

City of St. Albans West Virginia Policemen's Pension Plan

Actuarial Valuation as of July 1, 2022 to Determine the City's Contribution for the Fiscal Year Ending June 30, 2024



Submitted by:

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September 29, 2023

Ms. Molly Quentrill City Treasurer 1499 MacCorkle Ave St. Albans, WV 25177 Captain Philip Bass
Pension Board Secretary
City of St. Albans
Policemen's Pension and Relief Fund

Re: City of St. Albans Policemen's Pension and Relief Fund

Actuarial Valuation Report for the Year Beginning July 1, 2022

Dear Ms. Quentrill and Captain Bass:

The following sets forth the actuarial valuation of the City of St. Albans Policemen's Pension and Relief Fund as of July 1, 2022. Sections I and II of the report provide a summary of results and the actuarial certification, respectively. Sections III and IV contain the development of the City's contribution for the 2024 fiscal year. Section V contains asset information. Sections VI and VII provide experience gain/loss and risk measure information, respectively. Sections VIII and IX provide projections and an analysis of changing funding policies. Sections X through XII provide a summary of the census data, plan provisions, assumptions and actuarial methods. Section XIII provides a glossary of many of the terms used in this report.

The purpose of this report is to provide information on:

- The sponsor's funding requirements for the fiscal year ending June 30, 2024, based on the selected funding policy, i.e., the **Alternative** funding policy as defined in West Virginia Code §8-22-20(c)(1)
- The Fund's eligibility to receive an allocation of the premium tax for the fiscal year ending June 30, 2024
- The Fund's requirement to provide supplemental benefits for the plan year beginning July 1,2024

If the City is considering the issuance of pension obligation bonds, the City must contact Bolton and the Municipal Pensions Oversight Board for the determination of the adjustments to information in the valuation report required under WV Code.

This report may not be used for any other purpose; Bolton is not responsible for the consequences of any unauthorized use. We are available to answer any questions on the material in this report or to provide explanations or further details as appropriate.

Respectfully submitted,

James E. Ritchie, ASA, EA, FCA, MAAA

Jordan McClane, FSA, EA, FCA, MAAA



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Section I. Executive Summary

Background

Bolton has prepared the following report that sets forth the actuarial valuation of the City of St. Albans Policemen's Pension and Relief Fund (the Plan) as of July 1, 2022. Please note that some columns and rows in the tables on the following pages may not add due to rounding.

Funding Policy

The Plan is valued using the Alternative funding policy as described in WV Code §8-22-20. The City of St. Albans (the City) switched from the Standard funding policy to the Alternative funding policy effective July 1, 1991.

Summary of Results

The following table presents a two-year summary of the Plan's estimated pension contributions.

Estimated Employer Contribution Requirements	FYE 2023	FYE 2024
Prior Year Alternative Contribution	\$ 397,428	\$ 425,248
2. 7% Increase in Alternative Contribution	\$ 27,820	\$ 29,767
3. Current Year Preliminary Alternative Contribution	\$ 425,248	\$ 455,015
 Additional Contribution to Satisfy 15-Year Solvency Test on an Open Group Basis 	\$ 0	\$ 0
5. Employer Contribution Requirement to Receive 100% of Premium Tax (3. + 4.)	\$ 425,248	\$ 455,015
Additional Contribution to Satisfy 15-Year Solvency Test on a Closed Group Basis	\$ 0	\$ 0
7. Employer Contribution Requirement to Receive 100% Premium Tax and Grant Supplemental Benefits (COLA) (5. + 6.)	\$ 425,248	\$ 455,015

Amortization Period to Eliminate Unfunded Liability	FYE 2023	FYE 2024
1. Net City Contribution	\$ 425,248	\$ 455,015
2. Estimated Premium Tax Allocation	\$ 231,263	\$ 274,216
3. Total City Contribution Plus Premium Tax (1. + 2.)	\$ 656,511	\$ 729,231
4. Net Employer Normal Cost with Interest	\$ 309,755	\$ 323,439
5. Payment Towards Unfunded Liability (3. – 4.)	\$ 346,756	\$ 405,792
6. Estimated Number of Years this 'Payment Towards Unfunded Liability' Would Take to Eliminate the Unfunded Liability	Never	Never



The following table presents a three-year historical summary of Plan assets and liabilities.

	July 1, 2020	July 1, 2021	July 1, 2022
Actuarial Accrued Liability (AAL)	\$ 17,605,722	\$ 16,832,263	\$ 17,167,484
Actuarial Value of Assets (AVA)	\$ 7,666,745	\$ 8,229,519	\$ 8,446,223
Unfunded Actuarial Accrued Liability	\$ 9,938,977	\$ 8,602,744	\$ 8,721,261
Funding Percentage	43.6%	48.9%	49.2%

The contributions shown above are assumed to be paid in equal monthly installments throughout the fiscal year. Details of the determination of the City's contribution for FYE 2024 are shown in Section IV of this report.

Please note, the Alternative and Conservation policies do not meet the requirements for a reasonable funding method under standard actuarial principles. Current contributions developed under the Alternative and Conservation funding policies may be significantly smaller than contributions developed under a generally accepted actuarial funding policy and plans using either of these two funding policies may experience significant increases in the required contribution over time. We recommend that municipalities using the Alternative policy consider switching to a policy that is more in line with standard actuarial principles for funding. In order to understand the ineffectiveness of these funding policies, we have shown the number of years it would take to completely payoff the unfunded liability assuming the amount shown for the plan year is paid for all future years until the unfunded is eliminated. If "Never" is shown, the year's payment toward the unfunded liability does not cover the interest on the unfunded liability and the unfunded liability will be expected to increase in future years.

Risk Measures

Generally, the primary risk that a plan sponsor incurs from a defined benefit plan is the risk of substantial increases in annual contributions. For plans that develop contributions using a generally accepted actuarial funding policy, these increases occur most frequently due to variation in the investment returns. The following table shows four commonly used measures of the relative riskiness of a pension plan, relative to the plan sponsor and the employee groups covered by the plan. More detail is provided later in this report.

Risk Measure	July 1, 2020	July 1, 2021	July 1, 2022
Inactive AAL Percent of Total AAL	74.0%	72.0%	77.8%
Assets (MVA) to Payroll	6.5	7.4	6.1
Liabilities to Payroll	15.3	13.7	13.6
Benefit Payments to Contributions	1.0	1.1	1.1

¹ This does not factor in any future increases in the contributions since scheduled increases might require a growing burden to the City.



Experience Analysis

The following factors affected the City's funded status:

- The Plan uses the Alternative funding policy. City contributions between FY 2023 and FY 2024 are expected to increase by 7.0% from \$425,248 to \$455,015.
- No additional contributions are required to stay "solvent" for the next 15 years. Making the \$455,015 contribution will require the plan to pay COLAs and receive premium tax payments.
- This valuation uses the same 5.50% discount rate as the prior valuation.
- Contributions under this policy are not based on actuarial liabilities and plan assets. However, liabilities increased by 2.0% and assets increased by 2.6%.
- The Plan's funded ratio increased from 48.9% to 49.2% and the Plan is expected to be 100% funded in 2045.
- The return on the market value of assets for FY 2022 was (15.0%), while the return on the actuarial value of assets for FY 2022 was 3.9%.

Changes in Methods, Assumptions, and Plan Amendments

There were no changes in methods or assumptions reflected in this valuation.

There were no changes to the Plan provisions reflected in this valuation.

Sources of Information

The July 1, 2022 participant data and market value of assets were provided by or at the direction of the City of St. Albans. While we have reviewed this data for consistency and completeness, we have not audited this data.

Supplemental Benefit Eligibility

West Virginia Code §8-22-26a requires that all retirees, surviving beneficiaries, disability pensioners or future retirees receive a Supplemental Pension Benefit (i.e. cost-of-living adjustments, or COLAs) payable on the first day of July, based on a percentage increase equal to any increase in the consumer price index as calculated by the United States Department of Labor, Bureau of Statistics for the preceding year. The COLA shall not exceed 4% per year and is not payable to a retiree until the first day of July after the second anniversary of the retiree's date of retirement. Additionally, the COLA shall be calculated on only the first \$15,000 of the annual benefit paid and on the COLAs that have been accumulated by the retiree since benefit commencement. If, at any time after the COLA becomes applicable, the total accumulated percentage increase in benefit on the allowable amount becomes less than 75% of the total accumulated percentage increase in the consumer price index over that same period of time, the 4% limitation shall be inapplicable until such time as the accumulated COLAs equal 75% of the accumulated increase in the consumer price index. The consumer price index used to determine the COLA is the CPI-U US City Average all items with a base of 1982-1984 equal to 100. The increase is measured as the increase in the annual average from the second prior calendar year to the annual average from the prior calendar year.

The COLA is only payable to the extent that the actuary certifies to the Board of Trustees of the fund the amount of increase in the COLA, if any, which may be paid, and which will preserve the minimum standards for actuarial soundness of the fund as set forth in West Virginia Code §8-22-20. The related solvency test is discussed below.



