

April 21, 2022

Mr. James A. Potvin Executive Director Employees' Retirement System of Georgia Two Northside 75, Suite 300 Atlanta, GA 30318-7701

Dear Mr. Potvin:

Enclosed is the "Georgia Employees' Group Term Life Insurance Plan for Pre-Retirement Benefits Report of the Actuary on the Valuation Prepared as of June 30, 2021".

The valuation indicates that no employer contribution is required for the fiscal year ending June 30, 2024 on account of life insurance benefits payable under the Plan for active members who die in service.

Please let us know if there are any questions concerning the report.

Sincerely yours,

Edward J. Hockel

Edward J. Koebel, EA, FCA, MAA Chief Executive Officer

Ben Mobler

Ben Mobley, ASA, FCA, MAAA Consulting Actuary

athy Turcot

Cathy Turcot Principal and Managing Director

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The experience and dedication you deserve



GEORGIA EMPLOYEES' GROUP TERM LIFE INSURANCE PLAN FOR PRE-RETIREMENT BENEFITS

REPORT OF THE ACTUARY ON THE VALUATION PREPARED AS OF JUNE 30, 2021



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April 21, 2022

Board of Trustees Employees' Retirement System of Georgia Two Northside 75, Suite 300 Atlanta, GA 30318-7701

Attention: Mr. James A. Potvin, Executive Director

Members of the Board:

Chapters 47-2 and 47-19 of the Code of Georgia which govern the operation of the Georgia Employees' Group Term Life Insurance Plan provide that the actuary shall make periodic valuations of the contingent assets and liabilities of the Insurance Plan on the basis of regular interest and the tables last adopted by the Board of Trustees. In this report, we have determined liabilities for life insurance benefits payable upon death in active service (Pre-Retirement).

We have submitted the report giving the results of the valuation of the Plan prepared as of June 30, 2021. The report indicates that employee contributions at the rate of 0.05% of active payroll for Old Plan members of the Employees' Retirement System, and 0.02% of active payroll for New Plan members of the Employees' Retirement System, certain members of the Legislative Retirement System and certain members of the Judicial Retirement System are sufficient to support the pre-retirement benefits of the Plan. No employer contribution is required for the fiscal year ending June 30, 2024 for pre-retirement benefits.

In preparing the valuation, the actuary relied on data provided by the Plan. While not verifying data at the source, the actuary performed tests for consistency and reasonableness. Our firm, as actuary, is responsible for all of the actuarial trend data in the financial section of the annual report and the supporting schedules in the actuarial section of the annual report.

In our opinion, the valuation is complete and accurate, and the methodology and assumptions are reasonable as a basis for the valuation. The valuation takes into account the effect of all amendments to the Plan enacted through the 2021 session of the General Assembly.

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Board of Trustees April 21, 2022 Page 2

Effective with the June 30, 2017 valuation, the assumed rate of return will be reduced by 0.10% (10 basis points) from the immediate prior actuarial valuation, as long as the actual rate of return for the fiscal year ending with the current valuation date exceeds the assumed rate of return from the immediate prior actuarial valuation. The assumed rate of return may not decrease below 7.00% net of investment expenses. Since the actual rate of return for the year ending June 30, 2021 was greater than 7.30%, the assumed rate of return used in the current valuation was decreased from 7.30% to 7.20%.

The Plan is funded on an actuarial reserve basis. The actuarial assumptions recommended by the actuary and adopted by the Board are in the aggregate reasonably related to the experience under the Plan and to reasonable expectations of anticipated experience under the Plan. The assumptions and methods used for financial reporting purposes meet the parameters set by Actuarial Standards of Practice (ASOPs). The funding objective of the plan is that contribution rates over time will remain level as a percent of payroll. The valuation method used is the entry age normal cost method. The normal contribution rate to cover current cost has been determined as a level percent of payroll. Gains and losses are reflected in the total unfunded accrued liability which is being amortized on a level dollar basis in accordance with the funding policy adopted by the Board. In our opinion, the Plan is operating on an actuarially sound basis and the sufficiency of the funds to provide the benefits called for by the Plan may be safely anticipated.

This is to certify that the independent consulting actuary is a member of the American Academy of Actuaries and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the retirement system and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the Plan.

We note that as we are preparing this report, the world is in the midst of a pandemic. We have considered available information, but do not believe that there is yet sufficient data to warrant the modification of any of our assumptions at this time.

In order to prepare the results in this report, we have utilized appropriate actuarial models that were developed for this purpose. These models use assumptions about future contingent events along with recognized actuarial approaches to develop the needed results.

Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.



Board of Trustees April 21, 2022 Page 3

The actuarial computations presented in this report are for purposes of determining the recommended funding amounts for the Plan. Use of these computations for purposes other than meeting these requirements may not be appropriate.

Sincerely yours,

Edward J. Hockel

Edward J. Koebel, EA, FCA, MAA Chief Executive Officer

Carthy Turcot

Cathy Turcot Principal and Managing Director

Ben Mobles

Ben Mobley, ASA, FCA, MAAA Consulting Actuary



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Section I – Summary of Principal Results

1. For convenience of reference, the principal results of the valuation and a comparison with the

preceding year's results are summarized below:

| Valuation Date | June 30, 2021 | June 30, 2020 |
|--|---------------------------------------|--|
| Active members: | 18,875 | 21,144 |
| Number Annual compensation | \$ 1,032,218,675 | \$ 1,138,881,646 |
| Retired members: | · · · · · · · · · · · · · · · · · · · | ÷ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Number Insurance amount | N/A N/A | N/A N/A |
| | IWA. | |
| Actuarial Accrued Liability | \$ 8,055,636 | \$ 8,913,647 |
| Fair Value of Assets | \$ 408,323,000 | \$ 319,340,000 |
| Valuation Interest Rate | 7.20% | 7.30% |
| | | |
| Unfunded Actuarial Accrued Liability | \$ (400,267,364) | \$ (310,426,353) |
| Funding Period | N/A* | N/A* |
| Funded Ratio based on Fair Value of Assets | 5,068.8% | 3,582.6% |
| Contributions for Fiscal Year Ending | June 30, 2024 | June 30, 2023 |
| Actuarially Determined Employer Contribution (ADEC) rates: | | |
| Total Normal Rate | 0.10%** | 0.10%** |
| Employee Rates: | | |
| Old Plan Members | 0.05%*** | 0.05%*** |
| New Plan, LRS and JRS Members | 0.02% | 0.02% |
| Employer Normal Rate | 0.08% | 0.08% |
| Accrued Liability Rate | <u>(0.08)%</u> | <u>(0.08)%</u> |
| Total Employer Rate | 0.00% | 0.00% |

* If the unfunded actuarial accrued liability is amortized in accordance with the Board's funding policy, the ADEC is less than \$0, which is not allowed under the funding policy. Therefore, the accrued liability contribution rate has been set to such that the total ADEC equals \$0.

