

# **Maine Public Employees' Retirement System**

## **Retiree Group Life Insurance Program**

### **Participating Local Districts (PLDs) Actuarial Valuation and GASB Statement No. 74 Report as of June 30, 2025**

**Presented by Cheiron  
October 2025**

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October 9, 2025

Board of Trustees  
Maine Public Employees' Retirement System  
PO Box 349  
Augusta, Maine 04332-0349

Dear Members of the Board:

The purpose of this report is to provide accounting and financial reporting information under Governmental Accounting Standards Board (GASB) Statement No. 74 and present the estimated Postretirement Group Life Insurance obligations as of June 30, 2025, for the Maine Public Employees' Retirement System (MainePERS or System) based on a roll-forward valuation of the obligations as of June 30, 2024.

This report covers the participants of Participating Local Districts Plans (PLDs). This report includes:

- Determination of the discount rate,
- Calculation of the Total OPEB Liability (TOL) from the valuation date to the measurement date,
- Calculation of the Net OPEB Liability (NOL) at the discount rate as well as discount rates one percentage higher and lower than the discount rate, and
- Changes in the Net OPEB Liability.

We have determined the costs and liabilities for the substantive plan using actuarial assumptions and methods that we consider reasonable. The information shown in this report is primarily for financial disclosure purposes since the biennial full valuations are used to adjust funding strategies, and the contributions for the participants of the PLDs are based on premiums set by the premium studies.

The current premium rates reflect rate changes adopted by the Board of Trustees based on a premium study conducted in 2024. The basic premiums are \$0.23 bi-weekly per \$1,000 of coverage for fiscal year (FY) 2025 for both active and retired PLD participants. Basic premiums will increase to \$0.24 for FY 2026 and \$0.25 for FY 2028. For active participants, \$0.12 is allocated to fund active benefits beginning in FY 2026, while the difference is allocated to fund future retiree benefits. The increases for 2028 will be evaluated during the next premium study that is scheduled for 2026.

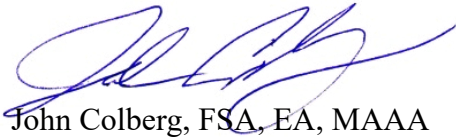
In preparing our report, we relied on information (some oral and some written) supplied by the System. This information includes, but is not limited to, the plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23.

Future actuarial measurements may differ significantly from the current measurements due to such factors as the following: plan experience differing from that anticipated by the assumptions; changes in assumptions; and changes in plan provisions or applicable law.

This report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this report. This report does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

This report was prepared for the Maine Public Employees' Retirement System for the purposes described herein and for the use by the Plan auditor in completing an audit related to the matters herein. Other users of this report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to any such other users.

Sincerely,  
Cheiron



John Colberg, FSA, EA, MAAA  
Principal Consulting Actuary



Ryan Benitez, ASA, MAAA  
Consulting Actuary

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**SECTION I – SUMMARY OF KEY RESULTS**

The reporting date for the Maine Public Employees Retirement System Retiree Group Life Insurance Program presented in this report is June 30, 2025. Measurements as of the reporting date are based on the fair value of assets as of June 30, 2025, and the Total OPEB Liability (TOL) as of the valuation date, June 30, 2024, rolled forward to June 30, 2025. Therefore, the update procedures included the addition of service cost and interest cost offset by actual benefit payments as permitted under GASB No. 74.

Beginning of year measurements presented in this report are based on the actuarial valuation as of June 30, 2024 rolled forward to June 30, 2025. Because the beginning and ending values are based on the same actuarial valuation and there were no significant events, no liability gains, or losses due to experience are reported in either year shown in this report. During full valuation years, liability gains and losses will be reported reflecting the liability gains and losses between actuarial valuation dates as well as any significant events during the update period.

