# East Bay Municipal Utility District Employees' Retirement System

#### **Health Insurance Benefit Valuation**

Review of Contribution Rates and Funding Status as of June 30, 2022

This report has been prepared at the request of the Retirement Board to assist in administering the Fund. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Retirement Board and may only be provided to other parties in its entirety, unless expressly authorized by Segal. The measurements shown in this actuarial valuation may not be applicable for other purposes





180 Howard Street, Suite 1100 San Francisco, CA 94105-6147 T 415.263.8200 segalco.com

March 2, 2023

Ms. Sophia Skoda Director of Finance East Bay Municipal Utility District 375 Eleventh Street Oakland, California 94607-4240

Dear Sophia:

We are pleased to submit our Health Insurance Benefit (HIB) Valuation as of June 30, 2022 for the prefunded \$450 (\$550 for a retiree with a spouse or EBMUD domestic partner) monthly health insurance subsidy. The Governmental Accounting Standards Board (GASB) requires employers, such as EBMUD, that pool health insurance premium rates for actives and retirees under age 65 to also calculate the liability associated with such pooled premiums for retirees under age 65 on an accrual basis. While that liability referred to as the implicit subsidy has to be disclosed, it is not required to be prefunded. The contribution rate developed in this report only includes the prefunding requirement for the \$450/\$550 benefit. The obligation required for financial disclosure purposes under GASB Statements No. 74 (plan reporting) and 75 (employer reporting) will be provided in separate reports.

This valuation is based on financial statements and census data furnished by East Bay Municipal Utility District Employees' Retirement System (EBMUDERS). The actuarial calculations were completed under the supervision of Andy Yeung, ASA, MAAA, Enrolled Actuary. The health care trend and other related medical assumptions have been reviewed by Mary Kirby, FCA, FSA, MAAA. The undersigned are members of the American Academy of Actuaries and meet the qualification requirements to render the actuarial opinion contained herein.

Sincerely,

Segal

Andy Yeung, ASA, MAAA, FCA, EA

JAC/jl

Mary Kirby, FSA, MAAA, FCA Senior Vice President and Consulting Actuary

# Table of Contents

| Section 1: Actuarial Valuation Summary                 |   |
|--|---|
| Contribution Recommendations and Funding Status        |   |
| Important Information about Actuarial Valuations       | 7 |
| Section 2: Actuarial Valuation Results                 | 9 |
| A. Introduction  |   |
| B. Determination of Actuarial Value of Assets          |   |
| C. Funding Ratio                                       |   |
| D. Recommended Contribution                            |   |
| E. Reconciliation of Recommended Employer Contribution |   |
| F. Table of Amortization Bases                         |   |
| Section 3: Supplemental Information                    |   |
| Exhibit A: Summary of Participant Data                 |   |
| Section 4: Actuarial Valuation Basis                   |   |
| Exhibit I: Actuarial Assumptions and Methods           |   |
| Exhibit II: Summary of Plan                            |   |



#### **Contribution Recommendations and Funding Status**

• The results of this valuation reflect changes in the economic actuarial assumptions adopted by the Board on January 19, 2023 based on our June 30, 2022 Economic Assumptions Review report dated November 8, 2022. These new assumptions (6.75% investment return, 2.50% inflation, and 3.00% payroll growth) are described in Section 4, Exhibit 1 of this report. These assumption changes resulted in an increase in the combined (1955/1980 Plan and 2013 Tier) employer contribution rate of 0.13% of payroll.

The results of this valuation also reflect a change in the amortization period, from 25 years to 20 years, for any new UAAL layers established on or after July 1, 2021 resulting from assumption or method changes. This change was adopted by the Board on September 22, 2022 based on our Actuarial Funding Policy review letter dated September 14, 2022. This change in the funding policy is described in Section 4, Exhibit 1 of this report.

- The employer contribution rates that Segal recommended for the 2022/2023 Fiscal Year ("recommended rates") were provided in the June 30, 2021 valuation report. Based on the concern that a review of the actuarial assumptions was to be performed prior to this June 30, 2022 valuation and the results of that review would be expected to increase the overall cost of the plan, the Board decided to carry over unchanged for the 2022/2023 Fiscal Year ("adopted rates") the higher total (Pension and HIB Plans) employer contribution rates previously adopted for the 2021/2022 Fiscal Year, as originally determined in the June 30, 2020 valuations. The adopted and recommended aggregate employer rates from the June 30, 2021 valuation (based on June 30, 2022 projected payroll) were 4.67% and 4.64%, respectively.
- The recommended aggregate employer rate is 4.64% based on the June 30, 2022 valuation. A reconciliation of the change in the employer's rate is provided in Section 2, Subsection E. We have maintained the allocation of 0.09% of the member contribution to the HIB plan used in last year's valuation.
- As shown in Section 2, Subsection E, the recommended contribution rate remained unchanged, primarily due to amortizing the prior year's UAAL over a larger than expected payroll, offset by cost increases due to the adoption of new economic assumptions and having higher HIB subsidies than expected.<sup>1</sup>
- The funded ratio measured on a valuation value of assets basis increased from 42.4% at June 30, 2021 to 44.0% at June 30, 2022. The funded ratio if measured on a market value of assets basis decreased from 47.1% to 40.9%. The UAAL increased from \$70.82 million as of June 30, 2021 to \$73.29 million as of June 30, 2022 on valuation value of asset basis,

<sup>&</sup>lt;sup>1</sup> Cost increases related to HIB subsidy amounts were mainly due to the Medicare plan premiums being larger than expected. Although the Medicare plan premiums decreased from 2021 to 2022, the decrease was less than what was anticipated in the June 30 2021 valuation.

primarily as a result of the adoption of new economic assumptions, higher HIB subsidies than projected and unfavorable investment experience.

As indicated in Section 2, Subsection B of this report, the total unrecognized investment <u>loss</u> as of June 30, 2022 is \$157.2 million for the assets for the pension and HIB plans (note that in the previous valuation, this amount was a deferred <u>gain</u> of \$231.0 million). This investment loss will be recognized in the determination of the actuarial value of assets for funding purposes in the next few years. This implies that earning the assumed rate of investment return of 6.75% per year (net of expenses) on a market value basis will produce investment losses on the actuarial value of assets after June 30, 2022.