Premium Tax

West Virginia Code §33-3-14d established a 1% tax on premiums for fire insurance and casualty insurance policies. The proceeds from this tax are used to fund the West Virginia Teachers Retirement System, the Fire Protection Fund for volunteer and part-volunteer fire companies and the Municipal Pensions Security Fund, which is managed by the Municipal Pensions Oversight Board (MPOB). The MPOB allocates funds from the Municipal Pensions Security Fund to each eligible municipality's police and fire fund² that is less than 100% funded on an actuarial basis. The funds from the Base Allocation are allocated proportionately to each fire and police fund based on the average monthly number of police officers and firefighters who worked at least 100 hours per month (regardless of whether the police and fire employees participate in the municipality's pension plan or the West Virginia state Municipal Police and Firefighters Retirement System (MPFRS)). The funds from the Excess Allocation are allocated proportionately to each fire and police fund based on the average monthly number of police officers and firefighters who worked at least 100 hours per month and the average monthly number of retired police officers and firefighters (regardless of whether the police and fire employees and retirees participate in the municipality's pension plan or the West Virginia MPFRS).

West Virginia Code §8-22-19 requires a plan sponsor to deposit into the pension fund the required contributions in accordance with Code §8-22-20 at least on a monthly basis at a rate of one-twelfth of the annual requirement in order to receive the premium tax allocation described above. A municipality may pre-pay this contribution. If the allocable portion of the Municipal Pensions Security Fund is not paid to the pension and relief fund within eighteen months, the portion is forfeited by the pension and relief fund and is allocable to other eligible municipal policemen's and firemen's pension and relief funds in accordance with West Virginia Code §33-3-14d.

Solvency Tests

There are two solvency tests. The first solvency test is used to determine whether the State premium tax may be allocated to the pension plan for the fiscal year. West Virginia Code §8-22-20 has been historically interpreted to require plans that use the **Alternative** funding policy to be projected to be solvent in the next 15 years in order to receive the State premium tax allocation. Plans that use the Standard, Optional, Optional II, or Conservation policy are projected to be solvent in future years. If a plan is not projected to be solvent in the next 15 years, the municipality or employees must make additional contributions in the current fiscal year in order to receive the State premium tax allocation.

The second test is used to determine whether the COLA is payable under West Virginia Code §8-22-26a, which requires the actuary to certify that the minimum funding for actuarial soundness will be preserved after the COLA is granted for the year. The test used to determine if the minimum funding for actuarial soundness will be preserved is a 15-year projection on a closed group basis. For the July 1, 2022 valuation, the 15-year period would end on June 30, 2037. If the assets are greater than \$1 for the first 15 years of the projection, the COLA must be granted. Please note that the Alternative policy is not consistent with generally accepted actuarial principles for funding and continued use of this policy may reduce future solvency levels, even if the current projections do not forecast insolvency.

² If pension obligation bonds have been issued to fund a plan, the premium tax dollars are annually allocated to the bond trustee once the plan sponsor deposits into the pension fund the annual required contributions in accordance with Code §8-22-20. The premium tax allocation to the bond trustee ceases once the bonds have been paid in full.



Actuarial Projections

Section VIII of this report provides long-range projections of assets, liabilities, funded status, and contributions for the pension fund assuming the plan continues to use the **Alternative** funding policy. Additionally, Section IX provides projections that are based on the municipality switching to the Optional funding policy or Optional II funding policy in the current fiscal year or in the year that the Optional funding policy or Optional II funding policy contributions are projected to be less than the contribution under the Alternative policy. The projections are shown to help the municipality make decisions regarding the election of future funding policies and to understand the future funded status and future contribution requirements based on an expected set of assumptions.

Plans that use the Alternative funding policy may switch to either the Optional or Optional II funding policy. For these plans, we show projections for the following scenarios:

- Plan continues to be funded under the Alternative policy on an open group basis (these
 projections are also used to determine if the plan is eligible for the premium tax
 allocation)
- Plan continues to be funded under the Alternative policy on a closed group basis (these projections are used to determine if the COLA is payable)
- Plan switches to the Optional funding policy in the current contribution year
- Plan switches to the Optional II funding policy in the current contribution year
- Plan switches to the Optional funding policy in the year that the Optional funding policy contribution is projected to be less than the Alternative funding policy contribution
- Plan switches to the Optional II funding policy in the year that the Optional II funding policy contribution is projected to be less than the Alternative funding policy contribution

Impact of COVID-19

Because the long-term net impact of COVID-19 on mortality, salary increases, and changes in turnover and retirement behavior is difficult to estimate at this time, we have not made any adjustments to the assumptions for the potential impact of the COVID-19 pandemic.



Section II. Actuarial Certification

This actuarial valuation sets forth our calculation of an estimate of the liabilities of the City of St. Albans Policemen's Pension and Relief Fund, together with a comparison of these liabilities with the value of the Plan assets, as submitted by the City of St. Albans (the City). This liability calculation and comparison with assets is applicable for the valuation date only. The future is uncertain, and the Plan may become better funded or more poorly funded in the future. This valuation does not provide any guarantee that the Plan will be able to provide the promised benefits in the future.

The information in this report was prepared for the internal use of the MPOB, the West Virginia Legislature's Joint Committee on Pensions and Retirement, the City and their auditors in connection with their review of the City's financial statements and our actuarial valuation of the Plan. The purpose of this report is to provide information on the following:

- The sponsor's funding requirements for the fiscal year ending June 30, 2024, based on the selected funding policy, i.e., the **Alternative** funding policy as defined in West Virginia Code §8-22-20(c)(1)
- The Fund's eligibility to receive an allocation of the premium tax for the fiscal year ending June 30, 2024
- The Fund's requirement to provide supplemental benefits for the plan year beginning July 1, 2024

This report is neither intended nor necessarily suitable for other purposes, including any analysis surrounding the consideration of pension obligation bonds (POBs). WV Code §8-33-4a(d) requires the POB analysis to be based on the most recent actuarial valuation report with appropriate adjustments for timing, experience and other factors. Cities considering the issuance of POBs must contact Bolton and the MPOB to determine the appropriate adjustments that must be made for purposes of meeting the requirement of the Code. Bolton is not responsible for the consequences of any other use or the reliance upon this report by any other party.

This report is based on plan provisions, census data, and asset data submitted by the City. We have relied on this information for purposes of preparing this report. We have not audited the census or asset data provided; however, based on our review, the data appears to be reasonable and consistent with previously provided information and appropriate for the purpose of producing this report. Unless otherwise noted in our report, we believe the information provided is sufficiently complete and reliable for purposes of the results presented in this report. The accuracy of the results presented in this report is dependent upon the accuracy and completeness of the underlying information. The City is solely responsible for the validity and completeness of this information.

The City is responsible for selecting the Plan's funding policy. The MPOB selects the actuarial valuation methods, asset valuation methods, and assumptions based on the advice of the Plan's actuary. The policies, methods and assumptions used in this valuation are those that have been so prescribed by the MPOB, in consultation with Bolton, and are described in this report. The MPOB is solely responsible for communicating to Bolton any changes required thereto.

The City of St. Albans Policemen's Pension Fund Board of Trustees is solely responsible for selecting the Plan's investment manager and assisting the investment manager in the selection of



the Plan's investment policies, asset allocations and individual investments. Bolton's actuaries have not provided any investment advice to the City.

This is a deterministic valuation in that it is based on a single set of assumptions. This set of assumptions is one possible basis for our calculations. We may consider that some factors are not material to the valuation of the Plan and may not provide a specific assumption for those factors. The Plan may have used other assumptions in the past. We will likely consider changes in assumptions at a future date in conjunction with the MPOB.

Different assumptions or scenarios within the range of possibilities may also be reasonable and results based on those assumptions would be different. As a result of the uncertainty inherent in a forward-looking projection over a very long period of time, no one projection is uniquely "correct" and many alternative projections of the future could also be regarded as reasonable. Two different actuaries could, quite reasonably, arrive at different results based on the same data and different views of the future.

The City could reasonably ask how the valuation would change if we used a different assumption set or if plan experience exhibited variations from our assumptions. This report does not contain such an analysis. That type of analysis would be a separate assignment.

In addition, decisions regarding benefit improvements, benefit changes, the Plan's investment policy, pension obligation bonds, and similar issues should not be based on this valuation. These issues are complex and other factors should be considered when making such decisions. Other factors might include the anticipated vitality of the local economy and future growth expectations, as well as other economic and financial factors.

The cost of this Plan is determined by the benefits promised by the Plan, the Plan's participant population, the investment experience of the Plan and many other factors. An actuarial valuation is a budgeting tool for the City. It does not affect the cost of the Plan. Different funding policies and methods provide for different timing of contributions to the Plan. As the experience of the Plan evolves, it is normal for the level of contributions to the Plan to change. If a contribution is not made for a particular year, either by deliberate choice or because of an error in a calculation, that contribution can be made in later years. We are not responsible for the consequences of any decision by the City to make contributions at a future time rather than an earlier time. The City is responsible for funding the cost of the Plan.

The report is conditioned on the assumption of an ongoing plan and is not meant to present the actuarial position of the Plan in the case of plan termination. Future actuarial measurements may differ significantly from the current measurements 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.

The valuation was completed using both proprietary and third-party models (including software and tools). We have tested these models to ensure they are used for their intended purposes, within their known limitations, and without any known material inconsistencies unless otherwise stated.

The calculations in this report have been computed in accordance with our understanding of generally accepted actuarial principles and practices and fairly reflect the actuarial position of the



Plan. The various actuarial assumptions and methods which have been used are, in our opinion, appropriate for the purposes of this report.

We make every effort to ensure that our calculations are accurately performed. We reserve the right to correct any potential errors by amending the results of this report or by including the corrections in a future valuation report.