Table I-1 below provides a summary of the key results during this reporting period ending on June 30, 2025.

| <b>Table I-1<br/>Summary of Results</b> |                                        |                                        |
|-----------------------------------------|----------------------------------------|----------------------------------------|
|                                         | <b>Measurement Date<br/>06/30/2024</b> | <b>Measurement Date<br/>06/30/2025</b> |
| Total OPEB Liability                    | \$ 34,440,889                          | \$ 35,660,670                          |
| Plan Fiduciary Net Position             | 23,378,708                             | 26,671,712                             |
| Net OPEB Liability                      | \$ 11,062,181                          | \$ 8,988,958                           |

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**SECTION II – DETERMINATION OF DISCOUNT RATE**

MainePERS's funding policy is for PLD employees or districts to pay \$0.23 biweekly per \$1,000 in coverage for all participants. Of the \$0.23 for actives, \$0.12 is allocated to the Retiree Fund for retiree benefits.

As recommended in the 2024 Premium Study, the following increases are assumed and are determined as the amounts needed to fund the Actuarially Determined Contribution:

- FYE 2026: \$0.24 for retirees with \$0.12 of active premiums allocated to the Retiree Fund
- FYE 2028: \$0.25 for retirees with \$0.13 of active premiums allocated to the Retiree Fund

The discount rate at June 30, 2025 is 6.50%, which is the assumed long-term expected rate of return on plan investments. The fiduciary net position was projected to be available to make all projected future benefit payments for current plan members. As such, the long-term expected rate of return on the Program's investments was applied to all periods of projected benefit payments in determining the Total OPEB Liability. The projection of cash flows used to determine the discount rate assumed that the employer contributions will be made according to the funding policy described in the above paragraph.

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**SECTION III – PROJECTION OF TOTAL OPEB LIABILITY**

The TOL at the beginning of the current measurement year is measured as of the valuation date June 30, 2024. The TOL at the end of the measurement year, June 30, 2025, is measured as of the valuation date June 30, 2024 and projected to June 30, 2025. This is a roll-forward valuation and full valuations are completed at least every two years. The table below shows the calculated TOL at discount rates equal to the rate used for disclosure purposes and plus and minus one percent from the rate used for disclosure purposes. The TOL has been determined using the entry age actuarial cost method as described in paragraph 54 of GASB Statement 74.

Table III-1 projects the TOL from the valuation date to the end of the fiscal year for the assumed discount rate as well as for plus and minus one percent of this discount rate.

| <b>Table III-1<br/>Projection of Total OPEB Liability</b> |                       |                       |                       |
|-----------------------------------------------------------|-----------------------|-----------------------|-----------------------|
| <b>Discount Rate</b>                                      | <b>5.50%</b>          | <b>6.50%</b>          | <b>7.50%</b>          |
| <b>Total OPEB Liability, 6/30/2024</b>                    |                       |                       |                       |
| Actives                                                   | \$ 12,157,174         | \$ 9,696,156          | \$ 7,825,623          |
| Deferred Vested                                           | 0                     | 0                     | 0                     |
| Retirees                                                  | 27,600,413            | 24,744,733            | 22,339,645            |
| <b>Total</b>                                              | <b>\$ 39,757,587</b>  | <b>\$ 34,440,889</b>  | <b>\$ 30,165,268</b>  |
| <b>Service Cost, Beginning of Year</b>                    |                       |                       |                       |
| Service Cost at Valuation Date                            | \$ 511,023            | \$ 351,657            | \$ 240,931            |
| Service Cost Rate                                         | 0.15%                 | 0.10%                 | 0.07%                 |
| Expected Payroll During Year                              | 339,968,000           | 339,968,000           | 339,968,000           |
| Service Cost                                              | \$ 511,023            | \$ 351,657            | \$ 240,931            |
| <b>Benefit Payments</b>                                   | <b>\$ (1,350,201)</b> | <b>\$ (1,350,201)</b> | <b>\$ (1,350,201)</b> |
| <b>Interest</b>                                           | <b>\$ 2,178,140</b>   | <b>\$ 2,218,325</b>   | <b>\$ 2,230,748</b>   |
| <b>Change in Benefits</b>                                 | <b>0</b>              | <b>0</b>              | <b>0</b>              |
| <b>Change in Assumptions</b>                              | <b>0</b>              | <b>0</b>              | <b>0</b>              |
| <b>Other Significant Events</b>                           | <b>0</b>              | <b>0</b>              | <b>0</b>              |
| <b>Total OPEB Liability, 6/30/2025</b>                    | <b>\$ 41,096,549</b>  | <b>\$ 35,660,670</b>  | <b>\$ 31,286,746</b>  |

