

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: RETIREMENT PLAN FOR EMPLOYEES OF MT.CARMEL UTILITY CO.
1b Three-digit plan number (PN): 001
1c Effective date of plan: 03/07/1942
2a Plan sponsor's name (employer, if for a single-employer plan): MT. CARMEL PUBLIC UTILITY CO.
2b Employer Identification Number (EIN): 37-0430490
2c Sponsor's telephone number: 618-262-5151
2d Business code (see instructions): 221100
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.
4b EIN
4d PN
5a Total number of participants at the beginning of the plan year: 63
5b Total number of participants at the end of the plan year: 62
5c(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)
5c(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)
5d(1) Total number of active participants at the beginning of the plan year: 20
5d(2) Total number of active participants at the end of the plan year: 20
5e 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, 07/28/2025, PATRICIA SPENCER. 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: 538622. (See instructions.)

Part III Financial Information			
7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	10703762	11562270
b Total plan liabilities	7b	0	0
c Net plan assets (subtract line 7b from line 7a)	7c	10703762	11562270
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers	8a(1)	840000	
(2) Participants	8a(2)	0	
(3) Others (including rollovers)	8a(3)	0	
b Other income (loss)	8b	892499	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		1732499
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	785400	
e Certain deemed and/or corrective distributions (see instructions) .	8e	0	
f Administrative service providers (salaries, fees, commissions)	8f	84623	
g Other expenses	8g	3968	
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		873991
i Net income (loss) (subtract line 8h from line 8c)	8i		858508
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 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	
c Was the plan covered by a fidelity bond?	10c	X		1000000
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	10d		X	
e Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service, or other organization that provides some or all of the benefits under the plan? (See instructions.)	10e		X	
f Has the plan failed to provide any benefit when due under the plan?	10f		X	
g Did the plan have any participant loans? (If "Yes," enter amount as of year-end.)	10g		X	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	10h		X	
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? (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 Q704995A.

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> 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

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

A Name of plan <u>RETIREMENT PLAN FOR EMPLOYEES OF MT.CARMEL UTILITY CO.</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>MT. CARMEL PUBLIC UTILITY CO.</u>	D Employer Identification Number (EIN) <u>37-0430490</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>2024</u>
2 Assets:			
a Market value	2a	<u>10703762</u>	
b Actuarial value	2b	<u>10962547</u>	
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	<u>39</u>	<u>8071331</u>	<u>8071331</u>
b For terminated vested participants	<u>4</u>	<u>220171</u>	<u>220171</u>
c For active participants	<u>20</u>	<u>3530581</u>	<u>3530581</u>
d Total	<u>63</u>	<u>11822083</u>	<u>11822083</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>			
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>5.21 %</u>	
6 Target normal cost			
a Present value of current plan year accruals	6a	<u>262701</u>	
b Expected plan-related expenses	6b	<u>0</u>	
c Target normal cost	6c	<u>262701</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>JONATHAN WITTEN, FSA, EA</u> Type or print name of actuary <u>EPIC RETIREMENT PLAN SERVICES</u> Firm name <u>5 WIDGERY WHARF</u> <u>2ND FLOOR</u> <u>PORTLAND, ME 04101</u> Address of the firm	<u>07/14/2025</u> Date <u>23-08824</u> Most recent enrollment number <u>207-387-3569</u> Telephone number (including area code)
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Part II Beginning of Year Carryover and Prefunding Balances		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	7316
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	7316
10	Interest on line 9 using prior year's actual return of <u>9.70</u> %	0	710
11	Prior year's excess contributions to be added to prefunding balance:		
a	Present value of excess contributions (line 38a from prior year)		482764
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>5.30</u> %		25586
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		508350
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	8026

Part III Funding Percentages			
14	Funding target attainment percentage	14	92.66 %
15	Adjusted funding target attainment percentage	15	92.66 %
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	92.88 %
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		
01/04/2024	70000	0	07/05/2024	70000	0		
02/08/2024	70000	0	08/09/2024	70000	0		
03/07/2024	70000	0	09/05/2024	70000	0		
04/04/2024	70000	0	10/03/2024	70000	0		
05/02/2024	70000	0	11/07/2024	70000	0		
06/06/2024	70000	0	12/05/2024	70000	0		
			Totals ▶	18(b)	840000	18(c)	0