Bolton does not practice law and, therefore, cannot and does not provide legal advice. Any statutory interpretation on which this report is based reflects Bolton's understanding as an actuarial firm. Bolton recommends that recipients of this report consult with legal counsel when making any decisions regarding compliance with WV Code, ERISA, the Internal Revenue Code, or any other statute or regulation.

The MPOB, Pension Board, or the City should notify Bolton promptly after receipt of this report if the City disagrees with anything contained in the report or is aware of any information that would affect the results of the report that has not been communicated to Bolton or incorporated herein. The report will be deemed final and acceptable to the City unless the City promptly provides such notice to Bolton.

The undersigned credentialed actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. We are not aware of any direct or material indirect financial interest or relationship, including investments or other services, which could create a conflict of interest that would impair the objectivity of our work.

We are available to answer any questions on the material in this report to provide explanations or further details as appropriate.

Jim Ritchie, ASA, EA, FCA, MAAA

Jordan McClane, FSA, EA, FCA, MAAA



Section III. Normal Cost and Liabilities

Net Employer Normal Cost

The breakdown of the Net Employer Normal Cost is illustrated below.

Net Employer Normal Cost (BOY)		7/1/2021	7/1/2022
1. Normal Cost	\$	403,021	\$ 413,246
2.a. Administrative Expenses FYE (MOY) \$	1,378	\$ 1,187
2.b. Administrative Expenses (BOY	\$	1,342	\$ 1,156
3. Gross Normal Cost (1. + 2.b.)	\$	404,363	\$ 414,402
4. Expected Employee Contribution	ons (BOY) \$	113,460	\$ 117,162
5. Net Employer Normal Cost (3.	- 4.) \$	290,903	\$ 297,240
(% of Compensation)		24.38%	24.11%

Projected Net Employer Normal Cost

The breakdown of the Projected Net Employer Normal Cost as of the first anniversary of the valuation date (i.e. the first day of the contribution year) is illustrated below.

Proje	ected Net Employer Normal Cost (BOY)		
Valu	ation Date	7/1/2021	7/1/2022
Proje	ection Date	7/1/2022	7/1/2023
1. I	Projected Normal Cost	\$ 417,194	\$ 437,327
2.a. l	Projected Administrative Expenses (MOY)	\$ 1,412	\$ 1,217
2.b. l	Projected Administrative Expenses (BOY)	\$ 1,375	\$ 1,185
3. I	Projected Gross Normal Cost (1. + 2.b.)	\$ 418,569	\$ 438,512
4. I	Projected Employee Contributions (BOY)	\$ 116,996	\$ 123,617
5. I	Projected Net Employer Normal Cost (3. – 4.)	\$ 301,573	\$ 314,895
((% of Compensation)	24.50%	24.21%



Unfunded Actuarial Accrued Liability

Below is a summary of the key valuation results.

		7/1/2021		7/1/2022
Actuarial Accrued Liability	Count		Count	
a. Active	23	\$ 4,718,459	24	\$ 3,806,780
b. Retirees	18	10,444,059	20	11,954,697
c. Survivors	5	1,058,064	3	788,447
d. Disableds	1	544,748	1	550,445
e. Deferred Vesteds	0	0	0	0
f. Former Members Due Refunds	9	66,933	10	67,115
g. Total	56	\$ 16,832,263	58	\$ 17,167,484
Present Value of Future				
Normal Costs		\$ 3,876,955		\$ 4,237,400
Present Value of Benefits				
(1.g. + 2.)		\$ 20,709,218		\$ 21,404,884
Actuarial Value of Assets		\$ 8,229,519		\$ 8,446,223
5. Unfunded Actuarial Accrued				
Liability (1.g. – 4.)		\$ 8,602,744		\$ 8,721,261
6. Funded Ratio (4. / 1.g.)		48.89%		49.20%

Projected Unfunded Actuarial Accrued Liability

The development of the Projected Unfunded Actuarial Accrued Liability as of the first anniversary of the valuation date (i.e. the first day of the contribution year) is illustrated below.

Projecte	d Unfunded Actuarial Accrued Lia	bility	7/1/2021	7/1/2022
	nded Actuarial Accrued Liability Aluation Date	\$	8,602,744	\$ 8,721,261
	mployer Normal Cost, Excluding nses (BOY)	\$	289,561	\$ 296,084
3. Expe	cted Expenses (MOY)	\$	1,378	\$ 1,187
•	cted Employer Contribution Fiscal Beginning on the Valuation Date	\$	397,428	\$ 425,248
•	cted Premium Tax Allocation Fiscal Beginning on the Valuation Date	\$	250,358	\$ 231,263
•	cted Unfunded Actuarial Accrued ity on Valuation Date + 1 Year	\$	8,717,435	\$ 8,840,195



Section IV. Determination of City Contributions

Development of Estimated Minimum Employer Contribution for Funding Purposes

The development of the Estimated Minimum Employer Contribution for funding purposes is illustrated below.

Estimated Employer Contribution Requirements		FYE 2023		FYE 2024
Prior Year Alternative Contribution	\$	397,428	\$	425,248
2. 7% Increase in Alternative Contribution	\$	27,820	\$	29,767
3. Current Year Preliminary Alternative Contribution	\$	425,248	\$	455,015
 Additional Contribution to Satisfy 15-Year Solvency Test on an Open Group Basis 	\$	0	\$	0
5. Employer Contribution Requirement to Receive 100% of Premium Tax (3. + 4.)	\$	425,248	\$	455,015
Additional Contribution to Satisfy 15-Year Solvency Test on a Closed Group Basis	\$	0	\$	0
7. Employer Contribution Requirement to Receive 100% Premium Tax and Grant Supplemental Benefits	ď	40E 040	ď	455.045
(COLA) (5. + 6.)	Ф	425,248	Ф	455,015



Development of Actuarially Determined Contribution for GASB Purposes
The development of the Actuarially Determined Contribution for GASB purposes is illustrated below.

Actuarially Determined Contribution for GASB	FYE 2023	FYE 2024
 Projected Gross Normal Cost, Including Administrative Expenses (BOY) 	\$ 418,569	\$ 438,512
2. Projected Employee Contributions (BOY)	\$ 116,996	\$ 123,617
 Projected Net Employer Normal Cost (BOY) (1. – 2.) 	\$ 301,573	\$ 314,895
4. Interest on Normal Cost	\$ 8,182	\$ 8,544
 Projected Total Employer Normal Cost with Interest (3. + 4.) 	\$ 309,755	\$ 323,439
6. Amortization of Projected Unfunded Liability	\$ 557,172	\$ 607,997
7. Interest on Projected Unfunded Liability Payment	\$ 15,117	\$ 16,496
8. Unfunded Liability Payment with Interest (6. + 7.)	\$ 572,289	\$ 624,493
9. Estimated Premium Tax Allocation	\$ 231,263	\$ 274,216
10. Unfunded Liability Payment Net of Premium Tax Allocation (8. – 9., not less than 0)	\$ 341,026	\$ 350,277
11. Net Employer Contribution (5. + 10.)	\$ 650,781	\$ 673,716
12. Actuarially Determined Contribution for GASB Purposes (5. + 8., not less than 0)	\$ 882,044	\$ 947,932



Schedule of Amortization Bases for GASB Purposes
Below is a schedule of the amortization bases as of July 1, 2023 used to develop the Actuarially Determined Contribution for GASB purposes.

Description	Date Established	Remaining Years	Outstanding Amount	Payment / (Credit)
Initial Unfunded	7/1/2023	26.5	\$ 8,840,195	\$ 607,997
Total			\$ 8,840,195	\$ 607,997



Section V. Assets

Asset Allocation

The table below shows the amount of funds invested in each account as of June 30, 2021 and June 30, 2022.

Assets Held by Category		June 30, 2021		June 30, 2022
Cash and Deposits	\$	377,960	\$	351,886
·				·
Receivables				
Contributions	\$	0	\$	0
Investment Income		0		0
Total Receivables	\$	0	\$	0
Investment	•			200 = 40
Government Securities	\$	833,541	\$	962,718
Fixed Income		1,439,199		1,236,750
Equities		5,447,745		4,214,153
Alternative Investments		1,025,571		896,446
Other		0		0
Total Investments	\$	8,746,056	\$	7,310,067
Total Assets	\$	9,124,016	\$	7,661,953
1014173013	Ψ	3,124,010	Ψ	7,001,300
Payables				
Investment Expense	\$	0	\$	0
Benefits and Withdrawals		0		0
Administrative Expense		0		0
Total Payables	\$	0	\$	0
Net Position	\$	9,124,016	\$	7,661,953



Reconciliation of Assets

Below is a reconciliation of assets (unaudited) from July 1, 2020 through June 30, 2022.