** The normal contribution rate includes administrative expenses.

*** 0.03% paid by employer.





Section I – Summary of Principal Results

- We have determined liabilities separately for life insurance benefits payable upon death in active service (pre-retirement) and those payable upon death after retirement (post-retirement). Separate trusts for pre-retirement life insurance benefits and post-retirement life insurance benefits were established and assets were split during 2007.
- 3. The major benefit and contribution provisions of the Plan as reflected in the valuation are summarized in Schedule G. The valuation takes into account the effect of all amendments of the Plan enacted through the 2021 session of the General Assembly. There have been no changes since the previous valuation.
- 4. Schedule C of this report outlines the full set of actuarial assumptions and methods used in the valuation. Effective with the June 30, 2017 valuation, the assumed rate of return will be reduced by 0.10% (10 basis points) from the immediate prior actuarial valuation, as long as the actual rate of return for the fiscal year ending with the current valuation date exceeds the assumed rate of return from the immediate prior actuarial valuation. The assumed rate of return may not decrease below 7.00% net of investment expenses. Since the actual rate of return for the year ending June 30, 2021 was greater than 7.30%, the assumed rate of return used in the current valuation was decreased from 7.30% to 7.20%.
- 5. The Board Funding Policy as adopted by the Board on March 15, 2018 is shown in Schedule E.
- Comments on the valuation results as of June 30, 2021 are given in Section IV and further discussion of the contribution levels is set out in Section V.
- We have prepared the Solvency Test for the Plan's Annual Comprehensive Financial Report. This table is shown in Schedule H.





Section II – Membership Data

Data regarding the membership of the Plan for use as a basis for the valuation were furnished by the Retirement System office. The following table shows the number of active members and their annual compensation as of June 30, 2021 on the basis of which the valuation was prepared.

| GROUP | NUMBER | ANNUAL COMPENSATION |
|-------------------------------|----------------|------------------------|
| ERS Old Plan | 22 | \$ 1,933,208 |
| ERS New Plan | 18,633 | 1,008,594,834 |
| Legislative Retirement System | 52 | 901,767 |
| Judicial Retirement System | <u> 168</u> | 20,788,866 |
| Total | 18,875 | \$ 1,032,218,675 |

THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS AS OF JUNE 30, 2021





Section III – Assets

- In 2007, separate trusts were established for pre-retirement life insurance benefits and for postretirement life insurance benefits and assets were split based on actuarial accrued liabilities. Assets in excess of what were actuarially required were transferred to ERS Survivor Benefit Fund.
- As of June 30, 2021, the total fair value of pre-retirement assets amounted to \$408,323,000 as reported by the independent auditor of the Plan. The fair value of assets is used for the June 30, 2021 valuation.
- 3. Schedule B shows receipts and disbursements of the Plan for the two years preceding the valuation date and a reconciliation of the fund balances at fair value.





Section IV – Comments of Valuation

- Schedule A of this report outlines the results of the actuarial valuation for pre-retirement life insurance benefits. The valuation was prepared in accordance with the actuarial assumptions set forth in Schedule C.
- 2. The valuation shows that the Plan has an actuarial accrued liability of \$8,055,636 for benefits expected to be paid on account of death while in active membership. Against these liabilities, the Plan has present assets for valuation purposes of \$408,323,000. Therefore, the unfunded actuarial accrued liability is equal to (\$400,267,364).
- 3. The funding policy adopted by the Board, as shown in Schedule E, provides that the unfunded actuarial accrued liability as of June 20, 2013 (Transitional UAAL) will be amortized as a level dollar amount over a closed 20-year period. In each subsequent valuation all benefit changes, assumption and method changes and experience gains and/or losses that have occurred since the previous valuation will determine a New Incremental UAAL. Each New Incremental UAAL will be amortized as a level dollar as a level dollar amount over a closed 20-year period from the date it is established.
- 4. The total UAAL contribution rate is (4.30)% of payroll, determined in accordance with the Board's funding policy. However, since this payment would cause the total employer contribution to be less than \$0, the final UAAL contribution rate is determined to be (0.08)%.
- Schedule F of this report shows the amortization schedules for the Transitional UAAL and the New Incremental UAALs.





Section IV – Comments of Valuation

6. The following table shows the components of the total UAAL and the derivation of the UAAL contribution rate in accordance with the funding policy:

| | Remaining Balance <u>UAAL</u> | Remaining Amortization <u>Period (years)</u> | Amortization <u>Payment</u> |
|-----------------------------------|-------------------------------------|--|--------------------------------|
| Transitional | \$(126,634,925) | 12 | \$(16,113,955) |
| New Incremental 6/30/2014 | (28,694,828) | 13 | (3,472,385) |
| New Incremental 6/30/2015 | (20,324,019) | 14 | (2,351,900) |
| New Incremental 6/30/2016 | (10,667,783) | 15 | (1,186,104) |
| New Incremental 6/30/2017 | (29,433,196) | 16 | (3,157,143) |
| New Incremental 6/30/2018 | (28,093,691) | 17 | (2,917,487) |
| New Incremental 6/30/2019 | (25,794,012) | 18 | (2,601,384) |
| New Incremental 6/30/2020 | (28,626,250) | 19 | (2,811,355) |
| New Incremental 6/30/2021 | <u>(101,998,660)</u> | 20 | <u>(9,778,123)</u> |
| Total UAAL | \$(400,267,364) | | \$(44,389,836) |
| Estimated Payroll | | | \$1,032,218,675 |
| Calculated UAAL Contribution Rate | | | (4.30)% |
| Final UAAL Contribution Rate* | | | (0.08)% |
| Blended Amortization Period* | | N/A | |

TOTAL UAAL AND UAAL CONTRIBUTION RATE

I the unfunded actuarial accrued liability is amortized in accordance with the Board's funding policy, the ADEC is less than \$0, which is not allowed under the funding policy. Therefore, the accrued liability contribution rate has been set to such that the total ADEC equals \$0.





Section V – Contributions

- 1. The contribution rate of employers consists of a normal contribution rate and an accrued liability contribution rate.
- 2. The normal contribution rate is calculated as the level dollar which, if applied to each member during the entire period of anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on behalf of the member. The normal contribution rate is determined to be 0.09% of payroll for pre-retirement benefits.
- 3. An additional \$80,000 or 0.01% of payroll is required to fund the administrative expenses of the Plan.
- 4. The total normal contribution rate including administrative expenses is therefore, 0.10% of payroll.
- 5. The member contribution rate made by or on behalf of ERS Old Plan members is 0.05% of payroll and the member contribution rate made by ERS New Plan members, certain LRS members and certain JRS members is 0.02% of payroll. The employer normal contribution rate is determined to be 0.08% of payroll for pre-retirement benefits.
- 6. If the unfunded accrued liability is amortized in accordance with the funding policy the total employer contribution rate would be less than 0%. Since the funding policy also states that the total employer contribution rate cannot be less than 0%, the accrued liability contribution rate for pre-retirement benefits is set equal to (0.08%) of active members' payroll and there is no required contribution for the pre-retirement benefits.