The deferred losses of \$157.2 million represent 7.6% of the market value of assets as of June 30, 2022. Unless offset by future investment gains or other favorable experience, the recognition of the \$157.2 million market loss is expected to have an impact on the System's future funded percentage and contribution rate requirements. This potential impact may be illustrated as follows:

- If the HIB plan portion of the deferred gains were recognized immediately and entirely in the valuation value of assets, the funded percentage would decrease from 44.0% to 40.9%.
- If the HIB plan portion of the deferred gains were recognized immediately and entirely in the valuation value of assets, the aggregate recommended employer rate would increase from 4.64% to about 4.76% of payroll.
- This report assumes the HIB subsidy limit will remain at the current levels of \$450/\$550. Future increases in the HIB subsidy will increase the cost of the plan as a percent of pay.



• The following tables summarizes the contribution rate recommendations for the employer and the employee:

|                   | June                    | 30, 2022                                |                                    | 80, 2021<br>opted)                      |
|-------------------|-------------------------|---|------------------------------------|---|
| Employer          | Total Rate <sup>1</sup> | Estimated<br>Annual Amount <sup>2</sup> | Adopted Total<br>Rate <sup>1</sup> | Estimated<br>Annual Amount <sup>2</sup> |
| 1955/1980 Plan    | 4.75%                   | \$6,233,000                             | 4.79%                              | \$6,286,000                             |
| 2013 Tier         | 4.52%                   | <u>4,981,000</u>                        | 4.52%                              | 4,986,000                               |
| Combined          | 4.64%                   | \$11,214,000                            | 4.67%                              | \$11,272,000                            |
| Average<br>Member | Total Rate <sup>1</sup> | Estimated<br>Annual Amount <sup>2</sup> | Total Rate <sup>1</sup>            | Estimated<br>Annual Amount <sup>2</sup> |
| 1955/1980 Plan    | 0.09%                   | \$118,000                               | 0.09%                              | \$118,000                               |
| 2013 Tier         | 0.09%                   | <u>99,000</u>                           | 0.09%                              | <u>99,000</u>                           |
| Combined          | 0.09%                   | \$217,000                               | 0.09%                              | \$217,000                               |

The following table compares the valuation value of assets and liabilities for the Health Insurance Benefit as of June 30, 2022 and June 30, 2021:

|  | June 30, 2022     | June 30, 2021     |
|--|-------------------|-------------------|
| 1. Valuation Value of Assets                               | \$57,661,197      | \$52,209,459      |
| 2. Actuarial Accrued Liabilities:                          |                   |                   |
| Current Recipients   | 96,305,707        | 88,450,609        |
| Future Recipients  | <u>34,645,603</u> | <u>34,576,547</u> |
| Total  | \$130,951,310     | \$123,027,156     |
| 3. Liabilities minus Valuation Value of Assets $(2) - (1)$ | \$73,290,113      | \$70,817,697      |
| 4. Funding Ratio (1) ÷ (2)                                 | 44.03%            | 42.44%            |

<sup>1</sup> Payable at the **end** of each pay period.

<sup>2</sup> Based on June 30, 2022 projected annual payroll of:

| 1955/1980 Plan | \$131,236,899      |
|----------------|--------------------|
| 2013 Tier      | <u>110,300,821</u> |
| Combined       | \$241,537,720      |



#### **Important Information about Actuarial Valuations**

An actuarial valuation is a budgeting tool with respect to the financing of future projected obligations of an OPEB plan. It is an estimated forecast – the actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.

In order to prepare a valuation, Segal relies on a number of input items. These include:

| Plan of benefits      | Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. It is important to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan description in this report to confirm that Segal has correctly interpreted the plan of benefits.  |
|-----------------------|--|
| Participant data      | An actuarial valuation for a plan is based on data provided to the actuary by the System. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.   |
| Assets                | This valuation is based on the market value of assets as of the valuation date, as provided by System. The System uses an "Actuarial Value of Assets" that differs from market value to gradually reflect year-to-year changes in the Market Value of Assets in determining the contribution requirements.   |
| Actuarial assumptions | In preparing an actuarial valuation, Segal projects the benefits to be paid to existing plan participants for the rest<br>of their lives and the lives of their beneficiaries. This projection requires actuarial assumptions as to the probability<br>of death, disability, withdrawal, and retirement of each participant for each year. In addition, the benefits projected<br>to be paid for each of those events in each future year reflect actuarial assumptions as to health care plan trend<br>and enrollment. The projected benefits are then discounted to a present value, based on the assumed rate of<br>return that is expected to be achieved on the plan's assets. There is a reasonable range for each assumption<br>used in the projection and the results may vary materially based on which assumptions are selected. It is<br>important for any user of an actuarial valuation to understand this concept. Actuarial assumptions are periodically<br>reviewed to ensure that future valuations reflect emerging plan experience. While future changes in actuarial<br>assumptions may have a significant impact on the reported results that does not mean that the previous<br>assumptions were unreasonable. |
| Models                | Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.  |



The user of Segal's actuarial valuation (or other actuarial calculations) should keep the following in mind:

- The valuation is prepared at the request of the Board. Segal is not responsible for the use or misuse of its report, particularly by any other party.
- An actuarial valuation is a measurement of the plan's assets and liabilities at a specific date. Accordingly, except where otherwise noted, Segal did not perform an analysis of the potential range of future financial measures. The actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.
- If the Board is aware of any event or trend that was not considered in this valuation that may materially change the results of the valuation, Segal should be advised, so that we can evaluate it.
- Segal does not provide investment, legal, accounting, or tax advice. Segal's valuation is based on our understanding of applicable guidance in these areas and of the plan's provisions, but they may be subject to alternative interpretations. The Board should look to their other advisors for expertise in these areas.
- Sections of this report include actuarial results that are not rounded, but that does not imply precision.
- Critical events for a plan include, but are not limited to, decisions about changes in benefits and contributions. The basis for such decisions needs to consider many factors such as the risk of changes in plan enrollment, emerging claims experience, health care trend, and investment losses, not just the current valuation results.
- While Segal maintains extensive quality assurance procedures, an actuarial valuation involves complex computer models and numerous inputs. In the event that an inaccuracy is discovered after presentation of Segal's valuation, Segal may revise that valuation or make an appropriate adjustment in the next valuation.