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

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	820304

20 Quarterly contributions and liquidity shortfalls:

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

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

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

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

Part V Assumptions Used to Determine Funding Target and Target Normal Cost				
21 Discount rate:				
a Segment rates:	1st segment: 4.75 %	2nd segment: 4.96 %	3rd segment: 5.59 %	<input type="checkbox"/> N/A, full yield curve used
b Applicable month (enter code)				21b 0
22 Weighted average retirement age				22 66
23 Mortality table(s) (see instructions)	<input checked="" type="checkbox"/> Prescribed - combined	<input 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 type="checkbox"/> Yes <input checked="" 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 262701
b Excess assets, if applicable, but not greater than line 31a				31b 0
32 Amortization installments:	Outstanding Balance		Installment	
a Net shortfall amortization installment	867562		93130	
b Waiver amortization installment.....				
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 355831
	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 355831
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)				37 820304
38 Present value of excess contributions for current year (see instructions)				
a Total (excess, if any, of line 37 over line 36)				38a 464473
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 type="checkbox"/> 2021				

Schedule SB, Part V – Statement of Actuarial Assumptions/Methods

Retirement Plan for Employees of Mt. Carmel Public Utility Co.

EIN/PN: 37-0430490/001

Plan Year: 1/1/2024 to 12/31/2024

FUNDING ASSUMPTIONS

Actuarial assumptions are estimates of the occurrence of future events affecting the costs of the plan such as mortality rates, changes in compensation levels, retirement ages, rates of investment earnings, expenses, etc. The assumptions have been chosen to anticipate the long-range experience of the plan. The enrolled actuary will certify to the reasonableness of these assumptions, as required by ERISA.

The actuarial assumptions used in this year's valuation are as follows:

Asset Method:	PPA Smoothed Value of Assets	
Target Liability Interest Rates	ARPA Rates	PPA Rates
1st Segment	4.75%	4.37%
2nd Segment	4.96%	4.96%
3rd Segment	5.59%	4.95%
Effective Rate¹	5.21% per annum	
Salary Increases:	3.00% per annum	
Mortality:	IRS 2024+ Small Plan Combined Static Mortality (dynamic)	
Turnover:	Table 1	
Retirement:	100% retire at age 65	
Expenses in Target Normal Cost:	\$0 per annum	
Percent Married	100% of participants are assumed to be married	
Spouse Age Difference	Females are 3 years younger than males	
Assumed Forms of Benefit:	Lump Sum	0%
	Annuity	100%

¹ The effective rate is the single rate that yields a liability equal to the liability calculated using the multiple rates shown above.

Schedule SB, Part V – Statement of Actuarial Assumptions/Methods

Retirement Plan for Employees of Mt. Carmel Public Utility Co.

EIN/PN: 37-0430490/001

Plan Year: 1/1/2024 to 12/31/2024

Table 1

Age	Rate
25	5.00%
30	3.75%
35	2.50%
40	1.50%
45	0.75%

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> 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

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

A Name of plan RETIREMENT PLAN FOR EMPLOYEES OF MT.CARMEL UTILITY CO.	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF MT. CARMEL PUBLIC UTILITY CO.	D Employer Identification Number (EIN) 37-0430490	
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>2024</u>
2 Assets:			
a Market value	2a		10,703,762
b Actuarial value	2b		10,962,547
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	39	8,071,331	8,071,331
b For terminated vested participants	4	220,171	220,171
c For active participants	20	3,530,581	3,530,581
d Total	63	11,822,083	11,822,083
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)	<input type="checkbox"/>		
a Funding target disregarding prescribed at-risk assumptions	4a		
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b		
5 Effective interest rate	5		5.21%
6 Target normal cost			
a Present value of current plan year accruals	6a		262,701
b Expected plan-related expenses	6b		0
c Target normal cost	6c		262,701