Section VI – Accounting Information

The following is provided for informational purposes.

1. The schedule of funding progress is shown below.

| Actuarial Valuation <u>Date</u> | Fair Value of Assets <u>(a)</u> | Actuarial Accrued Liability (AAL) <u>(b)</u> | Unfunded AAL (UAAL) <u>(b-a)</u> | Funded Ratio <u>(a / b)</u> | Covered Payroll <u>(c)</u> | UAAL as a Percentage of Covered Payroll <u>((b-a)/c)</u> |
|---------------------------------------|--|---|---|-------------------------------------|------------------------------------|---|
| 6/30/2016 | \$ 240,985,000 | \$ 15,610,355 | \$ (225,374,645) | 1,543.8% | \$ 1,442,023,957 | (15.6)% |
| 6/30/2017* | 267,286,000 | 15,677,189 | (251,608,801) | 1,704.9 | 1,394,394,570 | (18.0) |
| 6/30/2018* | 289,207,000 | 15,172,626 | (274,034,374) | 1,906.1 | 1,323,540,523 | (20.7) |
| 6/30/2019 | 305,877,000 | 14,083,413 | (291,793,587) | 2,171.9 | 1,213,173,877 | (24.1) |
| 6/30/2020# | 319,340,000 | 8,913,647 | (310,426,353) | 3,582.6 | 1,138,881,646 | (27.3) |
| 6/30/2021* | 408,323,000 | 8,055,636 | (400,267,364) | 5,068.8 | 1,032,218,675 | (38.8) |

* Reflects change in assumed rate of return

Reflects change in actuarial assumptions

2. The information presented in the required supplementary schedules was determined as part of the actuarial valuation on June 30, 2021. Additional information as of the latest actuarial valuation follows.

| Valuation date | 6/30/2021 | |
|-------------------------------|----------------------|--|
| Actuarial cost method | Entry age | |
| Amortization method | Level dollar open | |
| Remaining amortization period | N/A* | |
| Asset valuation method | Fair Value of Assets | |
| Actuarial assumptions: | | |
| Investment Rate of Return** | 7.20% | |
| Projected Salary Increases | | |
| ERS** | 3.00 - 6.75% | |
| JRS** | 3.75% | |
| LRS | N/A | |

* The remaining amortization period is infinite.

** Includes inflation at 2.50%.





Schedule A – Valuation Results

| (1) | ACTUARIAL ACCRUED LIABILITY FOR: | | |
|-----|--|---------------|---------------|
| | Benefits payable on account of present retired members | \$ | 0 |
| | Benefits payable on account of present active members | 8,0 | <u>55,636</u> |
| | TOTAL ACTUARIAL ACCRUED LIABILITY | <u>\$ 8,0</u> | 55,636 |
| (2) | PRESENT ASSETS FOR VALUATION PURPOSES: | \$ 408,3 | 23,000 |
| (3) | UNFUNDED ACTUARIAL ACCRUED LIABILITY: (1)-(2) | \$ (400,2 | 67,364) |
| (4) | EMPLOYER NORMAL CONTRIBUTION RATE: | | 0.08% |
| (5) | ACCRUED LIABILITY CONTRIBUTION: | | <u>(0.08)</u> |
| (6) | TOTAL EMPLOYER CONTRIBUTION: (4)+(5) | | 0.00% |





Schedule B – Summary of Receipts and Disbursements

| | YEAR ENDING | | | |
|---|-----------------------|-----------------------|--|--|
| Receipts for the Year | <u>June 30, 2021</u> | <u>June 30, 2020</u> | | |
| | | | | |
| Insurance Premiums | \$ 521,000 | \$ 547,000 | | |
| Investment Earnings | 93,409,000 | 16,584,000 | | |
| TOTAL | \$ 93,930,000 | \$ 17,131,000 | | |
| Disbursements for the Year | | | | |
| Death Benefits | \$ 4,870,000 | \$ 3,588,000 | | |
| Administration Expense | 80,000 | 80,000 | | |
| TOTAL | \$ 4,947,000 | \$ 3,668,000 | | |
| Excess of Receipts over Disbursements | \$ 88,983,000 | \$ 13,463,000 | | |
| Reconciliation of Asset Balances | | | | |
| Asset Balance as of the Beginning of Year | \$ 319,340,000 | \$ 305,877,000 | | |
| Excess of Receipts over Disbursements | <u> </u> | <u>13,463,000</u> | | |
| Asset Balance as of the End of Year | <u>\$ 408,323,000</u> | <u>\$ 319,340,000</u> | | |
| Rate of Return* | 29.5% | 5.4% | | |

* Calculated assuming cash flow occurs in the middle of the year





Actuarial assumptions and methods adopted by the Board December 17, 2020. Valuation interest rate adopted by the Board March 15, 2018.

VALUATION INTEREST RATE: 7.20% per annum, compounded annually, net of investment expenses, composed of a 2.50% inflation assumption and a 4.70% real rate of investment return assumption.

SALARY INCREASES: The assumed annual rates of salary increase are as follows:

| Members of Employees' Retirement System (ERS) | | |
|--|-------|--|
| Service | Rate | |
| 1 | 6.75% | |
| 2 | 5.75 | |
| 3 | 5.25 | |
| 4 | 5.00 | |
| 5 | 4.75 | |
| 10 | 4.30 | |
| 15 | 4.05 | |
| 20 | 3.80 | |
| 25 | 3.55 | |
| 30 | 3.30 | |
| 35 & Over | 3.00 | |

Members of Judicial Retirement System (JRS): 3.75%

No salary increases are assumed for members of the Legislative Retirement System (LRS).

SEPARATIONS BEFORE RETIREMENT: Representative values of the assumed annual rates of separation other than retirement are as follows.

| | Annual Rates of Disability | | | | | |
|-----|----------------------------|----------------|-------------|----------------|--|--|
| | | ERS Membe | rs | | | |
| | Non-Law E | Inforcement | Law | JRS | | |
| Age | <u>Males</u> | Females | Enforcement | <u>Members</u> | | |
| 25 | 0.000 | 0.000 | 0.000 | 0.0125 | | |
| 30 | 0.010 | 0.005 | 0.050 | 0.0250 | | |
| 35 | 0.040 | 0.010 | 0.125 | 0.0375 | | |
| 40 | 0.200 | 0.085 | 1.125 | 0.0500 | | |
| 45 | 0.375 | 0.215 | 2.625 | 0.0875 | | |
| 50 | 0.625 | 0.365 | 3.625 | 0.1250 | | |
| 55 | 0.875 | 0.565 | 4.125 | 0.2250 | | |
| 60 | | | | 0.3625 | | |
| 65 | | | | 0.5875 | | |