As Segal has no discretionary authority with respect to the management or assets of the Plan, it is not a fiduciary in its capacity as actuaries and consultants with respect to the Plan.



#### **A. Introduction**

Pursuant to Section 36 of the Ordinance, the Retirement Board is authorized to administer a Health Insurance Benefit (HIB) through an IRC Section 401(h) account. The HIB may be used for the payment of sickness, accident, hospitalization, and medical expenses as permitted under the IRC and as authorized by the Retirement Board. In particular, the Retirement Board has authorized the use of the HIB towards the payment of medical insurance premiums.

This report does not provide information required for disclosure under GASB Statements 74 and 75. Such information will be provided in separate reports.

In this valuation, we have used a layered amortization approach to determine the contribution rate to fund the Unfunded Actuarial Accrued Liability (UAAL).

Plan changes, assumption changes and experience gains/losses prior to July 1, 2011 are amortized over separate decreasing 30year amortization periods. On or after July 1, 2011, through June 30, 2021, plan changes are amortized over separate decreasing 15-year periods; assumption changes from the experience study are amortized over separate decreasing 25-year periods; and experience gains/losses (including year-to-year health assumption changes) are amortized over separate decreasing 20-year periods. On or after July 1, 2021, assumption changes from the experience study or interim review of the economic assumptions are amortized over 20 years. The above payments would continue to be expressed as a level percent of a growing payroll base.

The cost of the HIB is funded by both employer and employee contributions. The contribution rates for the employer are calculated to provide for the ongoing normal cost, plus any amounts necessary to fund any shortfall between the valuation value of assets and the actuarial accrued liabilities.

A summary of the Health Insurance Benefit provisions is displayed in Section 4, Exhibit II.

#### **B.** Determination of Actuarial Value of Assets

To minimize volatility in the calculation of the Actuarially Determined Contribution, the Board has approved an asset valuation method that gradually adjusts to market value over a five-year period. Under this valuation method, the full value of market fluctuations is not recognized in a single year and, as a result, the asset value and the plan costs are more stable. The amount of the adjustment to recognize market value is treated as income, which may be positive or negative. Realized and unrealized gains and losses are treated equally and, therefore, the sale of assets has no immediate effect on the actuarial value.

#### Determination of Actuarial Value of Assets for Year Ended June 30, 2022 (for pension and HIB plans)

| 1. Market value of assets:                        |                          |                    |                             |                     |                      |
|---|--------------------------|--------------------|-----------------------------|---------------------|----------------------|
| (a) Pension plan                                  |                          |                    |                             |                     | \$2,005,352,000      |
| (b) HIB plan                                      |                          |                    |                             |                     | <u>53,571,000</u>    |
| (c) Total   |                          |                    |                             |                     | \$2,058,923,000      |
| 2. Calculation of unrecognized return:            | Actual<br>Return         | Expected<br>Return | Investment<br>Gain / (Loss) | Percent<br>Deferred | Deferred<br>Return   |
| (a) Year ended June 30, 2018                      | \$148,798,000            | \$116,619,368      | \$32,178,632                | 0%                  | \$0                  |
| (b) Year ended June 30, 2019                      | 91,744,000               | 122,306,135        | (30,562,135)                | 20%                 | (6,112,427)          |
| (c) Year ended June 30, 2020                      | 39,376,000               | 127,791,930        | (88,415,930)                | 40%                 | (35,366,372)         |
| (d) Year ended June 30, 2021                      | 491,625,000              | 129,314,710        | 362,310,290                 | 60%                 | 217,386,174          |
| (e) Year ended June 30, 2022                      | (253,930,000)            | 162,455,125        | (416,385,125)               | 80%                 | <u>(333,108,100)</u> |
| (f) Total unrecognized return <sup>1</sup>        |                          |                    |                             |                     | (\$157,200,725)      |
| 3. Preliminary actuarial value: (1c) - (2f)       |                          |                    |                             |                     | \$2,216,123,725      |
| 4. Adjustment to be within 30% corridor of market | t value                  |                    |                             |                     | 0                    |
| 5. Final actuarial value of assets for pension a  | and HIB plans: (3) + (4) |                    |                             |                     | \$2,216,123,725      |
| 6. Actuarial value as a percentage of market valu | e: (5) ÷ (1c)            |                    |                             |                     | 107.6%               |
| 7. Valuation value of HIB plan assets: (1b) ÷ (1  | lc) x (5)                |                    |                             |                     | \$57,661,197         |

<sup>1</sup> Deferred return as of June 30, 2022 that will be recognized in each of the next four years (amounts may not total exactly due to rounding):

| (a) Amount recognized on June 30, 2022            | (\$34,610,580)      |
|---|---------------------|
| (b) Amount recognized on June 30, 2023            | (28,498,153)        |
| (c) Amount recognized on June 30, 2024            | (10,814,967)        |
| (d) Amount recognized on June 30, 2025            | <u>(83,277,025)</u> |
| (e) Total unrecognized return as of June 30, 2022 | (\$157,200,725)     |



#### **C. Funding Ratio**

The funding of the Health Insurance Benefit comes from the following sources:

- 1. The valuation value of HIB assets, which equals \$57,661,197 as of June 30, 2022;
- 2. Contributions from the employer; and
- 3. Contributions from the employees.

The following table provides the funding status of the Health Insurance Benefit as of June 30, 2022 and June 30, 2021:

|  | June 30, 2022 | June 30, 2021     |
|--|---------------|-------------------|
| 1. Valuation Value of Assets                             | \$57,661,197  | \$52,209,459      |
| 2. Actuarial Accrued Liabilities:                        |               |                   |
| Current Recipients                                       | 96,305,707    | 88,450,609        |
| Future Recipients  | 34,645,603    | <u>34,576,547</u> |
| Total  | \$130,951,310 | \$123,027,156     |
| 3. Liabilities minus Valuation Value of Assets (2) – (1) | \$73,290,113  | \$70,817,697      |
| 4. Funding Ratio (1) ÷ (2)                               | 44.03%        | 42.44%            |

The contribution requirements are determined based on the Entry Age Funding Method. The excess of the actuarial accrued liability over assets (Item 3 in the above table) is amortized as a level percentage of payroll for current active members. The employer contribution rates are derived on the following page.