Plan Year Ending		June 30, 2021		June 30, 2022
Beginning of Year Market Value of Assets	\$	7,517,567	\$	9,124,016
Adjustments to Market Value of Assets	·	0	·	0
Beginning of Year Market Value of Assets	\$	7,517,567	\$	9,124,016
2. Additions				
a. Contributions				
(i) Local Government	\$	396,428	\$	397,428
(ii) State Government		258,607		250,358
(iii) Employee	_	117,900		122,343
(iv) Total		772,935		770,129
b. Receivable Contributions				
(i) Local Government		0		0
(ii) State Government		0		0
(iii) Employee Contributions	_	0		0
(iv) Total		0		0
c. Earnings on Investments				
(i) Net Appreciation/(Depreciation)		834,950		(1,608,688)
(ii) Net Realized Gain (Loss) on				
Sale/Exchange		702,737		65,605
(iii) Interest and Dividends		225,436		250,204
(iv) Other Income		0		(70,000)
(v) Investment Expense		(64,261)		(70,869)
(vi) Receivable Investment Income		0		0
(vii) Payable Investment Expenses	_	1,698,862		(1,363,748)
(viii) Net Investment Income d. Other Revenue		1,090,002		(1,303,740)
			^	
e. Total Additions	\$	2,471,797	\$	(593,619)
3. Disbursements	Φ.	700.000	Φ	040.007
a. Benefit Payments	\$	796,806	\$	818,297
b. Withdrawals		67,227		49,147
c. Administrative Expenses (i) Municipal Fees		0		0
(ii) Other Expenses		1,315		1,000
(iii) Total Administrative Expenses	_	1,315		1,000
d. Payable Benefits and Withdrawals		0		0
e. Payable Administrative Expenses		0		0
f. Total Disbursements	\$	865,348	\$	868,444
4. Net Increase (2.e. – 3.f.)		1,606,449		(1,462,063)
5. Net Assets (1. + 4.)	\$	9,124,016	\$	7,661,953
6. Rate of Return Net of Investment Fees	•	•		•
$(2I / [A + B - I] Method^3)$		22.7%		-15.0%

_

³ A = beginning-of-year market value of assets, B = end-of-year market value of assets, I = investment return during the year



(Gain)/Loss on Market Value of Assets for Plan Year Ended June 30, 2022

MVA (Gain)/Loss for Plan Year Ended June 30, 2022	
Market Value of Assets (MVA)	
a. MVA as of 7/1/2021	\$ 9,124,016
b. Interest on a. to 6/30/2022	501,821
c. Contributions with Interest to 6/30/2022	791,024
d. Benefit Payments with Interest to 6/30/2022	890,979
e. Administrative Expenses with Interest to 6/30/2022	1,027
f. Expected MVA at 6/30/2022 (a. + b. + c. – d. – e.)	9,524,855
g. Actual MVA at 6/30/2022	7,661,953
h. MVA (Gain)/Loss (f g.)	1,862,902

Development of Actuarial Value of Assets

The actuarial asset value as of July 1, 2022 is determined by spreading the asset gain or loss for each year over a four-year period. The asset gain or loss is the amount by which the actual asset return differs from the expected asset return on a market-value basis.

					July 1, 2022
1.	Market Value	of Assets			\$ 7,661,953
2.	Spreading of	Investme	nt (Gains)/Losse	S	
	Fiscal Year		(Gain)/Loss	% Deferred	Amount Deferred
	2022	\$	1,862,902	75%	\$ 1,397,177
	2021		(1,325,265)	50%	(662,633)
	2020		198,904	25%	49,726
	a. Tot	al Deferre	d		784,270
3.	Actuarial Valu	ue of Asse	\$ 8,446,223		
4.	Rate of Retur (2I / [A + B –		nvestment Fees		3.85%



Section VI. Experience (Gain)/Loss

Experience (Gain)/Loss for Plan Year Ended June 30, 2022

Ex	per	ience (Gain)/Loss for Plan Year Ended June 30, 2022		
1.	Lia	bilities		
	a.	Actuarial Accrued Liability as of 7/1/2021	\$	16,832,263
	b.	Normal Cost as of 7/1/2021		403,021
	C.	Interest on a. and b. to 6/30/2022		947,941
	d.	Benefit Payments with Interest to 6/30/2022		890,979
	e.	Effect of Assumption Changes		0
	f.	Expected Liability at 7/1/2022 (a. + b. + c d. + e.)		17,292,246
	g.	Actual Liability at 7/1/2022		17,167,484
	h.	Liability (Gain)/Loss (g f.)		(124,762)
2.	Ac	tuarial Value of Assets (AVA)		
	a.	AVA as of 7/1/2021	\$	8,229,519
	b.	Interest on a. to 6/30/2022		452,624
	C.	Contributions with Interest to 6/30/2022		791,024
	d.	Benefit Payments with Interest to 6/30/2022		890,979
	e.	Administrative Expenses with Interest to 6/30/2022		1,027
	f.	Expected AVA at 6/30/2022 (a. + b. + c d e.)		8,581,161
	g.	Actual AVA at 6/30/2022		8,446,223
	h.	AVA (Gain)/Loss (f g.)		134,938
	_	(0) (1	•	10.1
3.	То	tal (Gain)/Loss (1h. + 2h.)	\$	10,176

The gains and losses shown are only for liability and asset gains and losses. Any change in the Unfunded Actuarial Accrued Liability from funding more or less than needed to cover Normal Cost and interest on the Unfunded Actuarial Accrued Liability is a separate amount.



Section VII. Risk Measures

Risk Measures

Pension plans are complicated financial instruments designed to provide income security for plan participants as they move through their working lives and into retirement. As such they can be subject to many different forces that can put the plan in better or worse positions over time. The primary risk that a plan sponsor incurs from a defined benefit plan is the risk of substantial increases in annual contributions.

The "maturity" level of a plan can indicate the likely sensitivity the plan will have to different events whether positive or negative. Variations in the investment returns are a common source of these types of events or shocks. Other sources might be experience that differs from that assumed, assumption changes or plan changes.

Actuarial Standard of Practice No. 51 Assessment and Disclosure of Risk Associated with Measuring Pension Obligations and Determining Pension Plan Contributions requires actuaries to provide information so that users of the report can better understand the potential for future results to vary from the results presented in this report and identify risks on the plan's future financial condition. This standard does not require the assessment to be based on numerical calculations. In some cases, a more in-depth review of plan risk is warranted.

Examples of risk common to most public plans include the following (generally listed from greatest to least risk):

- Investment risk: The potential that investment returns will be different than expected.
 The Trustees are well aware of this risk. This valuation reflects the smoothing of asset
 returns, which reduces the risk of wide year-by-year contribution changes due to
 investment return fluctuations but does not ultimately reduce the risk inherent in a
 defined benefit plan.
- Contribution risk: Most commonly this is associated with the potential that actual future contributions are not made in accordance with the plan's actuarially based funding policy.
- Longevity and other demographic risks: The potential that mortality or other demographic experience will be different than expected.
- Asset/liability mismatch risk: The potential that changes in asset values are not matched by changes in the value of liabilities.
- Cash flow risks: The potential that contributions coming into the plan will not cover benefit payments. While common in well-funded plans, this still requires the use of interest, dividends or principal to cover benefit payments. When assets need to be sold (or more cash held) it can be an issue. Poorly funded plans with DROP lump sum payments can magnify the issue.

One item left off this list is "interest rate risk" (i.e., the potential that interest rates will be different than expected). This risk is common in corporate ERISA plans where funding is based on bond rates. Interest rates on bonds are still an important consideration when setting an expected return assumption and can change over time.



There are several plan maturity measures that can be significant to understanding the risks associated with the plan. The following table shows four commonly used measures of the relative riskiness of a pension plan, relative to the plan sponsor and the employee group covered by the plan and how they have changed over time.

Risk Measure	July 1, 2020	July 1, 2021	July 1, 2022
Inactive AAL Percent of Total AAL	74.0%	72.0%	77.8%
Assets (MVA) to Payroll	6.5	7.4	6.1
Liabilities to Payroll	15.3	13.7	13.6
Benefit Payments to Contributions	1.0	1.1	1.1

The Assets to Payroll ratio, also called the Asset Volatility Ratio (AVR), is equal to the market value of assets (MVA) divided by payroll. A higher AVR implies that the plan is exposed to greater contribution volatility. The current Assets to Payroll of 6.1 indicates that a 1% asset gain/loss is about 6.1% of the annual payroll.

The Liabilities to Payroll ratio, also called the Liability Volatility Ratio (LVR), is equal to the Actuarial Accrued Liability (AAL) divided by payroll. A higher LVR implies that the plan is exposed to greater contribution volatility due to changes in liability measurements. Similarly, the current *Liabilities to Payroll* of 13.6 indicates that a 1% change in liability is about 13.6% of the annual payroll.

The use of payroll in these risk measures is generally an easily available substitute for the employer's revenue and often reflects the employer's ability to afford the plan. Each of these measures are a measure of plan maturity. The common evolution of a pension plan is to become more mature over time. Mature plans present more risk to plan sponsors because changes to the liability or assets will result in large changes in the unfunded liability as compared to the overall size of the employer as measured by payroll. As a result, the change in the metrics over time can be as important as the nominal size of the metric itself.



Additional Review

In some instances, more detailed quantitative assessment of risks is warranted either by the above maturity metrics, part of a periodic self-assessment of risks, or due to changes in investment allocations and capital market assumptions. The following are examples of tests that could be performed:

- Scenario Test—A process for assessing the impact of one possible event, or several simultaneously or sequentially occurring possible events, on a plan's financial condition. A scenario test could show, for example, the effect of a layoff or reduction in workforce, or early retirement program.
- Sensitivity Test—A process for assessing the impact of a change in an actuarial
 assumption on an actuarial measurement. A sensitivity analysis could demonstrate, for
 example, the impact of a decrease in the valuation discount rate or a change in future
 life expectancies.
- Stochastic Modeling—A process for generating numerous potential outcomes by allowing for random variations in one or more inputs over time for the purpose of assessing the distribution of those outcomes. This type of analysis could show, for example, a range of potential future contribution levels and the likelihood of contributions increasing to a certain level.
- Stress Test—A process for assessing the impact of adverse changes in one or relatively few factors affecting a plan's financial condition. A stress test could show, for example, the impact of a single year or period of several years with significant investment losses.