| Annual Rates of Withdrawal | | | | | |
|-----------------------------------|------------|------------------|----------------------|--|--|
| ERS Members – Non-Law Enforcement | | | | | |
| | | Years of Service | | | |
| Age | <u>0-4</u> | <u>5-9</u> | <u>10 & Over</u> | | |
| | | <u>Males</u> | | | |
| 20 | 40.00% | | | | |
| 25 | 30.00 | 16.25% | | | |
| 30 | 25.00 | 12.50 | 8.00% | | |
| 35 | 23.00 | 10.50 | 6.25 | | |
| 40 | 20.00 | 9.50 | 4.75 | | |
| 45 | 20.00 | 8.50 | 4.00 | | |
| 50 | 17.00 | 7.25 | 4.50 | | |
| 55 | 15.00 | 6.75 | 4.75 | | |
| 60 | 14.50 | 5.50 | | | |
| 65 | 14.50 | 12.50 | | | |
| | | <u>Females</u> | | | |
| 20 | 35.00% | | | | |
| 25 | 27.00 | 18.00% | | | |
| 30 | 23.00 | 12.50 | 9.00% | | |
| 35 | 20.00 | 10.25 | 6.50 | | |
| 40 | 18.00 | 9.00 | 5.25 | | |
| 45 | 17.00 | 8.00 | 4.25 | | |
| 50 | 16.00 | 7.50 | 4.25 | | |
| 55 | 15.00 | 7.25 | 4.25 | | |
| 60 | 15.50 | 7.00 | | | |
| 65 | 16.50 | 12.00 | | | |

| Annual Rates of Withdrawal | | | | | | | |
|----------------------------|--|----------------------|----------------|----------------|--|--|--|
| | ERS Members - Law Enforcement LRS JRS | | | | | | |
| <u>Age</u> | <u>0-9</u> | <u>10 & Over</u> | <u>Members</u> | <u>Members</u> | | | |
| 20 | 11.00% | | 9.00% | 5.00% | | | |
| 25 | 6.50 | 3.00% | 9.00 | 5.00 | | | |
| 30 | 5.25 | 3.00 | 9.00 | 5.00 | | | |
| 35 | 5.25 | 3.00 | 9.00 | 5.00 | | | |
| 40 | 5.25 | 2.50 | 10.00 | 4.00 | | | |
| 45 | 5.25 | 2.50 | 11.00 | 3.50 | | | |
| 50 | 5.25 | 2.50 | 9.25 | 2.75 | | | |
| 55 | | | 8.00 | 2.75 | | | |
| 60 | | | 8.00 | 2.50 | | | |
| 65 | | | 8.00 | 2.50 | | | |



Georgia Employees' Group Term Life Insurance Plan for Pre-Retirement Benefits Page 12 Report of the Actuary on the Valuation Prepared as of June 30, 2021



RETIREMENT: Representative values of the assumed annual rates of service retirement are as follows.

| | Non-Law Enforcement Old Plan | | | | | | | |
|-----|---------------------------------|---------|-----------|----------|--------|--------|--------------------|--------|
| Age | Early Ret | irement | Age 60 or | 30 years | 34 y | ears | More than 34 years | |
| | Male | Female | Male | Female | Male | Female | Male | Female |
| 50 | 2.0% | 2.0% | 7.5% | 6.0% | 100.0% | 100.0% | 90.0% | 100.0% |
| 52 | 2.0 | 2.0 | 7.5 | 6.0 | 100.0 | 100.0 | 90.0 | 100.0 |
| 55 | 3.0 | 3.5 | 7.5 | 10.0 | 100.0 | 100.0 | 75.0 | 90.0 |
| 57 | 3.0 | 5.0 | 10.5 | 10.0 | 100.0 | 100.0 | 70.0 | 70.0 |
| 60 | | | 15.0 | 20.0 | 97.5 | 95.0 | 40.0 | 55.0 |
| 62 | | | 32.0 | 40.0 | 97.5 | 95.0 | 40.0 | 65.0 |
| 65 | | | 35.0 | 40.0 | 35.0 | 40.0 | 35.0 | 40.0 |
| 67 | | | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| 70 | | | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| 75 | | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

<u>ERS</u>

| | Non-Law Enforcement New Plan and GSEPS | | | | |
|--|---|---------------------------|---|---|--|
| Age | Early Ret | tirement | Normal R | etirement | |
| | Male | Female | Male* | Female** | |
| 50 52 55 57 60 62 65 67 70 | 5.0% 5.0 6.0 6.0 | 3.8% 3.8 5.8 7.3 | 60.0% 50.0 50.0 45.0 25.0 37.5 32.0 32.0 30.0 | 42.0% 42.0 40.0 37.0 28.0 37.5 33.0 32.0 30.0 | 75.0% 60.0 15.0 15.0 30.0 35.0 25.0 25.0 100.0 |

* An additional 20% are assumed to retire in the first year eligible for unreduced retirement with 30 years of service before age 60.

** An additional 25% for ages below 53 and 20% for ages 53 to 59 are assumed to retire in the first year eligible for unreduced retirement with 30 years of service before age 60.





| Annual Rates of Retirement | | | | | |
|----------------------------|-----|-----|--|--|--|
| Age | LRS | JRS | | | |
| 60 | 8% | 15% | | | |
| 61 | 8 | 10 | | | |
| 62 | 12 | 10 | | | |
| 63 - 64 | 8 | 10 | | | |
| 65 | 10 | 13 | | | |
| 66 – 67 | 10 | 15 | | | |
| 68 | 10 | 18 | | | |
| 69 | 15 | 18 | | | |
| 70 – 77 | 15 | 25 | | | |
| 78 – 79 | 15 | 100 | | | |
| 80 | 100 | 100 | | | |

RATES OF DEATH BEFORE RETIREMENT: The Pub-2010 General Employee Table, with no adjustments, projected generationally with the MP-2019 scale is used for both males and females while in active service. Representative values of the assumed annual rates of mortality while in active service are as follows:

| | Annual Rates of Death* | | | | | |
|-----|------------------------|---------|-----|---------|---------|--|
| Age | Males | Females | Age | Males | Females | |
| 20 | 0.0370% | 0.0130% | 45 | 0.0980% | 0.0560% | |
| 25 | 0.0280 | 0.0090 | 50 | 0.1490 | 0.0830 | |
| 30 | 0.0360 | 0.0150 | 55 | 0.2190 | 0.1230 | |
| 35 | 0.0470 | 0.0230 | 60 | 0.3190 | 0.1860 | |
| 40 | 0.0660 | 0.0360 | 65 | 0.4680 | 0.2960 | |