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**SECTION IV – NOTE DISCLOSURES**

Table IV-1 below shows the changes in TOL, the plan fiduciary net position (i.e., fair value of plan assets), and the Net OPEB Liability during the measurement year. There were no significant changes in benefits during the year. No difference between expected and actual experience, i.e., experience adjustments, is included in this report since the same participant data was used as in the full valuation.

| Table IV-1<br>Change in Net OPEB Liability - PLD   |                                |                                       |                                    |
|----------------------------------------------------|--------------------------------|---------------------------------------|------------------------------------|
|                                                    | Increase (Decrease)            |                                       |                                    |
|                                                    | Total OPEB<br>Liability<br>(a) | Plan Fiduciary<br>Net Position<br>(b) | Net OPEB<br>Liability<br>(a) - (b) |
| <b>Balances at 06/30/2024</b>                      | \$ 34,440,889                  | \$ 23,378,708                         | \$ 11,062,181                      |
| <b>Changes for the year:</b>                       |                                |                                       |                                    |
| Service cost                                       | 351,657                        |                                       | 351,657                            |
| Interest                                           | 2,218,325                      |                                       | 2,218,325                          |
| Changes of benefits                                | 0                              |                                       | 0                                  |
| Changes of assumptions                             | 0                              |                                       | 0                                  |
| Differences between expected and actual experience | 0                              |                                       | 0                                  |
| Contributions - employer                           |                                | 1,664,074                             | (1,664,074)                        |
| Contributions - member                             |                                | 0                                     | 0                                  |
| Net investment income                              |                                | 3,128,916                             | (3,128,916)                        |
| Benefit payments                                   | (1,350,201)                    | (1,350,201)                           | 0                                  |
| Administrative expense                             | 0                              | (149,785)                             | 149,785                            |
| <b>Net changes</b>                                 | <b>1,219,781</b>               | <b>3,293,004</b>                      | <b>(2,073,223)</b>                 |
| <b>Balances at 6/30/2025</b>                       | \$ 35,660,670                  | \$ 26,671,712                         | \$ 8,988,958                       |

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**SECTION IV – NOTE DISCLOSURES**

Changes in the discount rate would affect the measurement of the TOL. Lower discount rates produce a higher TOL and higher discount rates produce a lower TOL. Because the discount rate does not affect the measurement of assets, the percentage change in the NOL can be very significant for a relatively small change in the discount rate. Table IV-2 shows the sensitivity of the TOL and NOL to the discount rate.

| <b>Table IV-2</b><br><b>Sensitivity of Net OPEB Liability to Changes in Discount Rate</b> |                                  |                                    |                                  |
|-------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|----------------------------------|
|                                                                                           | <b>1%<br/>Decrease<br/>5.50%</b> | <b>Discount<br/>Rate<br/>6.50%</b> | <b>1%<br/>Increase<br/>7.50%</b> |
| Total OPEB Liability                                                                      | \$ 41,096,549                    | \$ 35,660,670                      | \$ 31,286,746                    |
| Plan Fiduciary Net Position                                                               | <u>26,671,712</u>                | <u>26,671,712</u>                  | <u>26,671,712</u>                |
| Collective Net OPEB Liability                                                             | <u>\$ 14,424,837</u>             | <u>\$ 8,988,958</u>                | <u>\$ 4,615,034</u>              |
| Plan Fiduciary Net Position as a<br>Percentage of the Total OPEB Liability                | 64.9%                            | 74.8%                              | 85.2%                            |

A one percent decrease in the discount rate increases the TOL by approximately 15.2% and increases the NOL by approximately 60.5%. A one percent increase in the discount rate decreases the TOL by approximately 12.3% and decreases the NOL by approximately 48.7%.