Section VIII. Projections for Premium Tax and COLA Eligibility



Table 1 – Open Group Projection (Determines Eligibility for Premium Tax Allocation)

	Number	(BOY)						Assets								
Year End June 30	Active	Non- Active	Total Payroll	MVA (BOY)	Benefit Payments	Expenses	Employer Contrib.	Employee Contrib.	Premium Tax Allocation	Investment Income	MVA (EOY)	AVA (EOY)	Actuarial Accrued Liability	Unfunded Liability	Projected Unfunded Liability	AVA Funded Ratio
2022 2023	23 24	33 34	\$1,225,673 \$1,266,133	\$9,124,016 \$7,661,953	\$867,444 \$965,930	\$1,000 \$1,187	\$397,428 \$425,248	\$122,343 \$120,341	\$250,358 \$231,263	(1,363,748) \$416,245	\$7,661,953 \$7,887,933	\$8,446,223 \$8,488,068	\$17,167,484 \$17,555,533	\$8,721,261 \$9,067,465	\$8,840,195 \$9,149,373	49.20% 48.35%
2024	24	24	\$1,335,888	\$7,887,933	\$910,254	\$1,217	\$455,015	\$126,971	\$274,216	\$432,337	\$8,265,001	\$8,730,727	\$18,047,516	\$9,316,789	\$9,396,721	48.38%
2025	24	24	\$1,408,262	\$8,265,001	\$920,973	\$1,247	\$486,866	\$133,848	\$276,298	\$453,891	\$8,693,684	\$8,693,684	\$18,581,745	\$9,888,061	\$9,970,288	46.79%
2026	24	24	\$1,482,870	\$8,693,684	\$928,559	\$1,278	\$520,947	\$140,936	\$289,857	\$478,747	\$9,194,334	\$9,194,334	\$19,164,622	\$9,970,288	\$10,022,481	47.98%
2027	24	24	\$1,525,344	\$9,194,334	\$956,213	\$1,310	\$557,413	\$145,017	\$296,790	\$506,820	\$9,742,851	\$9,742,851	\$19,765,332	\$10,022,481	\$10,047,453	49.29%
2028	24	25	\$1,600,903	\$9,742,851	\$994,861	\$1,371	\$596,432	\$152,172	\$303,896	\$537,383	\$10,336,502	\$10,336,502	\$20,383,955	\$10,047,453	\$10,043,894	50.71%
2029	24	25	\$1,683,455	\$10,336,502	\$1,018,702	\$1,405	\$638,182	\$160,010	\$311,180	\$570,930	\$10,996,697	\$10,996,697	\$21,040,591	\$10,043,894	\$10,005,601	52.26%
2030	24	25	\$1,767,920	\$10,996,697	\$1,037,650	\$1,440	\$682,855	\$168,033	\$321,044	\$608,423	\$11,737,962	\$11,737,962	\$21,743,563	\$10,005,601	\$9,924,821	53.98%
2031	24	25	\$1,833,799	\$11,737,962	\$1,066,454	\$1,476	\$730,655	\$174,317	\$329,537	\$650,108	\$12,554,649	\$12,554,649	\$22,479,470	\$9,924,821	\$9,793,313	55.85%
2032	24	25	\$1,903,003	\$12,554,649	\$1,110,390	\$1,513	\$781,801	\$180,897	\$339,738	\$695,675	\$13,440,857	\$13,440,857	\$23,234,170	\$9,793,313	\$9,606,328	57.85%
2033	24	26	\$1,978,656	\$13,440,857	\$1,149,105	\$1,582	\$836,527	\$188,089	\$347,896	\$745,266	\$14,407,948	\$14,407,948	\$24,014,276	\$9,606,328	\$9,360,424	60.00%
2034	24	26	\$2,070,896	\$14,407,948	\$1,186,992	\$1,622	\$895,084	\$196,839	\$357,299	\$799,508	\$15,468,064	\$15,468,064	\$24,828,488	\$9,360,424	\$9,044,970	62.30%
2035	24	26	\$2,152,309	\$15,468,064	\$1,217,817	\$1,663	\$957,740	\$204,590	\$367,848	\$859,173	\$16,637,935	\$16,637,935	\$25,682,905	\$9,044,970	\$8,652,761	64.78%
2036	24	27	\$2,235,679	\$16,637,935	\$1,265,182	\$1,739	\$1,024,782	\$212,519	\$378,109	\$924,542	\$17,910,966	\$17,910,966	\$26,563,727	\$8,652,761	\$8,174,562	67.43%
2037	24	27	\$2,323,314	\$17,910,966	\$1,313,759	\$1,782	\$1,096,517	\$220,841	\$389,497	\$995,720	\$19,298,000	\$19,298,000	\$27,472,562	\$8,174,562	\$7,586,976	70.24%
2038	24	27	\$2,400,145	\$19,298,000	\$1,365,484	\$1,827	\$1,173,273	\$228,172	\$409,618	\$1,073,430	\$20,815,182	\$20,815,182	\$28,402,158	\$7,586,976	\$6,894,318	73.29%
2039	24	28	\$2,495,129	\$20,815,182	\$1,436,371	\$1,909	\$1,255,402	\$237,188	\$419,482	\$1,157,690	\$22,446,664	\$22,446,664	\$29,340,982	\$6,894,318	\$6,089,286	76.50%
2040	24	28	\$2,600,382	\$22,446,664	\$1,489,790	\$1,957	\$1,343,280	\$247,178	\$429,593	\$1,248,900	\$24,223,868	\$24,223,868	\$30,313,154	\$6,089,286	\$5,158,784	79.91%
2041	24	29	\$2,703,927	\$24,223,868	\$1,544,055	\$2,045	\$1,437,310	\$257,025	\$439,956	\$1,348,271	\$26,160,330	\$26,160,330	\$31,319,114	\$5,158,784	\$4,082,294	83.53%
2042	24	29	\$2,822,241	\$26,160,330	\$1,589,566	\$2,096	\$1,537,922	\$268,243	\$460,891	\$1,457,143	\$28,292,867	\$28,292,867	\$32,375,161	\$4,082,294	\$2,848,425	87.39%
2043	24	29	\$2,913,179	\$28,292,867	\$1,656,219	\$2,148	\$1,645,577	\$276,940	\$473,872	\$1,576,132	\$30,607,021	\$30,607,021	\$33,455,446	\$2,848,425	\$1,440,472	91.49%
2044	24	30	\$3,028,940	\$30,607,021	\$1,732,612	\$2,243	\$1,760,767	\$287,926	\$492,638	\$1,705,267	\$33,118,764	\$33,118,764	\$34,559,236	\$1,440,472	-	95.83%
2045	24	30	\$3,162,153	\$33,118,764	\$1,789,213	\$2,299	\$1,884,021	\$300,572	\$357,971	\$1,841,910	\$35,711,726	\$35,711,726	\$35,711,726	-	-	100.00%
2046 2047	24 24	30 30	\$3,286,011	\$35,711,726	\$1,847,541	\$2,356 \$2,415	\$792,756	\$312,355	-	\$1,943,937	\$36,910,877 \$38,170,592	\$36,910,877	\$36,910,877	-	-	100.00% 100.00%
2047	24	30	\$3,422,221 \$3,516,691	\$36,910,877 \$38,170,592	\$1,898,889 \$1,982,496	\$2,415 \$2,475	\$825,986 \$849,402	\$325,285	-	\$2,009,748 \$2,077,643	\$39,446,981	\$38,170,592 \$39,446,981	\$38,170,592 \$39,446,981	-	-	100.00%
2049	24	31	\$3,630,184	\$39,446,981	\$2,086,451	\$2,475	\$878,648	\$334,315 \$345,096	-	\$2,077,043	\$40,727,797	\$40,727,797	\$40,727,797	-	-	100.00%
2049	24	31	\$3,771,492	\$40,727,797	\$2,165,975	\$2,5649	\$913,478	\$358,504	-	\$2,146,107	\$42,046,856	\$40,727,797	\$40,727,797	-		100.00%
2050	24	31	\$3,920,407	\$42,046,856	\$2,103,975	\$2,049	\$949,124	\$372,651		\$2,213,701	\$43,425,929	\$43,425,929	\$43,425,929		-	100.00%
2052	24	31	\$4,059,351	\$43,425,929	\$2,227,903	\$2,713	\$982,179	\$385,868		\$2,363,185	\$44,858,797	\$44,858,797	\$44,858,797			100.00%
2052	24	31	\$4,203,911	\$44,858,797	\$2,368,290	\$2,853	\$1,016,754	\$399,609	_	\$2,441,329	\$46,345,346	\$46,345,346	\$46,345,346	-	-	100.00%
2054	24	31	\$4,354,837	\$46,345,346	\$2,440,995	\$2,924	\$1,052,713	\$413,955	_	\$2,522,479	\$47,890,574	\$47,890,574	\$47,890,574	-		100.00%
2055	24	31	\$4,514,264	\$47,890,574	\$2,512,638	\$2,997	\$1,090,784	\$429,104	_	\$2,606,965	\$49,501,792	\$49,501,792	\$49,501,792	-	_	100.00%
2056	24	31	\$4,671,503	\$49,501,792	\$2,589,534	\$3,072	\$1,128,532	\$444,057	-	\$2,694,924	\$51,176,699	\$51,176,699	\$51,176,699	-	-	100.00%
2057	24	31	\$4,834,657	\$51,176,699	\$2,671,215	\$3,149	\$1,167,710	\$459,567	-	\$2,786,309	\$52,915,921	\$52,915,921	\$52,915,921	-	-	100.00%
2058	24	30	\$5,005,311	\$52,915,921	\$2,753,630	\$3,169	\$1,208,559	\$475,786	-	\$2,881,278	\$54,724,745	\$54,724,745	\$54,724,745	-	-	100.00%
2059	24	30	\$5,181,123	\$54,724,745	\$2,837,382	\$3,248	\$1,250,448	\$492,501	-	\$2,980,079	\$56,607,143	\$56,607,143	\$56,607,143	-	-	100.00%
2060	24	30	\$5,361,324	\$56,607,143	\$2,927,744	\$3,329	\$1,293,145	\$509,631	_	\$3,082,780	\$58,561,626	\$58,561,626	\$58,561,626	-	_	100.00%
2061	24	30	\$5,548,918	\$58,561,626	\$3,022,304	\$3,412	\$1,337,986	\$527,463	-	\$3,189,409	\$60,590,768	\$60,590,768	\$60,590,768	-	-	100.00%
2062	24	30	\$5,743,467	\$60,590,768	\$3,119,489	\$3,497	\$1,384,728	\$545,956	-	\$3,300,143	\$62,698,609	\$62,698,609	\$62,698,609	-	-	100.00%
2063	24	30	\$5,946,763	\$62,698,609	\$3,219,144	\$3,584	\$1,433,715	\$565,276	-	\$3,415,221	\$64,890,093	\$64,890,093	\$64,890,093	-	-	100.00%