Base mortality rates as of 2010 before application of the improvement scale

RATES OF DEATHS AFTER RETIREMENT: The Pub-2010 Family of Tables projected generationally with MP-2019 scale and with further adjustments are used for post-retirement mortality assumptions as follows:

| Participant Type | Membership Table | Set Forward (+)/ Setback (-) | Adjustment to Rates |
|---------------------|---------------------------------|---------------------------------|--------------------------|
| Service Retirees | General Healthy Annuitant | Male: +1; Female: +1 | Male: 105%; Female: 108% |
| Disability Retirees | General Disabled | Male: -3; Female: 0 | Male: 103%; Female: 106% |
| Beneficiaries | General Contingent Survivors | Male: +2; Female: +2 | Male: 106%; Female: 105% |





| Annual Rates of Death* | | | | | | |
|------------------------|------------|-----------|--------------|-----------|---------|---------|
| | Service Re | etirement | Disability R | etirement | Benefic | ciaries |
| Age | Males | Females | Males | Females | Males | Females |
| 50 | 0.3371% | 0.2516% | 1.2576% | 1.5720% | 0.7918% | 0.3843% |
| 55 | 0.4861 | 0.3251 | 1.8725 | 1.8465 | 0.9402 | 0.5334 |
| 60 | 0.6941 | 0.4493 | 2.3484 | 2.0734 | 1.1978 | 0.7529 |
| 65 | 1.0532 | 0.7366 | 2.7573 | 2.3914 | 1.7257 | 1.1057 |
| 70 | 1.7882 | 1.2863 | 3.4536 | 3.0337 | 2.7157 | 1.7000 |
| 75 | 3.1448 | 2.2799 | 4.4743 | 4.2432 | 4.3036 | 2.7500 |
| 80 | 5.6427 | 4.0900 | 6.0986 | 6.3674 | 6.8879 | 4.6778 |
| 85 | 10.0958 | 7.6043 | 8.8220 | 9.8909 | 11.3049 | 8.4315 |
| 90 | 16.9785 | 13.8596 | 12.9831 | 14.4849 | 18.6083 | 14.6496 |

Representative values of the assumed annual rates of mortality are as follows:

Base mortality rates as of 2010 before application of the improvement scale

ASSETS: Fair value of assets.

ACTUARIAL COST METHOD: Entry Age Normal Actuarial Cost Method. Actuarial gains and losses are reflected in the unfunded actuarial accrued liability (UAAL). See Schedule D for a brief description of this method.

ADMINISTRATIVE EXPENSES: Administrative expenses equal to \$80,000 are added to the normal cost contribution.





Schedule D – Actuarial Cost Method

- 1. The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 7.20%), of each member's expected benefits at death in active service is determined, based on age, service and sex. The calculations take into account the probability of a member's termination of employment, as well as the possibility of his terminating with a service, disability or survivor's benefit.
- The employer contributions required to support the benefits of the Plan are determined following a level funding approach, and consist of a normal contribution and an unfunded actuarial accrued liability contribution.
- 3. The normal contribution is determined using the entry age actuarial cost method. Under this method, a calculation is made to determine the level amount which, if applied for the average member during the entire period of his anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on his behalf.
- 4. The unfunded actuarial accrued liability contributions are determined by subtracting the present value of prospective employer normal contributions and member contributions, together with the current actuarial value of assets, from the present value of expected benefits to be paid from the Plan.





Schedule E – Funding Policy #1 of the SEAD Board of Directors

The purpose of this Funding Policy is to state the overall objectives for the Georgia Employees' Group Term Life Insurance Plan for Pre-Retirement Benefits (System), the benchmarks that will be used to measure progress in achieving those goals, and the methods and assumptions that will be employed to develop the benchmarks. It is the intent of the State Employees' Assurance Department Board of Directors that the Funding Policy outlined herein will remain unchanged until the objectives below are met.

I. Funding Objectives

The goal in requiring employer and member contributions to the System is to accumulate sufficient assets during a member's employment to fully finance the benefits the member's beneficiary is expected to receive in the event of the death of the member prior to the member's retirement. In meeting this objective, the System will strive to meet the following funding objectives:

- To develop a pattern of contribution rates expressed as a percentage of employer payroll and measured by valuations prepared in accordance with applicable State laws and the principles of practice prescribed by the Actuarial Standards Board.
- To maintain a stable funded ratio (ratio of actuarial value of assets to actuarial accrued liabilities) that reflects a trend of strong actuarial condition. The long-term objective is to maintain at least a 100% funded ratio over a reasonable period of future years.
- To maintain adequate asset levels to finance the benefits promised to members and monitor the future demand for liquidity.
- To promote intergenerational equity for taxpayers with respect to contributions required for the benefits provided by the System.

II. Measures of Funding Progress

To track progress in achieving the System's funding objectives, the following measures will be determined annually as of the actuarial valuation date (with due recognition that a single year's results may not be indicative of long-term trends):

- **Funded Ratio** The funded ratio, defined as the actuarial value of assets divided by the actuarial accrued liability, should remain stable over time, before adjustments for changes in benefits, actuarial methods, and/or actuarial adjustments. The target funded ratio will be 100 percent. In the event that the funded ratio falls below 100%, the targeted funded ratio will be 100% within 20 years of the date the funded ratio first falls below 100%.
- Unfunded Actuarial Accrued Liability (UAAL)
 - **Transitional UAAL** The UAAL established as of the initial valuation date for which this funding policy is adopted shall be known as the Transitional UAAL.
 - New Incremental UAAL Each subsequent valuation will produce a New Incremental UAAL consisting of all benefit changes, assumption and method changes and experience gains and/or losses that have occurred since the previous valuations.
- UAAL Amortization Period
 - The transitional UAAL will be amortized over a closed 20 year period beginning on the initial valuation date for which this funding policy is adopted.
 - Each New Incremental UAAL shall be amortized over a closed 20 year period beginning with the year it is incurred.
- Employer Contribution Rate
 - **Employer Normal Contribution Rate** the contribution rate determined as of the valuation date each year to fund the employer portion of the annual normal cost of the System based on the assumptions and methods adopted by the Board.
 - In each valuation subsequent to the adoption of this funding policy the required employer contribution rate will be determined as the summation of the employer Normal Contribution Rate, a contribution rate for administrative expenses, the amortization rate





Schedule E – Funding Policy #1 of the SEAD Board of Directors

for the Transitional UAAL and the individual amortization rate for each of the New Incremental UAAL bases.

- \circ $\,$ In no event shall the employer contribution rate be less than 0%.
- The valuation methodology, including the amortization of the Unfunded Actuarial Accrued Liability (UAAL), would be expected to maintain reasonably stable contribution rates as a dollar per active member.

III. Methods and Assumptions

The annual actuarial valuations providing the measures to assess funding progress will utilize the actuarial methods and assumptions last adopted by the Board based upon the advice and recommendations of the actuary. These include the following primary methods and assumptions:

- The actuarial cost method used to develop the benchmarks will be the Projected Unit Credit (PUC) actuarial cost method.
- The long-term annual investment rate of return assumption will be:
 - Effective with the June 30, 2013 valuation date, 7.50% net of investment expenses.
 - Effective with the June 30, 2017 valuation date, reduced by 0.10% (10 basis points) from the immediate prior actuarial valuation, as long as the following conditions are met:
 - The actual rate of return for the fiscal year ending with the current valuation date exceeds the assumed rate of return from the immediate prior actuarial valuation, and
 - The assumed rate of return does not decrease below 7.00% net of investment expenses.
- The actuarial value of assets will be equal to the market value of assets as of the valuation date.