#### **D. Recommended Contribution**

The amount of annual contribution required to find the HIB is comprised of a net employer normal cost payment and a payment on the unfunded actuarial accrued liability. This total amount is then divided by the projected payroll for active members to determine the contribution rate of 4.64% of payroll for this year's valuation compared to 4.64% of payroll recommended for last year's valuation.

#### Recommended Contribution (% of Payroll) Payable at End of Pay Period

|  | June 30, 2022     |                |                       | June 30, 2021<br>(Adopted Rates) |                |                       |
|--|-------------------|----------------|-----------------------|----------------------------------|----------------|-----------------------|
|  | 1955/1980<br>Plan | 2013<br>Tier   | Combined <sup>1</sup> | 1955/1980<br>Plan                | 2013<br>Tier   | Combined <sup>1</sup> |
| 1. Total Normal Cost                                     | 1.08%             | 0.85%          | 0.97%                 | 1.14%                            | 0.84%          | 1.00%                 |
| 2. Expected employee contributions                       | <u>(0.09)%</u>    | <u>(0.09)%</u> | <u>(0.09)%</u>        | <u>(0.09)%</u>                   | <u>(0.09)%</u> | <u>(0.09)%</u>        |
| 3. Employer normal cost: (1) - (2)                       | 0.99%             | 0.76%          | 0.88%                 | 1.05%                            | 0.75%          | 0.91%                 |
| 4. Unfunded actuarial accrued liability                  | <u>3.76%</u>      | <u>3.76%</u>   | <u>3.76%</u>          | <u>3.74%</u> ²                   | <u>3.77%²</u>  | <u>3.76%</u>          |
| 5 Total recommended contribution, end of each pay period | 4.75%             | 4.52%          | 4.64%                 | 4.79%                            | 4.52%          | 4.67%                 |

<sup>1</sup> Based on June 30, 2022 projected annual payroll of:

| 1955/1980 Plan | \$131,236,899 |
|----------------|---------------|
| 2013 Tier      | 110,300,821   |
| Combined       | \$241,537,720 |

<sup>2</sup> The Board decided to carry over unchanged for the 2022/2023 Fiscal Year ("adopted rates") the higher total employer contribution rates for the 2021/2022 Fiscal Year (FY), as originally determined in the June 30, 2020 valuations. (The recommended employer contribution rates for FY 2022/2023 are shown on the following page.) Note that the adopted UAAL rates for FY 2022/2023 for the 1955/1980 Plan and the 2013 Tier are not the same, since the employer normal cost rates remain the same as those rates actuarially determined for the June 30, 2021 valuation in order to reflect the most recent demographic information, and the UAAL rates represent the difference between the total rates and the normal cost rates, which produces said variance in the UAAL rates



### E. Reconciliation of Recommended Employer Contribution

The chart below details the changes in the recommended employer contribution from the prior valuation to the current year's valuation.

|  | Contribution Rate |
|--|-------------------|
| Average Adopted Employer Contribution Rate as of June 30, 2021                     | 4.67%             |
| Average Recommended Employer Contribution Rate as of June 30, 2021                 | 4.64%             |
| Effect of actuarial experience during fiscal 2021/2022                             |                   |
| 1. Effect of investment loss (after smoothing)                                     | 0.00%             |
| 2. Effect of higher than expected growth in total payroll                          | (0.20)%           |
| 3. Effect of one-year lag in implementing contribution rates                       | (0.01)%           |
| 4. Effect of assumption changes  | 0.13%             |
| 5. Effect of higher than expected average HIB subsidy paid and other miscellaneous |                   |
| changes in demographic composition   | <u>0.08%</u>      |
| Total change   | 0.00%             |
| Average Recommended Employer Contribution Rate as of June 30, 2022                 | 4.64%             |



#### F. Table of Amortization Bases

| Туре               | Date<br>Established | Initial<br>Years | Initial<br>Amount | Outstanding<br>Balance | Years<br>Remaining | Annual<br>Payment <sup>1</sup> |
|--------------------|---------------------|------------------|-------------------|------------------------|--------------------|--------------------------------|
| Initial HIB Base   | 6/30/1997           | 30               | \$15,829,000      | \$10,207,243           | 5                  | \$2,190,002                    |
| Combined Base      | 6/30/1998           | 30               | (195,000)         | (142,353)              | 6                  | (25,896)                       |
| Combined Base      | 6/30/1999           | 30               | 6,467,754         | 5,197,363              | 7                  | 824,455                        |
| Combined Base      | 6/30/2000           | 30               | 5,543,694         | 4,804,320              | 8                  | 678,332                        |
| Combined Base      | 6/30/2001           | 30               | 794,097           | 730,681                | 9                  | 93,273                         |
| Combined Base      | 6/30/2002           | 30               | 18,413,242        | 17,769,210             | 10                 | 2,076,192                      |
| Combined Base      | 6/30/2003           | 30               | 6,628,441         | 6,642,402              | 11                 | 717,484                        |
| Combined Base      | 6/30/2004           | 30               | 1,942,176         | 2,054,914              | 12                 | 206,884                        |
| Combined Base      | 6/30/2005           | 30               | 8,019,739         | 8,287,593              | 13                 | 783,048                        |
| Combined Base      | 6/30/2006           | 30               | (1,769,952)       | (1,900,644)            | 14                 | (169,519)                      |
| Experience Loss    | 6/30/2007           | 30               | 2,878,105         | 3,127,665              | 15                 | 264,650                        |
| Combined Base      | 6/30/2008           | 30               | 12,125,015        | 13,276,738             | 16                 | 1,070,450                      |
| Combined Base      | 6/30/2009           | 30               | (1,240,538)       | (1,363,548)            | 17                 | (105,153)                      |
| Combined Base      | 6/30/2010           | 30               | 463,026           | 509,179                | 18                 | 37,684                         |
| Combined Base      | 6/30/2011           | 30               | (60,151)          | (66,029)               | 19                 | (4,704)                        |
| Experience Gain    | 6/30/2012           | 20               | (1,251,821)       | (1,037,218)            | 10                 | (121,191)                      |
| Assumption Changes | 6/30/2012           | 25               | 3,374,832         | 3,337,302              | 15                 | 282,389                        |
| Experience Gain    | 6/30/2013           | 20               | (1,155,658)       | (997,524)              | 11                 | (107,748)                      |
| Experience Loss    | 6/30/2014           | 20               | 21,287            | 18,986                 | 12                 | 1,911                          |
| Assumption Changes | 6/30/2014           | 25               | 2,555,790         | 2,572,372              | 17                 | 198,375                        |
| Experience Gain    | 6/30/2015           | 20               | (810,969)         | (744,018)              | 13                 | (70,298)                       |
| Assumption Changes | 6/30/2016           | 25               | 2,459,846         | 2,498,040              | 19                 | 177,960                        |
| Experience Gain    | 6/30/2016           | 20               | (1,569,600)       | (1,472,690)            | 14                 | (131,350)                      |
| Assumption Changes | 6/30/2017           | 25               | (403,768)         | (410,504)              | 20                 | (28,225)                       |
| Experience Gain    | 6/30/2017           | 20               | (664,072)         | (634,590)              | 15                 | (53,696)                       |