Table 2 – Closed Group Projection (Determines Whether COLA is Granted)

	Numbe	(BOY)						Assets								
Year End June 30	Active	Non- Active	Total Payroll	MVA (BOY)	Benefit Payments	Expenses	Employer Contrib.	Employee Contrib.	Premium Tax Allocation	Investment Income	MVA (EOY)	AVA (EOY)	Actuarial Accrued Liability	Unfunded Liability	Projected Unfunded Liability	AVA Funded Ratio
2022	23	33	\$1,225,673	\$9,124,016	\$867,444	\$1,000	\$397,428	\$122,343	\$250,358	(1,363,748)	\$7,661,953	\$8,446,223	\$17,167,484	\$8,721,261	\$8,840,195	49.20%
2023	24	34	\$1,266,133	\$7,661,953	\$965,930	\$1,187	\$425,248	\$120,341	\$231,263	\$416,245	\$7,887,933	\$8,488,068	\$17,555,533	\$9,067,465	\$9,129,422	48.35%
2024	22	24	\$1,254,461	\$7,887,933	\$909,877	\$1,217	\$455,015	\$119,231	\$274,216	\$432,137	\$8,257,438	\$8,723,164	\$18,020,002	\$9,296,838	\$9,333,183	48.41%
2025 2026	21 19	24 24	\$1,235,227	\$8,257,438 \$8,670,323	\$919,527 \$925,324	\$1,220 \$1,195	\$486,866 \$520,947	\$117,399 \$115,844	\$276,298 \$289,857	\$453,069 \$476,871	\$8,670,323 \$9,147,323	\$8,670,323 \$9,147,323	\$18,494,847 \$18,985,622	\$9,824,524 \$9,838,299	\$9,838,299 \$9,796,395	46.88% 48.18%
2026		24	\$1,218,911				\$520,947 \$557,413									49.66%
2027	18 16	25	\$1,172,998 \$1,114,341	\$9,147,323 \$9,664,755	\$950,579 \$986,208	\$1,196 \$1,197	\$557,413 \$596,432	\$111,523 \$105,920	\$296,790 \$303,896	\$503,481 \$532,073	\$9,664,755 \$10,215,671	\$9,664,755 \$10,215,671	\$19,461,150 \$19,904,602	\$9,796,395 \$9,688,931	\$9,688,931 \$9,517,884	49.00% 51.32%
2029	15	25	\$1,085,250	\$10,215,671	\$1,006,531	\$1,197	\$638,182	\$103,920	\$303,090	\$563,077	\$10,823,529	\$10,213,671	\$20,341,413	\$9,517,884	\$9,277,341	53.21%
2029	14	25	\$1,065,250	\$10,213,671	\$1,000,531	\$1,197	\$682,855	\$103,147	\$311,160	\$597,545	\$10,623,329	\$10,623,529	\$20,341,413	\$9,277,341	\$8,959,082	55.36%
2031	13	25	\$1,037,597	\$11,504,040	\$1,045,198	\$1,194	\$730,655	\$98,634	\$329,537	\$635,773	\$12,252,247	\$12,252,247	\$21,211,329	\$8,959,082	\$8,547,142	57.76%
2032	12	25	\$987,444	\$12,252,247	\$1,083,677	\$1,192	\$781,801	\$93,872	\$339,738	\$677.415	\$13,060,204	\$13,060,204	\$21,607,346	\$8.547.142	\$8,032,061	60.44%
2032	11	26	\$934,476	\$13,060,204	\$1,116,723	\$1,222	\$836,527	\$88,839	\$347,896	\$722,525	\$13,938,046	\$13,938,046	\$21,970,107	\$8,032,061	\$7,406,808	63.44%
2034	10	26	\$894,606	\$13,938,046	\$1,148,152	\$1,219	\$895,084	\$85,032	\$357,299	\$771,695	\$14,897,785	\$14,897,785	\$22,304,593	\$7,406,808	\$6,661,387	66.79%
2035	9	26	\$858,638	\$14,897,785	\$1,171,718	\$1,215	\$957,740	\$81,627	\$367,848	\$825,735	\$15,957,802	\$15,957,802	\$22,619,189	\$6,661,387	\$5,781,586	70.55%
2036	8	26	\$807,792	\$15,957,802	\$1,210,949	\$1,210	\$1,024,782	\$76,800	\$378,109	\$884,938	\$17,110,272	\$17,110,272	\$22,891,858	\$5,781,586	\$4,753,283	74.74%
2037	8	27	\$754,206	\$17,110,272	\$1,251,021	\$1,277	\$1,096,517	\$71,700	\$389,497	\$949,351	\$18,365,039	\$18,365,039	\$23,118,322	\$4,753,283	\$3,549,340	79.44%
2038	7	27	\$689,542	\$18,365,039	\$1,294,156	\$1,272	\$1,173,273	\$65,584	\$409,618	\$1,019,656	\$19,737,742	\$19,737,742	\$23,287,082	\$3,549,340	\$2,162,314	84.76%
2039	6	27	\$610,380	\$19,737,742	\$1,355,450	\$1,265	\$1,255,402	\$58,049	\$419,482	\$1,095,783	\$21,209,743	\$21,209,743	\$23,372,057	\$2,162,314	\$582,648	90.75%
2040	5	28	\$550,483	\$21,209,743	\$1,398,012	\$1,297	\$1,343,280	\$52,345	\$429,593	\$1,178,092	\$22,813,744	\$22,813,744	\$23,396,392	\$582,648	-	97.51%
2041	4	28	\$494,553	\$22,813,744	\$1,440,602	\$1,289	\$703,045	\$47,035	-	\$1,235,986	\$23,357,919	\$23,357,919	\$23,357,919	-	-	100.00%
2042	4	28	\$444,939	\$23,357,919	\$1,474,365	\$1,321	\$91,822	\$42,295	-	\$1,248,286	\$23,264,636	\$23,264,636	\$23,264,636	-	-	100.00%
2043	3	28	\$382,350	\$23,264,636	\$1,528,537	\$1,312	\$77,982	\$36,405	-	\$1,241,151	\$23,090,325	\$23,090,325	\$23,090,325	-	-	100.00%
2044	2	28	\$299,082	\$23,090,325	\$1,585,216	\$1,301	\$59,623	\$28,459	-	\$1,229,312	\$22,821,202	\$22,821,202	\$22,821,202	-	-	100.00%
2045	2	28	\$256,208	\$22,821,202	\$1,610,393	\$1,334	\$49,649	\$24,364	-	\$1,213,445	\$22,496,933	\$22,496,933	\$22,496,933	-	-	100.00%
2046	2	28	\$223,211	\$22,496,933	\$1,631,984	\$1,367	\$42,657	\$21,238	-	\$1,194,749	\$22,122,226	\$22,122,226	\$22,122,226	-	-	100.00%
2047	1	28	\$195,524	\$22,122,226	\$1,642,744	\$1,354	\$37,118	\$18,590	-	\$1,173,626	\$21,707,462	\$21,707,462	\$21,707,462	-	-	100.00%
2048	1	28	\$152,925	\$21,707,462	\$1,672,478	\$1,388	\$28,984	\$14,577	-	\$1,149,677	\$21,226,834	\$21,226,834	\$21,226,834	-	-	100.00%
2049	1	27	\$88,281	\$21,226,834	\$1,711,648	\$1,374	\$17,230	\$8,427	-	\$1,121,694	\$20,661,163	\$20,661,163	\$20,661,163	-	-	100.00%
2050	0	27	\$46,932	\$20,661,163	\$1,723,855	\$1,358	\$9,753	\$4,474	-	\$1,089,942	\$20,040,119	\$20,040,119	\$20,040,119	-	-	100.00%
2051	0	27	\$28,429	\$20,040,119	\$1,716,841	\$1,392	\$6,474	\$2,711	-	\$1,055,837	\$19,386,908	\$19,386,908	\$19,386,908	-	-	100.00%
2052	0	26	\$17,219	\$19,386,908	\$1,701,766	\$1,374	\$4,455	\$1,641	-	\$1,020,236	\$18,710,100	\$18,710,100	\$18,710,100	-	-	100.00%
2053	0	25	\$9,751	\$18,710,100	\$1,681,398	\$1,354	\$3,090	\$930	-	\$983,508	\$18,014,876	\$18,014,876	\$18,014,876	-	-	100.00%
2054	0	25	\$5,270	\$18,014,876	\$1,656,308	\$1,388	\$2,320	\$503	-	\$945,918	\$17,305,921	\$17,305,921	\$17,305,921	-	-	100.00%
2055	0	24	\$2,842	\$17,305,921	\$1,627,276	\$1,366	\$1,868	\$271	-	\$907,696	\$16,587,114	\$16,587,114	\$16,587,114	-	-	100.00%
2056	0	23	\$1,541	\$16,587,114	\$1,595,146	\$1,342	\$1,615	\$147	-	\$869,023	\$15,861,411	\$15,861,411	\$15,861,411	-	-	100.00%
2057	0	22	\$954	\$15,861,411	\$1,560,344	\$1,316	\$1,484	\$91	-	\$830,050	\$15,131,376	\$15,131,376	\$15,131,376	-	-	100.00%
2058	0	21	\$287	\$15,131,376	\$1,523,745	\$1,288	\$1,337	\$28	-	\$790,886	\$14,398,594	\$14,398,594	\$14,398,594	-	-	100.00%
2059	0	21	-	\$14,398,594	\$1,485,083	\$1,320	\$1,320	-	-	\$751,630	\$13,665,141	\$13,665,141	\$13,665,141	-	-	100.00%
2060	0	20	-	\$13,665,141	\$1,444,722	\$1,289	\$1,289	-	-	\$712,385	\$12,932,804	\$12,932,804	\$12,932,804	-	-	100.00%
2061	0	19	-	\$12,932,804	\$1,403,160	\$1,255	\$1,255	-	-	\$673,234	\$12,202,878	\$12,202,878	\$12,202,878	-	-	100.00%
2062	0	18	-	\$12,202,878	\$1,360,598	\$1,219	\$1,219	-	-	\$634,243	\$11,476,523	\$11,476,523	\$11,476,523	-	-	100.00%
2063	0	17	-	\$11,476,523	\$1,317,396	\$1,180	\$1,180	-	-	\$595,465	\$10,754,592	\$10,754,592	\$10,754,592	-	-	100.00%