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**SECTION V – REQUIRED SUPPLEMENTARY INFORMATION**

| Table V-1<br>Schedule of Changes in Net OPEB Liability and Related Ratios |                      |
|---------------------------------------------------------------------------|----------------------|
|                                                                           | FY 2025              |
| <b><u>Total OPEB Liability</u></b>                                        |                      |
| Service cost (BOY)                                                        | \$ 351,657           |
| Interest (includes interest on service cost)                              | 2,218,325            |
| Changes of benefit terms                                                  | 0                    |
| Differences between expected and actual experience                        | 0                    |
| Changes of assumptions                                                    | 0                    |
| Benefit payments                                                          | (1,350,201)          |
| <b>Net change in total OPEB liability</b>                                 | <b>1,219,781</b>     |
| <b>Total OPEB liability - beginning</b>                                   | <b>34,440,889</b>    |
| <b>Total OPEB liability - ending</b>                                      | <b>\$ 35,660,670</b> |
| <b><u>Plan fiduciary net position</u></b>                                 |                      |
| Contributions - employer                                                  | \$ 1,664,074         |
| Contributions - member                                                    | 0                    |
| Net investment income                                                     | 3,128,916            |
| Benefit payments                                                          | (1,350,201)          |
| Administrative expense                                                    | (149,785)            |
| <b>Net change in plan fiduciary net position</b>                          | <b>\$ 3,293,004</b>  |
| <b>Plan fiduciary net position - beginning</b>                            | <b>23,378,708</b>    |
| <b>Plan fiduciary net position - ending</b>                               | <b>\$ 26,671,712</b> |
| <b>Net OPEB liability - ending</b>                                        | <b>\$ 8,988,958</b>  |
| Plan fiduciary net position as a percentage of the total OPEB liability   | 74.8%                |
| Covered employee payroll                                                  | \$ 349,317,120       |
| Net OPEB liability as a percentage of covered employee payroll            | 2.6%                 |

Notes to Schedule of Changes in Net OPEB Liability and Related Ratios

None

A ten-year schedule of changes in NOL and related ratios is to be included within the Annual Comprehensive Financial Report (ACFR) for MainePERS. However, based on GASB guidance, this ten-year history can be built one year at a time following implementation. We have shown only the current year of this *Schedule of Changes in Net OPEB Liability and Related Ratios* above and believe that you can accumulate these individual years in the MainePERS ACFR to build this schedule to show the full ten-year schedule over time. Notes to this schedule should be included for any factors significantly impacting the trends reported within the period shown in this schedule at that time. As of June 30, 2025, we have not included such a note in the *Notes to Schedule of Changes in Net OPEB Liability and Related Ratios* above. However, it is our expectation that the System staff will make the final determination regarding any notes needed for this schedule and we are available to provide any information they may need for this purpose.

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**SECTION V – REQUIRED SUPPLEMENTARY INFORMATION**

If an Actuarially Determined Contribution is calculated, the following schedule is required. An Actuarially Determined Contribution is a contribution amount determined in accordance with Actuarial Standards of Practice.

| <b>Table V-2<br/>Schedule of Employer Contributions<br/>During Fiscal Year 2025</b> |                    |
|-------------------------------------------------------------------------------------|--------------------|
|                                                                                     | <b>PLD</b>         |
| Actuarially Determined Contribution                                                 | \$ 1,984,731       |
| Contributions in Relation to the Actuarially Determined Contribution                | <u>1,664,074</u>   |
| Contribution Deficiency/(Excess)                                                    | \$ 320,657         |
| <br>Covered Payroll                                                                 | <br>\$ 349,317,120 |
| Contributions as a Percentage of Covered Payroll                                    | 0.48%              |

**Notes to Schedule**

Valuation Date: June 30, 2020

Timing: The ADC is calculated in advance of the completion of the prior biennial valuation and thus rolled-forward from prior results. In this case, ADCs for 2024 and 2025 are based on the June 30, 2020, valuation rolled forward and adjusted for changes in assumptions.

