-related expenses	6b	<u>104000</u>
	c Target normal cost	6c	<u>104000</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.

SIGN HERE	 Signature of actuary	<u>01/17/2024</u> Date
	<u>Susan N. Mason</u> Type or print name of actuary	<u>2308112</u> Most recent enrollment number
	<u>Principal Financial Group</u> Firm name	<u>412-394-9301</u> Telephone number (including area code)
	 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

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	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of <u> -19.27 </u> %	0	0
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u> 5.29 </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	0

Part III	Funding Percentages		
14	Funding target attainment percentage.....	14	89.75 %
15	Adjusted funding target attainment percentage.....	15	89.75 %
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	103.93 %
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
09/19/2023	109167	0			
Totals ▶			18(b)	109167	18(c)

19	Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:	
	a Contributions allocated toward unpaid minimum required contributions from prior years.	0
	b Contributions made to avoid restrictions adjusted to valuation date.....	0
	c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.....	105340
20	Quarterly contributions and liquidity shortfalls:	
	a Did the plan have a "funding shortfall" for the prior year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	<input type="checkbox"/> Yes <input type="checkbox"/> 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: 5.00 %	3rd segment: 5.74 %	<input type="checkbox"/> N/A, full yield curve used
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b Applicable month (enter code)..... **21b** 4

22 Weighted average retirement age **22** 67

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	104000
b Excess assets, if applicable, but not greater than line 31a	31b	0

32 Amortization installments:

	Outstanding Balance	Installment
a Net shortfall amortization installment	371403	1211
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	105211
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	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).....			105211
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....			105340

38 Present value of excess contributions for current year (see instructions)

a Total (excess, if any, of line 37 over line 36)	38a	129
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

Schedule SB - Explanation of Plan Year
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

The plan year beginning 01/01/2023 reflects a short plan year ending on the termination date of 01/13/2023.

Schedule SB, Line 22 - Description Of Weighted Average Retirement Age
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

The weighted average retirement age is weighted by the expected percentage of active participants retiring at each age. The retirement rate reflects only those participants who meet retirement eligibility. An active participant working past assumed retirement age is expected to retire at current age.

(1) Age	(2) Expected Active Headcount	(3) Retirement Rate	(4) Expected Retirements (2)*(3)	(5) Weighted Age (1)*(4)
65	6.8833	1.0000	6.8833	447.4145
66	2.0000	1.0000	2.0000	132.0000
67	0.0000	1.0000	0.0000	0.0000
68	1.0000	1.0000	1.0000	68.0000
69	0.0000	1.0000	0.0000	0.0000
70	1.0000	1.0000	1.0000	70.0000
71	0.0000	1.0000	0.0000	0.0000
72	0.0000	1.0000	0.0000	0.0000
73	1.0000	1.0000	1.0000	73.0000
74	0.0000	1.0000	0.0000	0.0000
75	0.0000	1.0000	0.0000	0.0000
76	1.0000	1.0000	1.0000	76.0000
Total			12.8833	866.4145
Average				67.25

Schedule SB, Part V - Summary of Plan Provisions
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

This report reflects the maximum benefit limits under Internal Revenue Code (IRC) Section 415 and maximum compensation limits under IRC Section 401 in effect on the first day of each plan year.

The following is a summary of plan provisions and does not alter the intent or meanings of the provisions contained in the contract or plan document. This report reflects the provisions of the plan signed 07/10/2019 including amendment signed 01/09/2022.

Plan eligibility

Service One year of service in which at least 1,000 hours worked.
Entry frozen as of 02/29/2008.

Normal retirement benefit

Age Attained age 65.
Service 5 years of participation. No service requirement if entered the plan prior to 01/01/1988.
Form Monthly annuity payable for life (optional forms may be elected in advance of retirement).
Amount (accrued benefit) a) .75% of monthly compensation for each year of service (max 45) plus
b) .5% of monthly compensation in excess of \$650 for each year of service (max 45)
Frozen as of 02/29/2008
Minimum benefits \$40.00 per month
Accrued benefit as of 01/01/2005

Early retirement benefit

Age Attained age 55.
Service Completed 15 years of vesting service.
Form Same as normal retirement benefit.
Amount Accrued benefit on early retirement date reduced by 1/15th for each month for the first 60 months and 1/30th for each of the next 60 months that the early retirement date precedes normal retirement date.

Late retirement benefit

Age No maximum age.
Form Same as normal retirement benefit.
Amount Greater of accrued benefit on late retirement date or accrued benefit on the later of normal retirement date or last day or preceding plan year actuarially increased to late retirement date.

Schedule SB, Part V - Summary of Plan Provisions
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

Termination benefit

Vesting percentage	100% after five years of vesting service.
Form	Same as normal retirement benefit with income deferred until normal retirement date.
Amount	Accrued benefit on date of termination multiplied by the vesting percentage.

Disability benefit

Eligibility	Total and permanent disabled as deemed by a physician unless resulted from chronic alcoholism, addiction to narcotics, injury incurred while engaged in any illegal or felonious enterprise, self-inflicted injury, or injury incurred while serving in the armed forces of any country.
Form	Monthly income payable until normal retirement, death, or recovery and a deferred annuity payable at the normal retirement date.
Amount	Early retirement benefit without regard to age or service requirements.

Survivor annuity death benefit (a vested benefit)

Eligibility	Qualified married participant fully or partially vested in an accrued benefit.
Form	Monthly annuity payable to spouse, deferred to participant's earliest retirement date if later than the date of death.
Amount	If death occurs, the amount paid to the surviving spouse is equal to the amount that would have been paid had the participant terminated employment on the date of death and survived to his/her earliest retirement age, retired with a qualified joint and 100% survivor annuity in effect, then died the next day.

Definitions

Optional forms of benefit payments	<p>The optional forms of benefit payments are:</p> <ul style="list-style-type: none">• Monthly annuity payable as a survivorship life annuity with survivorship percentages of 50 or 100.• Single sum payment if less than \$20,000. <p>The optional form conversion basis is the lesser of PBGC interest rate or 7.5% interest and the mortality table UP 1984 for payments other than lump sums.</p> <p>The optional form conversion basis uses the applicable interest rate and applicable mortality table as set forth in Code Section 417 for lump sum payments. The applicable interest rate uses the second calendar month preceding the first day of the stability period which is the plan year.</p>
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Schedule SB, Part V - Summary of Plan Provisions
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

Changes in Principal Eligibility or Benefit Provisions

The report reflects a short plan year due to the plan termination date of 01/13/2023.

Significant Event

The following significant event occurred during the plan year:

The plan terminated effective January 13, 2023, and the assets distributed 10/26/2023.

Schedule SB, Line 32 - Schedule of Amortization Bases
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

Details of shortfall charges

The historical information used to determine the total shortfall charge.

Date created	Present value	Remaining years	Shortfall charge
01/01/2023	\$371,403	15	\$1,211
Total	\$371,403		\$1,211

Last year's total shortfall annual charge was \$0. This year's shortfall charge is prorated because of the short plan year due to plan termination.

The total annual charge used in calculating your annual cost can't be less than zero.

Schedule SB, Line 24 – Change in Actuarial Assumptions
Pension Plan for the Employees of Appalachian Electronic Instruments, Inc.
EIN 55-0384909 Plan No. 001

Certain non-prescribed assumptions have been changed since last year. These assumptions were changed to better reflect the anticipated experience of your plan. See the attachment, Part V – Statement of Actuarial Assumptions/Methods, for the rationale for each assumption.

The assumed asset return for the current year has decreased from 5.00% to 2.40%. This rate is used in the calculation of the actuarial value of plan assets.