<sup>1</sup> Beginning of year payment, reflecting level percentage of payroll.



#### F. Table of Amortization Bases (continued)

|                    |                     | •                |                   |                        |                    |                                |
|--------------------|---------------------|------------------|-------------------|------------------------|--------------------|--------------------------------|
| Туре               | Date<br>Established | Initial<br>Years | Initial<br>Amount | Outstanding<br>Balance | Years<br>Remaining | Annual<br>Payment <sup>1</sup> |
| Experience Gain    | 6/30/2018           | 20               | \$(2,295,237)     | (2,224,188)            | 16                 | (179,327)                      |
| Assumption Changes | 6/30/2018           | 25               | 2,931,560         | 2,976,699              | 21                 | 198,010                        |
| Experience Gain    | 6/30/2019           | 20               | (504,689)         | (495,241)              | 17                 | (38,192)                       |
| Assumption Changes | 6/30/2020           | 25               | 1,899,682         | 1,921,136              | 23                 | 120,370                        |
| Experience Gain    | 6/30/2020           | 20               | (542,065)         | (536,822)              | 18                 | (39,730)                       |
| Experience Gain    | 6/30/2021           | 20               | (6,818,716)       | (6,794,728)            | 19                 | (484,056)                      |
| Assumption Changes | 6/30/2022           | 20               | 3,202,074         | 3,202,074              | 20                 | 220,165                        |
| Experience Loss    | 6/30/2022           | 20               | 2,976,293         | 2,976,293              | 20                 | 204,641                        |
| Total              |                     |                  |                   | \$73,290,113           |                    | \$8,787,190                    |
|                    |                     |                  |                   |                        |                    |                                |

Note: The equivalent single amortization period is about 10 years.

<sup>1</sup> Beginning of year payment, reflecting level percentage of payroll.



# Section 3: Supplemental Information

#### **Exhibit A: Summary of Participant Data**

|                                 | June 30, 2022 | June 30, 2021 |
|---------------------------------|---------------|---------------|
| Retired Members                 |               | -             |
| Number                          | 1,609         | 1,532         |
| Average age                     | 70.8          | 70.5          |
| Surviving Spouses               |               |               |
| Number                          | 197           | 203           |
| Average age                     | 78.1          | 78.3          |
| Eligible for Deferred Benefit   |               |               |
| Number <sup>1</sup>             | 360           | 327           |
| Average age                     | 48.3          | 48.9          |
| Active Participants             |               |               |
| Number                          | 1,895         | 1,896         |
| Average age                     | 47.2          | 47.4          |
| Average years of service        | 11.4          | 11.6          |
| Average expected retirement age | 62.3          | 62.3          |

<sup>1</sup> Includes inactive members due a refund of Pension Plan member contributions.