**Key Methods and Assumptions Used to Determine Contribution Rates for FY 2025**

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| Actuarial Cost Method:       | Entry Age Normal                                         |
| Asset Valuation Method:      | Market Value                                             |
| Amortization Method:         | Level percent closed with 11 years remaining for FY 2025 |
| Discount Rate:               | 6.75%                                                    |
| Salary Inflation:            | 2.75%                                                    |
| Administrative Expense Load: | 9.36%                                                    |

A complete description of the methods and assumptions used to determine contribution rates for the year ending June 30, 2025, can be found in the June 30, 2020, Actuarial Valuation report.

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**SECTION V – REQUIRED SUPPLEMENTARY INFORMATION**

Table V-3 that follows is provided in this report at the request of MainePERS staff, showing the development of the average remaining service life for the Program. GASB 75 requires some items be recognized by employers into OPEB expense over a period “equal to the average of the expected remaining service lives of all employees that are provided with OPEB through the OPEB plan (active employees and inactive employees) determined as of the beginning of the measurement period.” For the current measurement year ending on June 30, 2025, these values are thus developed based on the prior full biennial valuation data as of June 30, 2024. The development of this value is shown below, including reflection of the decision by MainePERS to round the resulting value to the nearest whole year.

| <b>Table V-3<br/>Average Expected Remaining Service Life<br/>For Measurement Year Ending June 30, 2025</b> |                                          |              |                                               |
|------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------|-----------------------------------------------|
| <b>Status</b>                                                                                              | <b>Total Expected<br/>Future Service</b> | <b>Count</b> | <b>Average<br/>Remaining<br/>Service Life</b> |
| Actives                                                                                                    | 55,765                                   | 5,362        | 10                                            |
| Inactives                                                                                                  | <u>0</u>                                 | <u>2,957</u> | <u>0</u>                                      |
| Total Membership                                                                                           | 55,765                                   | 8,319        | 7                                             |

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS, AND METHODS**

**Participant Data as of June 30, 2024**

| <b>Table A-1</b>          |              |                    |                        |                       |
|---------------------------|--------------|--------------------|------------------------|-----------------------|
| <b>Active Member Data</b> |              |                    |                        |                       |
| <b>Group</b>              | <b>Count</b> | <b>Average Age</b> | <b>Average Service</b> | <b>Average Salary</b> |
| PLDs                      | 5,362        | 48.4               | 9.7                    | \$ 63,403             |

| <b>Table A-2</b>              |              |                    |                                    |
|-------------------------------|--------------|--------------------|------------------------------------|
| <b>Non-Active Member Data</b> |              |                    |                                    |
| <b>Group</b>                  | <b>Count</b> | <b>Average Age</b> | <b>Average Benefit<sup>1</sup></b> |
| PLDs                          | 2,957        | 73.5               | \$ 20,193                          |

<sup>1</sup> *Ultimate benefit (40% of initial base benefit)*

Note that all assumptions are based on the MainePERS Pension assumptions, which were updated after the experience study performed in 2020. All assumptions specific to this valuation are detailed in the following section.

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS, AND METHODS**

**A. Actuarial Assumptions**

**1. Annual Rate of Investment Return**

|      |       |
|------|-------|
| PLDs | 6.50% |
|------|-------|

Rate is net of investment expense.

**2. Cost-of-Living Adjustment in Life Benefits**

N/A. Unlike pension benefits, Life Benefits do not increase with the Cost of Living.

**3. Annual Rate of Individual Salary Increase (% at Selected Years of Service)**

| Years of Service | Rate of Increase |
|------------------|------------------|
| 0                | 11.48%           |
| 1                | 8.66             |
| 2                | 4.81             |
| 3                | 4.29             |
| 4                | 4.03             |
| 5                | 3.78             |
| 10               | 3.26             |
| 15               | 3.26             |
| 20               | 3.01             |
| 25               | 2.75             |
| 30               | 2.75             |

The above rates include a 2.75% across-the-board increase at each year of service.