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>7/14/2025</u> Date
	Jonathan Witten, FSA, EA Type or print name of actuary	<u>2308824</u> Most recent enrollment number
	EPIC Retirement Plan Services Firm name	<u>207-387-3569</u> Telephone number (including area code)
	5 Widgery Wharf 2nd Floor Portland ME 04101 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	7,316
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	7,316
10	Interest on line 9 using prior year's actual return of <u>9.70%</u>	0	710
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		482,764
	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>5.30%</u>		25,586
	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		508,350
	d Portion of (c) to be added to prefunding balance		
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	8,026

Part III Funding Percentages			
14	Funding target attainment percentage	14	92.66%
15	Adjusted funding target attainment percentage	15	92.66%
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	92.88%
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
01/04/2024	70,000	0			
02/08/2024	70,000	0			
03/07/2024	70,000	0			
04/04/2024	70,000	0			
05/02/2024	70,000	0			
06/06/2024	70,000	0			
07/05/2024	70,000	0			
08/09/2024	70,000	0			
09/05/2024	70,000	0			
10/03/2024	70,000	0			
11/07/2024	70,000	0			
12/05/2024	70,000	0			
			Totals ▶	18(b)	18(c)
				840,000	0

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

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	820,304

20 Quarterly contributions and liquidity shortfalls:

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

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

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

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

Part V Assumptions Used to Determine Funding Target and Target Normal Cost				
21 Discount rate:				
a Segment rates:	1st segment: 4.75 %	2nd segment: 4.96 %	3rd segment: 5.59%	<input type="checkbox"/> N/A, full yield curve used
b Applicable month (enter code).....				21b 0
22 Weighted average retirement age				22 66
23 Mortality table(s) (see instructions)	<input checked="" type="checkbox"/> Prescribed - combined <input 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 type="checkbox"/> Yes <input checked="" 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 262,701
b Excess assets, if applicable, but not greater than line 31a				31b 0
32 Amortization installments:	Outstanding Balance		Installment	
a Net shortfall amortization installment	867,562		93,130	
b Waiver amortization installment				
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)....				34 355,831
	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).....				36 355,831
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....				37 820,304
38 Present value of excess contributions for current year (see instructions)				
a Total (excess, if any, of line 37 over line 36)				38a 464,473
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 type="checkbox"/> 2021				

Schedule SB, Part V – Summary of Plan Provisions
Retirement Plan for Employees of Mt. Carmel Public Utility Co.
EIN/PN: 37-0430490/001
Plan Year: 1/1/2024 to 12/31/2024

PLAN PROVISIONS

The actuarial valuation was prepared in accordance with the provisions of the plan, a summary of which is presented below. The summary describes the principal provisions only and is not intended to be authoritative. For questions about specific benefits, please refer to the plan document. This summary of plan provisions is intended to only describe the essential features of the plan.

Basic Information

Plan Name: Retirement Plan for Employees of Mt. Carmel Public Utility Co.

Effective Date

The plan was last restated effective March 7, 1942 and last amended effective January 1, 2020.

Participation: Any employee hired on or after October 20, 2015 is not eligible to participate. All active participants are eligible to accrue additional benefits.

Normal Retirement

Normal Retirement Date: Age 65

Normal Retirement Benefit: 2.50% of Compensation for each Year of Service on or after January 1, 1989. Different formulas apply for service prior to 1989.

Early Retirement Date: Age 55

Early Retirement Benefit: Accrued Retirement Benefit determined as of his Early Retirement date and reduced 5/18 of 1% for each of the first 60 months that the early Retirement date precedes Normal Retirement date.

Death Before Retirement

Eligibility: 3 years of service

Death Benefit: Beneficiary receives a pre-retirement survivor annuity that is Actuarially Equivalent to the participant's vested accrued benefit.