#### **Exhibit I: Actuarial Assumptions and Methods**

| Rationale for Assumptions and Methods: | The information and analysis used in selecting each assumption and method that has a significant effect on this actuarial valuation is shown in the July 1, 2016 through June 30, 2020 Actuarial Experience Study report dated November 12, 2020, the Actuarial Funding Policy review letter dated September 14, 2022, the June 30, 2022 Economic Assumptions Review report dated November 8, 2022, and the Retiree Health assumptions letter dated January 12, 2023. Unless otherwise noted, all actuarial assumptions and methods shown below apply to both tiers. |  |  |  |  |
|--|--|--|--|--|--|
| Economic Assumptions                   |  |  |  |  |  |
| Net Investment Return:                 | 6.75%, net of investment and administrative expenses.  |  |  |  |  |
| Inflation:                             | 2.50%  |  |  |  |  |
| Across the Board Salary<br>Increases:  | 0.50%  |  |  |  |  |
| Increases.                             |  | Inflation of 2.50% per year plus real "across the board" salary increases of 0.50% per year, used to amortize the Unfunded Actuarial Accrued Liability as a level percentage of payroll. |  |  |  |
| Payroll Growth:                        |  | eases of 0.50% per year, used to amortize the Unfunde  |  |  |  |
|  |  | · · ·  |  |  |  |
| Payroll Growth:                        | <ul><li>Actuarial Accrued Liability as a level percentage of payroll.</li><li>The annual rate of compensation Increase includes inflation at 2.5</li></ul>   | · · ·  |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll.<br>The annual rate of compensation Increase includes inflation at 2.5 year, plus the following merit and promotional increases:<br>Years of Service  | 0%, plus "across the board" salary increases of 0.50%<br><b>Rate (%)</b>   |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll.<br>The annual rate of compensation Increase includes inflation at 2.5 year, plus the following merit and promotional increases:  | 0%, plus "across the board" salary increases of 0.50%  |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll. The annual rate of compensation Increase includes inflation at 2.5 year, plus the following merit and promotional increases: Years of Service Less than 1  | 0%, plus "across the board" salary increases of 0.50% <b>Rate (%)</b> 6.25   |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll.<br>The annual rate of compensation Increase includes inflation at 2.5<br>year, plus the following merit and promotional increases:<br>Years of Service<br>Less than 1<br>1 – 2   | 0%, plus "across the board" salary increases of 0.50% Rate (%) 6.25 6.00   |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll.         The annual rate of compensation Increase includes inflation at 2.5 year, plus the following merit and promotional increases:         Years of Service         Less than 1 $1-2$ $2-3$  | 0%, plus "across the board" salary increases of 0.50%<br><b>Rate (%)</b><br>6.25<br>6.00<br>5.00   |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll.<br>The annual rate of compensation Increase includes inflation at 2.5 year, plus the following merit and promotional increases:<br>Years of Service<br>Less than 1<br>1-2<br>2-3<br>3-4<br>4-5<br>5-6  | 0%, plus "across the board" salary increases of 0.50%<br><b>Rate (%)</b><br>6.25<br>6.00<br>5.00<br>3.75   |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll.The annual rate of compensation Increase includes inflation at 2.5<br>year, plus the following merit and promotional increases:Years of ServiceLess than 1 $1-2$ $2-3$ $3-4$ $4-5$  | 0%, plus "across the board" salary increases of 0.50%  |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll.The annual rate of compensation Increase includes inflation at 2.5<br>year, plus the following merit and promotional increases:Years of ServiceLess than 1 $1-2$ $2-3$ $3-4$ $4-5$ $5-6$ $6-7$ $7-8$  | 0%, plus "across the board" salary increases of 0.50%  |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll.The annual rate of compensation Increase includes inflation at 2.5<br>year, plus the following merit and promotional increases:Years of ServiceLess than 1 $1-2$ $2-3$ $3-4$ $4-5$ $5-6$ $6-7$ $7-8$ $8-9$  | 0%, plus "across the board" salary increases of 0.50%  |  |  |  |
| Payroll Growth:                        | Actuarial Accrued Liability as a level percentage of payroll.The annual rate of compensation Increase includes inflation at 2.5<br>year, plus the following merit and promotional increases:Years of ServiceLess than 1 $1-2$ $2-3$ $3-4$ $4-5$ $5-6$ $6-7$ $7-8$  | 0%, plus "across the board" salary increases of 0.50%  |  |  |  |

| Demographic Assumptions |   |                |                       |  |  |
|-------------------------|---|----------------|-----------------------|--|--|
| Mortality:              | Post-Retirement Healthy Members:  |                |                       |  |  |
|                         | <ul> <li>Pub-2010 General Healthy Retiree Headcount-Weighted Above-Median Mortality Tables with rates increased by 5% for<br/>males, projected generationally with the two-dimensional mortality improvement scale MP-2020.</li> <li>Post-Retirement Disabled Members:</li> </ul> |                |                       |  |  |
|                         | <ul> <li>Pub-2010 Non-Safety Disabled Retiree Headcount-Weighted Mortality Tables with rates increased by 5% for males,<br/>projected generationally with the two-dimensional mortality improvement scale MP-2020.</li> <li>Pre-Retirement:</li> </ul>                            |                |                       |  |  |
|                         | <ul> <li>Pub-2010 General Employee Headcount-Weighted Above-Median Mortality Tables, projected generationally with the two-<br/>dimensional mortality improvement scale MP-2020.</li> <li>Beneficiaries:</li> </ul>   |                |                       |  |  |
|                         | <ul> <li>Pub-2010 Contingent Survivor Headcount-Weighted Above-Median Mortality Tables with rates increased by 5% for males<br/>and females, projected generationally with the two-dimensional mortality improvement scale MP-2020</li> </ul>                                     |                |                       |  |  |
|                         | The Pub-2010 mortality tables and adjustments<br>measurement date. These mortality tables were<br>mortality improvement between the measurement   | adjusted to fu | iture years using the |  |  |
| Disability Incidence:   |   | Age            | Rate (%)              |  |  |
|                         |   | 25             | 0.000                 |  |  |
|                         | -   | 30             | 0.006                 |  |  |
|                         |   | 35             | 0.022                 |  |  |
|                         |   | 40             | 0.084                 |  |  |
|                         |   | 45             | 0.150                 |  |  |
|                         |   | 50             | 0.170                 |  |  |
|                         |   | 55             | 0.182                 |  |  |
|                         |   | 60<br>65       | 0.220                 |  |  |
|                         |   | 00             | 0.200                 |  |  |

Note: Disability rates are applicable after eight years of service.



| Termination: | Less Than Five Years of Service |                  |          |
|--------------|---------------------------------|------------------|----------|
|              |                                 | Years of Service | Rate (%) |
|              |                                 | Less than 1      | 6.75     |
|              |                                 | 1 – 2            | 4.25     |
|              |                                 | 2 – 3            | 4.00     |
|              |                                 | 3 – 4            | 3.50     |
|              |                                 | 4 – 5            | 2.50     |
|              | Five or More Years of Service   |                  |          |
|              |                                 | Years of Service | Rate (%) |
|              |                                 | 25               | 2.34     |
|              |                                 | 30               | 2.24     |
|              |                                 | 35               | 2.14     |
|              |                                 | 40               | 2.04     |
|              |                                 | 45               | 1.85     |
|              |                                 | 50               | 1.60     |
|              |                                 |                  |          |
|              |                                 | 55               | 1.35     |