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS, AND METHODS**

**4. Sample Rates of Termination (% at Selected Years of Service)**

| Service | Regular | Special |
|---------|---------|---------|
| 0       | 28.0%   | 17.9%   |
| 1       | 21.0    | 14.4    |
| 2       | 15.0    | 10.5    |
| 3       | 12.0    | 9.5     |
| 4       | 10.0    | 7.8     |
| 5       | 9.0     | 7.9     |
| 10      | 5.0     | 4.5     |
| 15      | 3.5     | 2.9     |
| 20      | 3.5     | 2.7     |
| 25      | 3.0     | 0.0     |

**5. Sample Rates of Mortality for Healthy Annuitant Lives at Selected Ages (number of deaths per 10,000 members)**

| Age | (Showing values in 2024) |        |
|-----|--------------------------|--------|
|     | Male                     | Female |
| 50  | 31                       | 24     |
| 55  | 46                       | 34     |
| 60  | 70                       | 47     |
| 65  | 102                      | 69     |
| 70  | 157                      | 110    |
| 75  | 264                      | 196    |
| 80  | 478                      | 364    |
| 85  | 884                      | 695    |
| 90  | 1,547                    | 1,308  |
| 95  | 2,421                    | 2,143  |

Rates are based on 112.1% and 118.5% of the 2010 Public Plan General Benefits-Weighted Healthy Retiree Mortality Table, respectively, for males and females. Proposed rates are projected generationally using the RPEC\_2020 model, with an ultimate rate of 1.00% for ages 80 and under, grading down to 0.05% at age 95, and further grading down to 0.00% at age 115, with convergence to the ultimate rates in 2027. All other parameters used in the RPEC\_2020 model are those included in the published MP-2020 scale.

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS, AND METHODS**

**6. Sample Rates of Mortality for Active Lives at Selected Ages (number of deaths per 10,000 members)**

| (Showing values in 2024) |      |        |
|--------------------------|------|--------|
| Age                      | Male | Female |
| 20                       | 3    | 1      |
| 25                       | 3    | 1      |
| 30                       | 4    | 2      |
| 35                       | 6    | 3      |
| 40                       | 7    | 4      |
| 45                       | 9    | 5      |
| 50                       | 12   | 7      |
| 55                       | 17   | 11     |
| 60                       | 27   | 17     |
| 65                       | 39   | 25     |

Rates are based on 83.5% and 88.6% of the 2010 Public Plan General Benefits- Weighted Employee Mortality Table, respectively, for males and females. These rates are generationally projected using the same version of the RPEC\_2020 model as described in the healthy annuitant mortality.

**7. Sample Rates of Mortality for Disabled Annuitant Lives at Selected Ages (number of deaths per 10,000 members)**

| (Showing values in 2024) |      |        |
|--------------------------|------|--------|
| Age                      | Male | Female |
| 25                       | 36   | 21     |
| 30                       | 54   | 37     |
| 35                       | 74   | 58     |
| 40                       | 91   | 76     |
| 45                       | 113  | 98     |
| 50                       | 159  | 141    |
| 55                       | 216  | 181    |
| 60                       | 274  | 210    |
| 65                       | 325  | 220    |
| 70                       | 383  | 258    |

Rates are based on 107.3% and 103.2% of the 2010 Public Plan Non-Safety Benefits-Weighted Disabled Retiree Mortality Table, respectively, for males and females. These rates are generationally projected using the same version of the RPEC\_2020 model described in the healthy annuitant mortality.

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**8. Sample Rates of Retirement at Selected Ages (number retiring per 1,000 members)**

*Regular Plans*

| Regular Plans |        |        |
|---------------|--------|--------|
| Age           | NRA 60 | NRA 65 |
| 45            | N/A    | N/A    |
| 50            | N/A    | N/A    |
| 55            | N/A    | N/A    |
| 60            | 120    | 60     |
| 65            | 250    | 200    |
| 70            | 1,000  | 250    |
| 75            | 1,000  | 1,000  |

In the case of PLD employees, NRA 60 refers to those who were hired prior to July 1, 2014, and NRA 65 refers to those who were hired on or after July 1, 2014.