Section IX. Funding Policy Change Analysis

Funding Policy Options

For plans using the Alternative funding policy, West Virginia Code §8-22-20 requires the actuarial valuation report to provide an evaluation of the plan and to assess advantages of changing to other funding policies. The other funding policies available to this plan are the Optional and Optional II funding policies. The Optional funding policy is defined in West Virginia Code §8-22-20(e)(1) and is effective for plan years beginning on or after January 1, 2010. The Optional II funding policy is defined in West Virginia Code §8-22-20(g)(2) and is effective for plan years beginning on or after July 1, 2023.

If the municipality were to choose to fund using the Optional or Optional II funding policies in lieu of the Alternative policy, then the following conditions would apply to the plan:

- The required total contribution to the plan, including the premium tax allocation and employee contributions, would equal the normal cost plus a layered, level dollar amortization of the unfunded accrued liability.
- The initial unfunded liability upon switching to the policy must be amortized over a period of no more than:
 - Optional: 40 years beginning January 1, 2010 (26.5 years remaining for contributions developed for the fiscal year ending June 30, 2024).
 - Optional II: 40 years beginning July 1, 2023 (40.0 years remaining for contributions developed for the fiscal year ending June 30, 2024)
 - For more information about these funding policies please see West Virginia Funding Policies within Section XII. Actuarial Methods and Assumptions.
- The pension and relief fund would close to newly-hired police officers or firemen after the date of the change and new hires would join the statewide plan - Municipal Police Officers and Firefighters Retirement System (MPFRS).
 - Employer contributions for MPFRS currently equal 8.5% of pay
 - Employee contributions for MPFRS currently equal 8.5% of pay
 - The West Virginia Consolidated Public Retirement Board can change the employer contribution and employee contribution rate to a percentage of pay between 8.5% and 10.5% as needed to maintain an actuarially sound pension plan.

As stated previously, the Alternative funding policy does not adhere to actuarial principles generally considered necessary for classification as a reasonable funding policy. An example of a reasonable funding method is one that develops a contribution as the sum of (1) the cost of the additional benefits earned by the employees for that year (i.e. the normal cost) and (2) a level dollar or level percentage of pay amortization of the unfunded accrued liability. Both the Optional and Optional II funding policies achieve this goal, but the Alternative funding policy does not.

To help the municipality understand the impact of switching, we calculated the projected contributions, liabilities, and assets over a 40-year period under two different scenarios. The first scenario assumes the municipality switches to either the Optional or Optional II funding



policies in the next valuation year. The second scenario assumes the municipality switches to either the Optional or Optional II funding policies in the year that the contribution for that funding policy is projected to be the same or less than the contribution under the Alternative funding policy. The projections are provided on the following pages of this report.

Scenario 1 – Immediate Change

The following tables show the estimated contribution under the three funding policies in the next fiscal year and in 2063 assuming the municipality elects one of the new funding policies for the next fiscal year:

Contribution Comparison for FYE June 30, 2024										
		Local Pla	n	State Pla	an	Total				
Funding Policy	AVA Funded Status	Amount	% of Pay	Amount	% of Pay	Amount	% of Pay			
Alternative	49.2%	\$455,015	34.1%	N/A	N/A	\$455,015	34.1%			
Optional	49.2%	\$654,291	52.2%	\$6,921	8.5%	\$661,212	49.5%			
Optional II	49.2%	\$566,169	45.1%	\$6,921	8.5%	\$573,090	42.9%			

	Contribution Comparison for FYE June 30, 2063										
		Local Pla	n	State Pla	n	Total					
Funding Policy	100% Funded Year	Amount	% of Pay	Amount	% of Pay	Amount	% of Pay				
Alternative	2045	\$1,433,715	24.1%	N/A	N/A	\$1,433,715	24.1%				
Optional	2050	\$1,180	N/A	\$505,475	8.5%	\$506,655	8.5%				
Optional II	2060	\$1,180	N/A	\$505,475	8.5%	\$506,655	8.5%				

The projected year-by-year contribution requirements under the Optional and Optional II policies for the current plan are detailed in the projections in Tables 3 – 6 on the following pages.



Scenario 2 – Change When Fiscally Advantageous

The following tables show estimated contributions under the Optional and Optional II funding policies if the municipality switches to these funding policies in the year that the estimated contribution is smaller than the contribution under the Alternative funding policy. The first table shows the contribution in the year of the change in funding policy, while the second table shows the contribution at the end of the projection period (FYE 2063).

	Contribution Comparison for Fiscal Year of Change										
		Current Policy	Current Policy New Policy								
Funding Policy	Year of Change	Total (Local + State) Contribution in Year of Change	Total (Local + State) Contribution in Year of Change	New Policy Contribution Minus Alternative							
Optional	2036	\$1,024,782	\$1,015,174	\$(9,608)							
Optional II	2032	\$781,801	\$752,673	\$(29,128)							

Contribution Comparison for FYE June 30, 2063													
Current Policy New Policy Difference													
Funding Policy	AVA Funded Status	Total (Local + State) Contribution in FYE 2063	Total (Local + State) Contribution in FYE 2063	New Policy Contribution Minus Alternative									
Optional	100%	\$1,433,715	\$511,211	\$(922,504)									
Optional II	100%	\$1,433,715	\$507,343	\$(926,372)									

The projected year-by-year contribution requirements under the Optional and Optional II policies assume the municipality switches funding policies in the year that the new funding policy contribution is projected to be less than the Alternative policy contribution. If the "Year of Change" is "after 2063" then the new funding policy contribution is not projected to be less than the Alternative funding policy contribution in the 40-year projection period. In this case, the *Difference* column is the amount that the Optional or Optional II funding policy contribution exceeds the Alternative contribution in 2063.