#### **Retirement:**

|           | Rate (%)                          |                    |           |  |  |  |
|-----------|-----------------------------------|--------------------|-----------|--|--|--|
|           | 1955/198                          | 0 Plan             |           |  |  |  |
| Age       | Unreduced<br>Pension <sup>1</sup> | Reduced<br>Pension | 2013 Tier |  |  |  |
| 52        | 0.00                              | 0.00               | 1.75      |  |  |  |
| 53        | 0.00                              | 0.00               | 1.75      |  |  |  |
| 54        | 55.00                             | 7.00               | 2.75      |  |  |  |
| 55        | 16.00                             | 7.00               | 4.75      |  |  |  |
| 56        | 16.00                             | 7.00               | 5.75      |  |  |  |
| 57        | 16.00                             | 7.00               | 5.75      |  |  |  |
| 58        | 16.00                             | 7.00               | 5.75      |  |  |  |
| 59        | 16.00                             | 7.00               | 7.75      |  |  |  |
| 60        | 16.00                             | 7.00               | 7.75      |  |  |  |
| 61        | 16.00                             | 12.00              | 10.25     |  |  |  |
| 62        | 16.00                             | N/A <sup>2</sup>   | 18.00     |  |  |  |
| 63        | 16.00                             | N/A                | 15.00     |  |  |  |
| 64        | 16.00                             | N/A                | 9.00      |  |  |  |
| 65        | 16.00                             | N/A                | 23.75     |  |  |  |
| 66        | 27.00                             | N/A                | 23.75     |  |  |  |
| 67        | 27.00                             | N/A                | 32.50     |  |  |  |
| 68        | 27.00                             | N/A                | 35.00     |  |  |  |
| 69        | 27.00                             | N/A                | 38.75     |  |  |  |
| 70 & Over | 100.00                            | N/A                | 100.00    |  |  |  |

<sup>1</sup> For example, a 1955/1980 Plan member age 54 with 30 or more years of service would be eligible for an unreduced pension benefit.

<sup>2</sup> For ages 62 and over, all 1955/1980 Plan members who are eligible for retirement are eligible for an unreduced pension benefit.



| Unknown Data for<br>Participants:                   | Same as those exhibited by members are similar known characteristics. If not specified, members are assumed to be male.   |
|---|---|
| Retirement Age for Inactive<br>Vested Participants: | 59  |
| Percent Married/Domestic<br>Partnership:            | For all active and inactive vested participants: 70% of male members and 35% of female members are assumed to elect spouse/domestic partner HIB coverage at retirement.   |
|   | For retired participants: Actual data included in census.   |
|   | Based on past practice this is not necessarily the same as the percent married/domestic partnership assumption used in the pension valuation. Some of those members may not elect HIB spouse/domestic partner coverage upon retirement due to the additional cost to the member.  |
| Age of Spouse/Domestic<br>Partner:                  | For all active and inactive vested participants, male participants are assumed to have a female spouse who is 3 years younger than the participant and female participants are assumed to have a male spouse who is 2 years older than the participant.   |
| Future Benefit Accruals:                            | 1.0 year of service per year.   |
|   | We have not applied the 0.038 years of additional service for each year of employment, applied in the pension valuation to anticipate conversion of unused sick leave, based on our understanding of the HIB plan provisions.   |
| Actuarial Funding Policy                            |   |
| Actuarial Cost Method:                              | Entry Age Cost Method. Entry Age is the age at the member's hire date. Actuarial Accrued Liability is calculated on an individual basis and is based on costs allocated as a level percentage of compensation. The Normal Cost is calculated on an individual basis where the Entry Age Normal Cost is calculated as the sum of the individual Normal Costs.  |
| Actuarial Value of Assets:                          | Market value of assets (MVA) less unrecognized returns in each of the last five years. Unrecognized returns are equal to the difference between the actual market returns and the expected returns on the market value, and are recognized over a five-year period. The actuarial value of assets (AVA) is limited by a 30% corridor; the AVA cannot be less than 70% of MVA, nor greater than 130% of MVA.   |
| Valuation Value of Assets:                          | The proportion of the Actuarial Value of Assets allocated to the HIB plan, based on the proportion of the MVA attributable to the HIB plan.   |
| Amortization Method:                                | Level percent of payroll  |
| Remaining Amortization<br>Period:                   | Plan changes, assumption changes, and experience gains/losses prior to July 1, 2011 are amortized over separate decreasing 30-year amortization periods. On or after July 1, 2011, through June 30, 2021, plan changes are amortized over separate decreasing 15-year periods; assumption changes are amortized over separate decreasing 25-year periods; and experience gains/losses and retiree health assumption changes are amortized over separate decreasing 20-year periods. On or after July 1, 2021, assumption changes from the experience study or interim review of the economic assumptions are amortized over 20 years. |



| Retiree Health Assumptions         |   |
|------------------------------------|---|
| Participation:                     | 95% of future eligible retirees are assumed to enroll in the HIB plan.  |
|                                    | All current pensioners and beneficiaries with a retiree health insurance cash subsidy were valued.  |
|                                    | For deferred vested members, we assume an election equal to 50% of the future retiree election percent.   |
| Average HIB Subsidy:               | The enrollment percent of 70% is used to estimate the proportion of future retirees expected to participate in the EBMUD medical insurance plans (Kaiser, Blue Cross, Sutter Health Plus<65, and UHC Medicare Advantage PPO 65+). The difference between the 95% of all future retirees expected to be provided with an HIB subsidy and 70% (i.e. 25%) is what we used to anticipate future retirees who receive reimbursement for medical expenses through the HIB plan without being enrolled in an EBMUD medical insurance plan. The HIB subsidy may be used to defray any other allowed health benefits (e.g., Medicare Part B premiums, dental costs) in addition to medical premiums. For current retirees, we have used the HIB on record. For the expected 95% future retirees who received an HIB, we have assumed, based on the average HIB on record for current retirees at 100% vesting level, that: |
|                                    | • Retirees at 100% vesting level under age 65 with single HIB coverage will receive an average \$447 monthly benefit as of July 1, 2022,  |
|                                    | • Retirees at 100% vesting level under age 65 with spouse HIB coverage will receive an average \$522 monthly benefit as of July 1, 2022,  |
|                                    | <ul> <li>Retirees at 100% vesting level age 65 and over with single HIB coverage will receive an average \$439 monthly<br/>benefit as of July 1, 2022, and</li> </ul>   |
|                                    | <ul> <li>Retirees at 100% vesting level age 65 and over with spouse HIB coverage will receive an average \$541 monthly<br/>benefit as of July 1, 2022.</li> </ul>   |
|                                    | The maximum (100% vesting level) monthly HIB subsidy is \$450 for a retiree with single coverage and \$550 for a retiree with spouse/domestic partner coverage  |
| Projected HIB Subsidy<br>Increase: | We have projected the HIB medical benefit to increase with medical trend until it reaches the limits described in the Summary of Plan Provisions. The benefit limits are projected to remain unchanged at the current levels of \$450/\$550.  |