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*Special Plans*

| Years of Service | Special Plans |
|------------------|---------------|
| 20               | 350           |
| 21               | 300           |
| 22               | 280           |
| 23               | 250           |
| 24               | 200           |
| 25               | 350           |
| 26               | 250           |
| 27               | 230           |
| 28               | 250           |
| 29               | 400           |
| 30               | 250           |
| 31-33            | 250           |
| 34               | 330           |
| 35+              | 1,000         |

Note that all retirement rates are only applied once the member is eligible to retire, so those in 25-year plans are not assumed to retire at 20 years of service. For Special Plan retirements with less than 20 years of service, we assume 250 retirements per 1,000 members.

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**9. Sample Rates of Disability at Selected Ages (number becoming disabled per 10,000 members)**

|    | Regular | Special |
|----|---------|---------|
| 25 | 0.9     | 2.3     |
| 30 | 1.2     | 3.0     |
| 35 | 1.8     | 4.5     |
| 40 | 4.2     | 10.5    |
| 45 | 8.7     | 21.8    |
| 50 | 16.5    | 41.3    |
| 55 | 28.5    | 70.0    |
| 60 | 30.0    | 70.0    |

**10. Premium Expense Assumption**

To reflect administrative expenses associated with the distribution of benefits, the following loads, determined in the 2024 Premium Study, have been added to the liabilities, normal cost, and benefit payments.

PLDs: 9.67%

**11. Technical and Miscellaneous Assumptions**

Decrement Timing: Middle of the valuation year.

Pay Increase Timing: Salary provided is treated as the rate of pay as of the valuation date. Annual increases are applied as of the beginning of each subsequent valuation.

Conversion Charges: Applies to the cost of active group life insurance, not retiree group life insurance.

Form of Benefit Payment: Lump Sum.

Participation Percent for Future Retirees: 100% of those currently enrolled.

Retirement for Participants who are not members of MainePERS: Age 62.

**12. Rationale for Assumptions**

The revised demographic assumptions were adopted by the Board of Trustees at their March 11, 2021, meeting. The revised discount rate was adopted by the Board of Trustees at their August 12, 2021, meeting. The demographic assumptions adopted are based on an experience study covering the period from July 1, 2015 through June 30, 2020, and the economic assumptions are based on this experience study along with advice of the MainePERS investment consultants.

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**13. Changes since Last Valuation**

None

**14. Rationale for Change in Actuarial Assumptions**

Not Applicable

**15. Disclosure of Models used**

***Proval:*** Cheiron utilizes ProVal, an actuarial valuation software leased from Winklevoss Technologies (WinTech) to calculate the liabilities, normal costs, and projected benefit payments. We have relied on WinTech as the developer of ProVal. We have reviewed ProVal and have a basic understanding of it and have used ProVal in accordance with its original intended purpose. We have not identified any material inconsistencies in assumptions or output of ProVal that would affect this actuarial valuation.

***Mortality Improvement Model:*** Cheiron utilized the RPEC\_2014\_v2020 Model Implementation Tool for the purposes of developing the customized version of MP-2020 used in this report. This tool is updated and published annually by the Society of Actuaries and their Retirement Plans Experience Committee and allows actuaries to develop customized versions of mortality improvement scales based on the parameters and data underlying the published MP-2020 scale but allowing practitioners to vary parameters from those used in the published MP-2020 scale.

We have reviewed this model and believe it is appropriate to our intended use in developing a customized mortality improvement scale for the Programs. Further, we are aware of no material inconsistencies that would limit our ability to use this model for its intended purpose.

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**B. Actuarial Methods**

**1. Funding Method**

The individual entry age normal method is used to determine liabilities. Under this funding method, a normal cost rate is calculated for each member. This rate is determined by taking the value, as of age at entry into the Plan, of the member's projected future benefits, and dividing it by the value, also as of the member's entry age of his expected future salary. The normal cost for each member is the product of their annual salary at the valuation date and their normal cost rate. The normal cost amount for the group is then the sum of the normal costs for all members.