The employer contribution rates determined in an annual actuarial valuation will be at least sufficient to satisfy the annual normal cost of the System and amortize the UAAL as a level dollar amount over a period not to exceed 20 years. However in no event shall the employer contribution rate be less than 0%.

The actuary shall conduct an investigation into the System's experience at least every five years and utilize the results of the investigation to form the basis for recommended assumptions and methods. Any changes to the recommended assumptions and methods that are approved by the Board will be reflected in this Policy.

IV. Funding Policy Progress

The Board will periodically have actuarial projections of the valuation results performed to assess the current and expected future progress towards the overall funding goals of the System. These periodic projections will provide the expected valuation results over at least a 10-year period. The projected measures of funding progress and the recent historical trend provided in valuations will provide important information for the Board's assessment of the System's funding progress.

Adopted: March 15, 2018





| Valuation Date | Amortization Period | Balance of Transitional UAAL | Expected UAAL Contribution |
|-------------------|------------------------|---------------------------------|-------------------------------|
| 6/30/2013 | 20 | \$ (167,266,267) | \$ (16,407,515) |
| 6/30/2014 | 19 | (163,403,722) | (16,407,515) |
| 6/30/2015 | 18 | (159,251,487) | (16,407,515) |
| 6/30/2016 | 17 | (154,787,834) | (16,407,515) |
| 6/30/2017 | 16 | (149,989,406) | (16,300,885) |
| 6/30/2018 | 15 | (144,787,738) | (16,199,456) |
| 6/30/2019 | 14 | (139,157,787) | (16,199,456) |
| 6/30/2020 | 13 | (133,116,850) | (16,199,456) |
| 6/30/2021 | 12 | (126,634,925) | (16,113,955) |
| 6/30/2022 | 11 | (119,638,684) | (16,113,955) |
| 6/30/2023 | 10 | (112,138,715) | (16,113,955) |
| 6/30/2024 | 9 | (104,098,747) | (16,113,955) |
| 6/30/2025 | 8 | (95,479,902) | (16,113,955) |
| 6/30/2026 | 7 | (86,240,500) | (16,113,955) |
| 6/30/2027 | 6 | (76,335,861) | (16,113,955) |
| 6/30/2028 | 5 | (65,718,088) | (16,113,955) |
| 6/30/2029 | 4 | (54,335,836) | (16,113,955) |
| 6/30/2030 | 3 | (42,134,061) | (16,113,955) |
| 6/30/2031 | 2 | (29,053,759) | (16,113,955) |
| 6/30/2032 | 1 | (15,031,674) | (16,113,955) |
| 6/30/2033 | 0 | 0 | 0 |

TRANSITIONAL UAAL





| Valuation Date | Amortization Period | Balance of New Incremental UAAL 6/30/2014 | Expected UAAL Contribution |
|-------------------|------------------------|---|-------------------------------|
| 6/30/2014 | 20 | \$ (36,077,445) | \$ (3,538,916) |
| 6/30/2015 | 19 | (35,244,338) | (3,538,916) |
| 6/30/2016 | 18 | (34,348,747) | (3,538,916) |
| 6/30/2017 | 17 | (33,385,988) | (3,514,898) |
| 6/30/2018 | 16 | (32,341,652) | (3,491,974) |
| 6/30/2019 | 15 | (31,210,619) | (3,491,974) |
| 6/30/2020 | 14 | (29,997,020) | (3,491,974) |
| 6/30/2021 | 13 | (28,694,828) | (3,472,385) |
| 6/30/2022 | 12 | (27,288,471) | (3,472,385) |
| 6/30/2023 | 11 | (25,780,856) | (3,472,385) |
| 6/30/2024 | 10 | (24,164,693) | (3,472,385) |
| 6/30/2025 | 9 | (22,432,166) | (3,472,385) |
| 6/30/2026 | 8 | (20,574,897) | (3,472,385) |
| 6/30/2027 | 7 | (18,583,905) | (3,472,385) |
| 6/30/2028 | 6 | (16,449,561) | (3,472,385) |
| 6/30/2029 | 5 | (14,161,545) | (3,472,385) |
| 6/30/2030 | 4 | (11,708,791) | (3,472,385) |
| 6/30/2031 | 3 | (9,079,439) | (3,472,385) |
| 6/30/2032 | 2 | (6,260,774) | (3,472,385) |
| 6/30/2033 | 1 | (3,239,165) | (3,472,385) |
| 6/30/2034 | 0 | 0 | 0 |





| Valuation Date | Amortization Period | Balance of New Incremental UAAL 6/30/2015 | Expected UAAL Contribution |
|-------------------|------------------------|---|-------------------------------|
| 6/30/2015 | 20 | \$ (24,457,703) | \$ (2,399,110) |
| 6/30/2016 | 19 | (23,892,921) | (2,399,110) |
| 6/30/2017 | 18 | (23,285,780) | (2,382,161) |
| 6/30/2018 | 17 | (22,626,767) | (2,365,933) |
| 6/30/2019 | 16 | (21,912,588) | (2,365,933) |
| 6/30/2020 | 15 | (21,146,274) | (2,365,933) |
| 6/30/2021 | 14 | (20,324,019) | (2,351,900) |
| 6/30/2022 | 13 | (19,435,448) | (2,351,900) |
| 6/30/2023 | 12 | (18,482,901) | (2,351,900) |
| 6/30/2024 | 11 | (17,461,770) | (2,351,900) |
| 6/30/2025 | 10 | (16,367,118) | (2,351,900) |
| 6/30/2026 | 9 | (15,193,651) | (2,351,900) |
| 6/30/2027 | 8 | (13,935,694) | (2,351,900) |
| 6/30/2028 | 7 | (12,587,164) | (2,351,900) |
| 6/30/2029 | 6 | (11,141,541) | (2,351,900) |
| 6/30/2030 | 5 | (9,591,832) | (2,351,900) |
| 6/30/2031 | 4 | (7,930,544) | (2,351,900) |
| 6/30/2032 | 3 | (6,149,644) | (2,351,900) |
| 6/30/2033 | 2 | (4,240,519) | (2,351,900) |
| 6/30/2034 | 1 | (2,193,936) | (2,351,900) |
| 6/30/2035 | 0 | 0 | 0 |