| Rates: | First Fiscal Year (July 1  | , 2022 through June 30  | ), 2023)   | Rate (%)                                     |   |  |
|--------|--|---|--|--|---|--|
|        | Plan   | Anthem Blue<br>Cross PPO,<br>Under Age 65   | Sutter Health<br>Plus HMO,<br>Under Age 65         | Kaiser HMC<br>Under Age 6                    | ,   |  |
|        | Trend to be applied to 2022-2023 Fiscal Yea premium                        |   | 6.89%  | 3.69%  | (2.39)%   | 4.70%  |
|        | promum   | (1.00)/0  | 0.007  | The fiscal yea                               | r trend rates are bas<br>ndar year trend rate     | sed on the                                   |
|        |  | Approximate T   | rend Rate (%)                                      |  | Trend Rate App<br>Calculate Followi<br>Premium (% | ng Year                                      |
|        | Fiscal Yea   | r Non-Medicare  | Medicare (   | Calendar Year                                | Non-Medicare                                      | Medicare                                     |
|        | 2023-2024  | 7.125   | 6.125  | 2023   | 7.25  | 6.25   |
|        | 2024-2025  | 6.875   | 5.875  | 2024   | 7.00  | 6.00   |
|        |  |   |  | 0005   | 0.75  |  |
|        | 2025-2026  | 6.625   | 5.625  | 2025   | 6.75  | 5.75   |
|        | 2025-2026<br>2026-2027   |   | 5.625<br>5.375                                     | 2025   | 6.75  | 5.75<br>5.50                                 |
|        |  | 6.375   |  |  |   |  |
|        | 2026-2027  | 6.375           6.125   | 5.375  | 2026   | 6.50  | 5.50   |
|        | 2026-2027<br>2027-2028   | 6.375       6.125       5.875   | 5.375<br>5.125                                     | 2026<br>2027                                 | 6.50<br>6.25                                      | 5.50<br>5.25                                 |
|        | 2026-2027<br>2027-2028<br>2028-2029  | 6.375       6.125       5.875       5.625   | 5.375<br>5.125<br>4.875                            | 2026<br>2027<br>2028                         | 6.50<br>6.25<br>6.00                              | 5.50<br>5.25<br>5.00                         |
|        | 2026-2027<br>2027-2028<br>2028-2029<br>2029-2030                           | 6.375       6.125       5.875       5.625       5.375   | 5.375<br>5.125<br>4.875<br>4.625                   | 2026<br>2027<br>2028<br>2029                 | 6.50<br>6.25<br>6.00<br>5.75                      | 5.50<br>5.25<br>5.00<br>4.75                 |
|        | 2026-2027<br>2027-2028<br>2028-2029<br>2029-2030<br>2030-2031              | 6.375         6.125         5.875         5.625         5.375         5.125                         | 5.375<br>5.125<br>4.875<br>4.625<br>4.500          | 2026<br>2027<br>2028<br>2029<br>2030         | 6.50<br>6.25<br>6.00<br>5.75<br>5.50              | 5.50<br>5.25<br>5.00<br>4.75<br>4.50         |
|        | 2026-2027<br>2027-2028<br>2028-2029<br>2029-2030<br>2030-2037<br>2031-2032 | 6.375         6.125         5.875         5.625         5.375         5.125         8         4.875 | 5.375<br>5.125<br>4.875<br>4.625<br>4.500<br>4.500 | 2026<br>2027<br>2028<br>2029<br>2030<br>2031 | 6.50<br>6.25<br>6.00<br>5.75<br>5.50<br>5.25      | 5.50<br>5.25<br>5.00<br>4.75<br>4.50<br>4.50 |

#### **Exhibit II: Summary of Plan**

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

| Normal or Unreduced<br>Retirement Eligibility: |  |
|--|--|
| 1955/1980 Plan                                 | Age 65;  |
|  | Age 62 with 5 years of service;                                |
|  | Age 59 with 20 years of service;                               |
|  | Age 54 with 30 years of service;                               |
|  | Other combinations of age and service between ages 54 and 59.  |
| 2013 Tier                                      | Age 67 with 5 years of service (for unreduced benefit)         |
| Early Retirement Eligibility:                  |  |
| 1955/1980 Plan                                 | Age 54 with 5 years of service.                                |
| 2013 Tier                                      | Age 52 with 5 years of service.                                |
| Covered Members:                               | All members with at least 5 years of service.                  |
| Member Contribution Rate:                      | 0.09%  |
| Employer Contribution Rate:                    | 100% of total cost net of the 0.09% rate paid by the employee. |

| Benefit Formula:               | For members entering<br>For members entering the System prior to July 1, 1996, a monthly allowance of up to \$450 (\$550 for married<br>retirees and retirees with EBMUD domestic partners) is paid to retirees with at least five years of full-time service to<br>reimburse member-paid medical expenses.<br>For members entering the System after June 30, 1996, the members shall receive the full monthly allowance |   |                |                            |  |  |
|--------------------------------|--|---|----------------|----------------------------|--|--|
|                                | , , ,, ,   | ercentage below based on years o<br>tired members who had separated |                | o their retirement and who |  |  |
|                                | had at least five years of service also become eligible for the post-employment healthcare benefits based or<br>same vesting schedule.   |   |                |                            |  |  |
|                                |  | Years of Full-time Service  | Percent of HIB |                            |  |  |
|                                |  | Less than 5   | 0%             |                            |  |  |
|                                |  | 5-9   | 25%            |                            |  |  |
|                                |  | 10-14   | 50%            |                            |  |  |
|                                |  | 15-19   | 75%            |                            |  |  |
|                                |  | 20 or more  | 100%           |                            |  |  |
|                                | An eligible surviving spouse/domestic partner may receive a Health Insurance Benefit of up to \$450 per month.   |   |                |                            |  |  |
| Changes in Plan<br>Provisions: | None since the prior valuation   | ı.  |                |                            |  |  |

5753200v3/10419.001