Termination Benefit

Eligibility: 7-year graded vesting (i.e. 20% at year 3, 40% at year 4, 60% at year 5, 80% at year 6, 100% at year 7)

Termination Benefit: Vested Accrued Retirement Benefit payable at Participant's Normal Retirement Date.

Forms of Payment

Normal Forms: Life Annuity

Optional Forms: Lump Sum of not to exceed \$5,000; Single Life Annuity; 5, 10 and 15 Year Certain and Life Annuity; 10 and 15 and 20 Year Certain Only Annuity; 50%, 75%, and 100% Joint and Survivor Annuity

Actuarial Equivalence: For non-decreasing annuities: Actuarial Equivalence will be computed using 7.0% interest and the 83 Group Annuity Mortality Table for Males

For accelerated forms of payment: Actuarial Equivalence will be computed using the interest rate and mortality as prescribed under Code Section 417(e)(3).

Schedule SB, Part V – Summary of Plan Provisions
Retirement Plan for Employees of Mt. Carmel Public Utility Co.
EIN/PN: 37-0430490/001
Plan Year: 1/1/2024 to 12/31/2024

The interest rate will be for the month of October preceding the Plan Year that contains the annuity starting date

Attachment to Schedule SB, Line 32 — Shortfall Amortization Charge
 Retirement Plan for Employees of Mt. Carmel Public Utility Co.
 EIN/PN: 37-0430490/001
 Plan Year: 1/1/2024 to 12/31/2024

Development of Shortfall Amortization Charge

1. Funding target	11,822,083
2. Adjusted plan assets	
(a) Actuarial assets	10,962,547
(b) Funding Standard Carryover Balance	0
(c) Prefunding Balance (PFB)	8,026
(d) Adjusted assets: (a)-(b)-(c), not less than 0	10,954,521
3. Funding shortfall: (1)-(2)(d), not less than 0	867,562
4. Current shortfall amortization installments	
(i) Year -1 base (6 years remaining)	17,092
(ii) Year -2 base (5 years remaining)	-63,249
(iii) Year -3 base (4 years remaining)	130,340
(iv) Year -4 base (3 years remaining)	0
(v) Year -5 base (2 years remaining)	0
(vi) Year -6 base (1 year remaining)	0
(vi) Year -7 base (1 year remaining)	0
(vi) Year -8 base (1 year remaining)	0
(vi) Year -9 base (1 year remaining)	0
(vi) Year -10 base (1 year remaining)	0
(vi) Year -11 base (1 year remaining)	0
(vi) Year -12 base (1 year remaining)	0
(vi) Year -13 base (1 year remaining)	0
(vi) Year -14 base (1 year remaining)	0
(b) Total annual installments	0
(c) Present value of installments to be made	
(i) Year -1 base (6 years remaining)	178,332
(ii) Year -2 base (5 years remaining)	-626,208
(iii) Year -3 base (4 years remaining)	1,217,543
(iv) Year -4 base (3 years remaining)	0
(v) Year -5 base (2 years remaining)	0
(vi) Year -6 base (1 year remaining)	0
(vi) Year -7 base (1 year remaining)	0
(vi) Year -8 base (1 year remaining)	0

(vi) Year -9 base (1 year remaining)	0
(vi) Year -10 base (1 year remaining)	0
(vi) Year -11 base (1 year remaining)	0
(vi) Year -12 base (1 year remaining)	0
(vi) Year -13 base (1 year remaining)	0
(vi) Year -14 base (1 year remaining)	0
(d) Total present value of annual installments	769,667
<i>5. If $(2a)-(5c) \geq (5b)$, then there is no need to establish a new base</i>	
(a) Target liability percentage	100%
(b) Shortfall funding target: $(1) \times (a)$	11,822,083
(c) Prefunding Balance if used to reduce the MRC, else 0	0
6. Shortfall amortization base	
(a) Adjusted funding shortfall: $(5b)-(2d)$, not less than 0	867,562
(b) New current year base: $(a)-(4d)$, or 0 if exempt	97,895
(c) New 15-year installment amount	8,947
7. Shortfall amortization charge: $(4b)+(6c)$, not less than 0	93,130