| Valuation Date | Amortization Period | Balance of New Incremental UAAL 6/30/2016 | Expected UAAL Contribution | | |
|-------------------|------------------------|---|-------------------------------|--|--|
| 6/30/2016 | 20 | \$ (12,345,144) | \$ (1,210,962) | | |
| 6/30/2017 | 19 | (12,060,068) | (1,202,082) | | |
| 6/30/2018 | 18 | (11,750,431) | (1,193,556) | | |
| 6/30/2019 | 17 | (11,414,656) | (1,193,556) | | |
| 6/30/2020 | 16 | (11,054,370) | (1,193,556) | | |
| 6/30/2021 | 15 | (10,667,783) | (1,186,104) | | |
| 6/30/2022 | 14 | (10,249,759) | (1,186,104) | | |
| 6/30/2023 | 13 | (9,801,638) | (1,186,104) | | |
| 6/30/2024 | 12 | (9,321,251) | (1,186,104) | | |
| 6/30/2025 | 11 | (8,806,277) | (1,186,104) | | |
| 6/30/2026 | 10 | (8,254,225) | (1,186,104) | | |
| 6/30/2027 | 9 | (7,662,425) | (1,186,104) | | |
| 6/30/2028 | 8 | (7,028,015) | (1,186,104) | | |
| 6/30/2029 | 7 | (6,347,928) | (1,186,104) | | |
| 6/30/2030 | 6 | (5,618,874) | (1,186,104) | | |
| 6/30/2031 | 5 | (4,837,329) | (1,186,104) | | |
| 6/30/2032 | 4 | (3,999,513) | (1,186,104) | | |
| 6/30/2033 | 3 | (3,101,373) | (1,186,104) | | |
| 6/30/2034 | 2 | (2,138,568) | (1,186,104) | | |
| 6/30/2035 | 1 | (1,106,441) | (1,186,104) | | |
| 6/30/2036 | 0 | 0 | 0 | | |





| Valuation Date | Amortization Period | Balance of New Incremental UAAL 6/30/2017 | Expected UAAL Contribution | |
|-------------------|------------------------|---|-------------------------------|--|
| 6/30/2017 | 20 | \$ (32,887,559) | \$ (3,201,519) | |
| 6/30/2018 | 19 | (32,119,720) | (3,177,944) | |
| 6/30/2019 | 18 | (31,286,516) | (3,177,944) | |
| 6/30/2020 | 17 | (30,392,488) | (3,177,944) | |
| 6/30/2021 | 16 | (29,433,196) | (3,157,143) | |
| 6/30/2022 | 15 | (28,395,243) | (3,157,143) | |
| 6/30/2023 | 14 | (27,282,557) | (3,157,143) | |
| 6/30/2024 | 13 | (26,089,758) | (3,157,143) | |
| 6/30/2025 | 12 | (24,811,077) | (3,157,143) | |
| 6/30/2026 | 11 | (23,440,332) | (3,157,143) | |
| 6/30/2027 | 10 | (21,970,893) | (3,157,143) | |
| 6/30/2028 | 9 | (20,395,654) | (3,157,143) | |
| 6/30/2029 | 8 | (18,706,998) | (3,157,143) | |
| 6/30/2030 | 7 | (16,896,758) | (3,157,143) | |
| 6/30/2031 | 6 | (14,956,182) | (3,157,143) | |
| 6/30/2032 | 5 | (12,875,884) | (3,157,143) | |
| 6/30/2033 | 4 | (10,645,804) | (3,157,143) | |
| 6/30/2034 | 3 | (8,255,159) | (3,157,143) | |
| 6/30/2035 | 2 | (5,692,387) | (3,157,143) | |
| 6/30/2036 | 1 | (2,945,096) | (3,157,143) | |
| 6/30/2037 | 0 | 0 | 0 | |





| Valuation Date | Amortization Period | Balance of New Incremental UAAL 6/30/2018 | Expected UAAL Contribution | |
|-------------------|------------------------|---|-------------------------------|--|
| 6/30/2018 | 20 | \$ (30,408,066) | \$ (2,937,574) | |
| 6/30/2019 | 19 | (29,690,281) | (2,937,574) | |
| 6/30/2020 | 18 | (28,920,098) | (2,937,574) | |
| 6/30/2021 | 17 | (28,093,691) | (2,917,487) | |
| 6/30/2022 | 16 | (27,198,950) | (2,917,487) | |
| 6/30/2023 | 15 | (26,239,787) | (2,917,487) | |
| 6/30/2024 | 14 | (25,211,564) | (2,917,487) | |
| 6/30/2025 | 13 | (24,109,309) | (2,917,487) | |
| 6/30/2026 | 12 | (22,927,692) | (2,917,487) | |
| 6/30/2027 | 11 | (21,660,998) | (2,917,487) | |
| 6/30/2028 | 10 | (20,303,103) | (2,917,487) | |
| 6/30/2029 | 9 | (18,847,439) | (2,917,487) | |
| 6/30/2030 | 8 | (17,286,967) | (2,917,487) | |
| 6/30/2031 | 7 | (15,614,141) | (2,917,487) | |
| 6/30/2032 | 6 | (13,820,872) | (2,917,487) | |
| 6/30/2033 | 5 | (11,898,488) | (2,917,487) | |
| 6/30/2034 | 4 | (9,837,691) | (2,917,487) | |
| 6/30/2035 | 3 | (7,628,518) | (2,917,487) | |
| 6/30/2036 | 2 | (5,260,284) | (2,917,487) | |
| 6/30/2037 | 1 | (2,721,537) | (2,917,487) | |
| 6/30/2038 | 0 | 0 | 0 | |





| Valuation Date | Amortization Period | Balance of New Incremental UAAL 6/30/2019 | Expected UAAL Contribution | |
|-------------------|------------------------|---|-------------------------------|--|
| 6/30/2019 | 20 | \$ (27,121,140) | \$ (2,620,040) | |
| 6/30/2020 | 19 | (26,480,943) | (2,620,040) | |
| 6/30/2021 | 18 | (25,794,012) | (2,601,384) | |
| 6/30/2022 | 17 | (25,049,797) | (2,601,384) | |
| 6/30/2023 | 16 | (24,251,999) | (2,601,384) | |
| 6/30/2024 | 15 | (23,396,760) | (2,601,384) | |
| 6/30/2025 | 14 | (22,479,943) | (2,601,384) | |
| 6/30/2026 | 13 | (21,497,115) | (2,601,384) | |
| 6/30/2027 | 12 | (20,443,524) | (2,601,384) | |
| 6/30/2028 | 11 | (19,314,074) | (2,601,384) | |
| 6/30/2029 | 10 | (18,103,303) | (2,601,384) | |
| 6/30/2030 | 9 | (16,805,358) | (2,601,384) | |
| 6/30/2031 | 8 | (15,413,960) | (2,601,384) | |
| 6/30/2032 | 7 | (13,922,381) | (2,601,384) | |
| 6/30/2033 | 6 | (12,323,409) | (2,601,384) | |
| 6/30/2034 | 5 | (10,609,311) | (2,601,384) | |
| 6/30/2035 | 4 | (8,771,798) | (2,601,384) | |
| 6/30/2036 | 3 | (6,801,984) | (2,601,384) | |
| 6/30/2037 | 2 | (4,690,343) | (2,601,384) | |
| 6/30/2038 | 1 | (2,426,664) | (2,601,384) | |
| 6/30/2039 | 0 | 0 | 0 | |