The Actuarial Liability is defined as the present value of future benefits, as of the valuation date, for all current members less the present value of future normal costs for all current members. For funding purposes, the Unfunded Actuarial Liability is then equal to the Actuarial Liability, less the actuarial value of the System's assets.

The discount rate used reflects the long-term funding policy to fully fund the benefits on an actuarial basis by FY 2036 for PLDs.

**2. Asset Valuation Method**

Figures were reported by MainePERS without audit or change.

**3. Changes since Last Valuation**

None

**4. Rationale for Change**

N/A

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**APPENDIX B – SUMMARY OF KEY PLAN PROVISIONS**

**Membership**

- Service Retirement: A retiree must have participated in the group life insurance program for at least 10 years and possess coverage just prior to retirement.
- Disability Retirement: An employee must have participated in the group life insurance program immediately prior to disablement.

**Basic Insurance**

Average final compensation is calculated for retirement purposes.

**Amount of Insurance for a Retiree**

- Service Retirement: The Basic Insurance will be reduced by 15% per year until the amount equal to the greater of (a) 40% of the initial Basic Insurance, or (b) \$2,500.
- Disability Retirement: The amount of basic life insurance in force prior to retirement will be continued until normal retirement age. At normal retirement age, the amount of insurance will be reduced as for service retirement.

**Retiree Contribution**

- PLD Employees: PLD must pay \$0.23 biweekly per \$1,000 of base benefit, based on the coverage amounts declining from 100% to 40%. Biweekly rates increase to \$0.24 in FYE 2026 and \$0.25 in FYE 2028.

**Normal Retirement Age**

The specified age, the years of service requirement, or any age and years of service combination at which a participant may become eligible for unreduced service retirement benefits.

**Discontinued Coverages at Retirement**

- Supplemental Life
- Accidental Death and Dismemberment
- Dependent Life

(Discontinued coverage may be ported to another group term product or converted to an individual policy.)

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**APPENDIX C – GLOSSARY OF TERMS**

**1. Actuarially Determined Contribution**

A target or recommended contribution for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.

**2. Actuarial Valuation Date**

The date as of which an actuarial valuation is performed. This date may be up to 24 months prior to the measurement date and up to 30 months prior to the employer's reporting date.

**3. Entry Age Actuarial Cost Method**

The actuarial cost method is required for GASB 74 and 75 calculations. Under this method, the actuarial present value of the projected benefits of each individual, included in an actuarial valuation, is allocated on a level basis over the earnings of the individual between entry age and assumed exit ages. The portion of this actuarial present value allocated to a valuation year is called the Service Cost. The portion of this actuarial present value not provided for at a valuation date by the actuarial present value of future service costs is called the Total OPEB Liability.

**4. Measurement Date**

The date as of which the Total OPEB Liability and Plan Fiduciary Net Position are measured. The Total OPEB Liability may be projected from the Actuarial Valuation Date to the Measurement Date. The Measurement Date must be the same as the Reporting Date for the plan.

**5. Net OPEB Liability**

The liability of employers and non-employer contributing entities for employees for benefits provided through a defined benefit OPEB plan. It is calculated as the Total OPEB Liability less the Plan Fiduciary Net Position.

**6. Plan Fiduciary Net Position**

The fair or market value of assets.

**7. Reporting Date**

The last day of the Plan or employer's fiscal year.

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**APPENDIX C – GLOSSARY OF TERMS**

**8. Service Cost**

The portion of the actuarial present value of projected benefit payments that is attributed to the current period of employee service in conformity with the requirements of GASB 74 and 75. The Service Cost is the normal cost calculated under the entry age actuarial cost method.

**9. Total OPEB Liability**

The portion of the actuarial present value of projected benefit payments that is attributed to past periods of employee service in conformity with the requirements of GASB 74 and 75. The Total OPEB Liability is the actuarial liability calculated under the entry age actuarial cost method.



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