| Valuation Date | Amortization Period | Balance of New Incremental UAAL 6/30/2020 | Expected UAAL Contribution | |
|-------------------|------------------------|---|-------------------------------|--|
| 6/30/2020 | 20 | \$ (29,318,311) | \$ (2,832,298) | |
| 6/30/2021 | 19 | (28,626,250) | (2,811,355) | |
| 6/30/2022 | 18 | (27,875,985) | (2,811,355) | |
| 6/30/2023 | 17 | (27,071,700) | (2,811,355) | |
| 6/30/2024 | 16 | (26,209,508) | (2,811,355) | |
| 6/30/2025 | 15 | (25,285,237) | (2,811,355) | |
| 6/30/2026 | 14 | (24,294,419) | (2,811,355) | |
| 6/30/2027 | 13 | (23,232,262) | (2,811,355) | |
| 6/30/2028 | 12 | (22,093,630) | (2,811,355) | |
| 6/30/2029 | 11 | (20,873,016) | (2,811,355) | |
| 6/30/2030 | 10 | (19,564,518) | (2,811,355) | |
| 6/30/2031 | 9 | (18,161,808) | (2,811,355) | |
| 6/30/2032 | 8 | (16,658,103) | (2,811,355) | |
| 6/30/2033 | 7 | (15,046,131) | (2,811,355) | |
| 6/30/2034 | 6 | (13,318,097) | (2,811,355) | |
| 6/30/2035 | 5 | (11,465,645) | (2,811,355) | |
| 6/30/2036 | 4 | (9,479,816) | (2,811,355) | |
| 6/30/2037 | 3 | (7,351,008) | (2,811,355) | |
| 6/30/2038 | 2 | (5,068,925) | (2,811,355) | |
| 6/30/2039 | 1 | (2,622,533) | (2,811,355) | |
| 6/30/2040 | 0 | 0 | 0 | |





| Valuation Date | Amortization Period | Balance of New Incremental UAAL 6/30/2021 | Expected UAAL Contribution | | |
|-------------------|------------------------|---|-------------------------------|--|--|
| 6/30/2021 | 20 | \$ (101,998,660) | \$ (9,778,123) | | |
| 6/30/2022 | 19 | (99,564,440) | (9,778,123) | | |
| 6/30/2023 | 18 | (96,954,956) | (9,778,123) | | |
| 6/30/2024 | 17 | (94,157,590) | (9,778,123) | | |
| 6/30/2025 | 16 | (91,158,813) | (9,778,123) | | |
| 6/30/2026 | 15 | (87,944,124) | (9,778,123) | | |
| 6/30/2027 | 14 | (84,497,978) | (9,778,123) | | |
| 6/30/2028 | 13 | (80,803,708) | (9,778,123) | | |
| 6/30/2029 | 12 | (76,843,452) | (9,778,123) | | |
| 6/30/2030 | 11 | (72,598,057) | (9,778,123) | | |
| 6/30/2031 | 10 | (68,046,994) | (9,778,123) | | |
| 6/30/2032 | 9 | (63,168,254) | (9,778,123) | | |
| 6/30/2033 | 8 | (57,938,245) | (9,778,123) | | |
| 6/30/2034 | 7 | (52,331,675) | (9,778,123) | | |
| 6/30/2035 | 6 | (46,321,432) | (9,778,123) | | |
| 6/30/2036 | 5 | (39,878,452) | (9,778,123) | | |
| 6/30/2037 | 4 | (32,971,577) | (9,778,123) | | |
| 6/30/2038 | 3 | (25,567,407) | (9,778,123) | | |
| 6/30/2039 | 2 | (17,630,137) | (9,778,123) | | |
| 6/30/2040 | 1 | (9,121,384) | (9,778,123) | | |
| 6/30/2041 | 0 | 0 | 0 | | |





Schedule G – Summary of Main Plan Provisions

AS INTERPRETED FOR VALUATION PURPOSES

| Eligibility for Coverage | Establishment of membership in the Employees' Retirement System of Georgia (ERS), the Georgia Legislative Retirement System (LRS) or the Judicial Retirement System (JRS). ERS new entrants on and after January 1, 2009 and LRS and JRS new entrants on and after July 1, 2009 are excluded from membership. |
|--------------------------|--|
| <u>Premiums</u> | <u>ERS Old Plan Members</u> (Hired before July 1, 1982) Member pays 0.05% of monthly salary. State picks up 0.03% of the member premium. |
| | <u>ERS New Plan Members</u> (Hired on or after July 1, 1982 and before January 1, 2009), <u>LRS Members and JRS Members</u> Member pays 0.02% of monthly salary. |
| | All ERS and LRS members pay the above premiums. If the member is not covered under the Group Term Life Insurance (GTLI) Plan, employee contributions with interest are refunded upon termination of State employment. Otherwise, no premiums are refundable. Participation is voluntary for JRS Members. |
| <u>Coverage</u> | The amount of insurance is 18 times current monthly earnable compensation (frozen at age 60). For a member with no creditable service prior to April 1, 1964, the amount decreases from age 60 by ½ of 1% per month until age 65, at which point the member will be covered for 70% of the age 60 coverage. |





Schedule H – Annual Comprehensive Financial Report Schedule

| | | GA SEAD | Pre-retirement: | Solvency 1 | Fest | | |
|--------------------------------------|--|-------------------------------------|---|---------------------|-------------|----------------------------------|--------|
| | Actua | rial Accrued Lia | bility for: | | | | |
| Actuarial Valuation as of 6/30 | Active Member Contributions (1) | Retirants & Beneficiaries (2) | Active Members (Employer Funded Portion) (3) | Valuation Assets | | of Aggregat es Covered (2) | |
| 2021 | \$0 | \$0 | \$ 8,056 | \$408,323 | N/A | (_/ N/A | 100.0% |
| 2020 | 0 | 0 | 8,913 | 319,340 | N/A | N/A | 100.0% |
| 2019 | 0 | 0 | 14,083 | 305,877 | N/A | N/A | 100.0% |
| 2018 | 0 | 0 | 15,173 | 289,207 | N/A | N/A | 100.0% |
| 2017 | 0 | 0 | 15,677 | 267,286 | N/A | N/A | 100.0% |
| 2016 | 0 | 0 | 15,610 | 240,985 | N/A | N/A | 100.0% |
| 2015 | 0 | 0 | 21,723 | 240,677 | N/A | N/A | 100.0% |
| 2014 | 0 | 0 | 35,877 | 235,358 | N/A | N/A | 100.0% |
| 2013 | 0 | 0 | 37,513 | 204,779 | N/A | N/A | 100.0% |
| 2012 | 0 | 0 | 39,317 | 183,390 | N/A | N/A | 100.0% |
| All dollar | amounts are in | thousands. | | | | | |