Table 3 – Switch to Optional Funding Policy in 2024

	Numbe	umber (BOY)					Assets								
Year End June 30	Active	Non- Active	MVA (BOY)	Benefit Payments	Expenses	Employer Contrib.	Employee Contrib.	Premium Tax Allocation	Investment Income	MVA (EOY)	AVA (EOY)	Actuarial Accrued Liability	Unfunded Liability	Projected Unfunded Liability	AVA Funded Ratio
2022	23	33	\$9,124,016	\$867,444	\$1,000	\$397,428	\$122,343	\$250,358	(1,363,748)	\$7,661,953	\$8,446,223	\$17,167,484	\$8,721,261	\$8,840,195	49.20%
2023	24	34	\$7,661,953	\$965,930	\$1,187	\$425,248	\$120,341	\$231,263	\$416,245	\$7,887,933	\$8,488,068	\$17,555,533	\$9,067,465	\$8,924,739	48.35%
2024	22	24	\$7,887,933	\$909,877	\$1,217	\$654,291	\$119,231	\$274,216	\$437,544	\$8,462,121	\$8,927,847	\$18,020,002	\$9,092,155	\$8,926,899	49.54%
2025	21	24	\$8,462,121	\$919,527	\$1,220	\$672,181	\$117,399	\$276,298	\$469,354	\$9,076,606	\$9,076,606	\$18,494,847	\$9,418,241	\$9,253,323	49.08%
2026	19	24	\$9,076,606	\$925,324	\$1,195	\$673,164	\$115,844	\$289,857	\$503,347	\$9,732,299	\$9,732,299	\$18,985,622	\$9,253,323	\$9,027,693	51.26%
2027	18	24	\$9,732,299	\$950,579	\$1,196	\$704,962	\$111,523	\$296,790	\$539,658	\$10,433,457	\$10,433,457	\$19,461,150	\$9,027,693	\$8,789,654	53.61%
2028	16	25	\$10,433,457	\$986,208	\$1,197	\$682,396	\$105,920	\$303,896	\$576,684	\$11,114,948	\$11,114,948	\$19,904,602	\$8,789,654	\$8,538,523	55.84%
2029	15	25	\$11,114,948	\$1,006,531	\$1,197	\$667,997	\$103,147	\$311,180	\$613,346	\$11,802,890	\$11,802,890	\$20,341,413	\$8,538,523	\$8,273,579	58.02%
2030	14	25	\$11,802,890	\$1,021,199	\$1,196	\$654,169	\$101,462	\$321,044	\$650,632	\$12,507,802	\$12,507,802	\$20,781,381	\$8,273,579	\$7,994,064	60.19%
2031	13	25	\$12,507,802	\$1,045,198	\$1,194	\$639,186	\$98,634	\$329,537	\$688,498	\$13,217,265	\$13,217,265	\$21,211,329	\$7,994,064	\$7,699,175	62.31%
2032	12	25	\$13,217,265	\$1,083,677	\$1,192	\$616,168	\$93,872	\$339,738	\$725,997	\$13,908,171	\$13,908,171	\$21,607,346	\$7,699,175	\$7,388,068	64.37%
2033	11	26	\$13,908,171	\$1,116,723	\$1,222	\$592,535	\$88,839	\$347,896	\$762,543	\$14,582,039	\$14,582,039	\$21,970,107	\$7,388,068	\$7,059,849	66.37%
2034	10	26	\$14,582,039	\$1,148,152	\$1,219	\$571,413	\$85,032	\$357,299	\$798,332	\$15,244,744	\$15,244,744	\$22,304,593	\$7,059,849	\$6,713,578	68.35%
2035	9	26	\$15,244,744	\$1,171,718	\$1,215	\$550,555	\$81,627	\$367,848	\$833,770	\$15,905,611	\$15,905,611	\$22,619,189	\$6,713,578	\$6,348,262	70.32%
2036	8	26	\$15,905,611	\$1,210,949	\$1,210	\$526,682	\$76,800	\$378,109	\$868,553	\$16,543,596	\$16,543,596	\$22,891,858	\$6,348,262	\$5,962,855	72.27%
2037	8	27	\$16,543,596	\$1,251,021	\$1,277	\$500,947	\$71,700	\$389,497	\$902,025	\$17,155,467	\$17,155,467	\$23,118,322	\$5,962,855	\$5,556,250	74.21%
2038	7	27	\$17,155,467	\$1,294,156	\$1,272	\$461,766	\$65,584	\$409,618	\$933,825	\$17,730,832	\$17,730,832	\$23,287,082	\$5,556,250	\$5,127,281	76.14%
2039	6	27	\$17,730,832	\$1,355,450	\$1,265	\$430,116	\$58,049	\$419,482	\$963,012	\$18,244,776	\$18,244,776	\$23,372,057	\$5,127,281	\$4,698,605	78.06%
2040	5	28	\$18,244,776	\$1,398,012	\$1,297	\$381,460	\$52,345	\$429,593	\$988,922	\$18,697,787	\$18,697,787	\$23,396,392	\$4,698,605	\$4,263,948	79.92%
2041	4	28	\$18,697,787	\$1,440,602	\$1,289	\$339,405	\$47,035	\$439,956	\$1,011,679	\$19,093,971	\$19,093,971	\$23,357,919	\$4,263,948	\$3,857,028	81.75%
2042	4	28	\$19,093,971	\$1,474,365	\$1,321	\$255,424	\$42,295	\$460,891	\$1,030,713	\$19,407,608	\$19,407,608	\$23,264,636	\$3,857,028	\$3,427,728	83.42%
2043	3	28	\$19,407,608	\$1,528,537	\$1,312	\$228,603	\$36,405	\$473,872	\$1,045,958	\$19,662,597	\$19,662,597	\$23,090,325	\$3,427,728	\$2,974,816	85.16%
2044	2	28	\$19,662,597	\$1,585,216	\$1,301	\$191,478	\$28,459	\$492,638	\$1,057,731	\$19,846,386	\$19,846,386	\$22,821,202	\$2,974,816	\$2,496,994	86.96%
2045	2	28	\$19,846,386	\$1,610,393	\$1,334	\$169,593	\$24,364	\$504,549	\$1,066,774	\$19,999,939	\$19,999,939	\$22,496,933	\$2,496,994	\$1,992,892	88.90%
2046	2	28	\$19,999,939	\$1,631,984	\$1,367	\$138,701	\$21,238	\$528,449	\$1,074,358	\$20,129,334	\$20,129,334	\$22,122,226	\$1,992,892	\$1,461,064	90.99%
2047	1	28	\$20,129,334	\$1,642,744	\$1,354	\$120,345	\$18,590	\$541,266	\$1,080,961	\$20,246,398	\$20,246,398	\$21,707,462	\$1,461,064	\$899,986	93.27%
2048	1	28	\$20,246,398	\$1,672,478	\$1,388	\$99,075	\$14,577	\$554,402	\$1,086,262	\$20,326,848	\$20,326,848	\$21,226,834	\$899,986	\$308,048	95.76%
2049	1	27	\$20,326,848	\$1,711,648	\$1,374	\$73,461	\$8,427	\$568,262	\$1,089,139	\$20,353,115	\$20,353,115	\$20,661,163	\$308,048	-	98.51%
2050	0	27	\$20,353,115	\$1,723,855	\$1,358	\$9,753	\$4,474	\$316,406	\$1,081,584	\$20,040,119	\$20,040,119	\$20,040,119	-	-	100.00%
2051	0	27	\$20,040,119	\$1,716,841	\$1,392	\$6,474	\$2,711	-	\$1,055,837	\$19,386,908	\$19,386,908	\$19,386,908	-	-	100.00%
2052	0	26	\$19,386,908	\$1,701,766	\$1,374	\$4,454	\$1,641	-	\$1,020,237	\$18,710,100	\$18,710,100	\$18,710,100	-	-	100.00%
2053	0	25	\$18,710,100	\$1,681,398	\$1,354	\$3,090	\$930	-	\$983,508	\$18,014,876	\$18,014,876	\$18,014,876	-	-	100.00%
2054	0	25	\$18,014,876	\$1,656,308	\$1,388	\$2,320	\$503	-	\$945,918	\$17,305,921	\$17,305,921	\$17,305,921	-	-	100.00%
2055	0	24	\$17,305,921	\$1,627,276	\$1,366	\$1,868	\$271	-	\$907,696	\$16,587,114	\$16,587,114	\$16,587,114	-	-	100.00%
2056	0	23	\$16,587,114	\$1,595,146	\$1,342	\$1,615	\$147	-	\$869,023	\$15,861,411	\$15,861,411	\$15,861,411	-	-	100.00%
2057	0	22	\$15,861,411	\$1,560,344	\$1,316	\$1,484	\$91	-	\$830,050	\$15,131,376	\$15,131,376	\$15,131,376	-	-	100.00%
2058	0	21	\$15,131,376	\$1,523,745	\$1,288	\$1,337	\$28	-	\$790,886	\$14,398,594	\$14,398,594	\$14,398,594	-	-	100.00%
2059	0	21	\$14,398,594	\$1,485,083	\$1,320	\$1,320	-	-	\$751,630	\$13,665,141	\$13,665,141	\$13,665,141	-	-	100.00%
2060	0	20	\$13,665,141	\$1,444,722	\$1,289	\$1,289	-	-	\$712,385	\$12,932,804	\$12,932,804	\$12,932,804	-	-	100.00%
2061	0	19	\$12,932,804	\$1,403,160	\$1,255	\$1,255	-	-	\$673,234	\$12,202,878	\$12,202,878	\$12,202,878	-	-	100.00%
2062	0	18	\$12,202,878	\$1,360,598	\$1,219	\$1,219	-	-	\$634,243	\$11,476,523	\$11,476,523	\$11,476,523	-	-	100.00%
2063	0	17	\$11,476,523	\$1,317,396	\$1,180	\$1,180	-	-	\$595,465	\$10,754,592	\$10,754,592	\$10,754,592	-	-	100.00%



Table 3 – Switch to Optional Funding Policy in 2024 (Cont.)

				Employer Contributions											
Year End June 30	Closed Group Payroll	New Entrant Payroll	Total Payroll	Employee Contrib.	Gross Normal Cost	Interest on Net Normal Cost	Net Employer Normal Cost	Amortization of UAAL	Mid-Year Interest on Amortization	Premium Tax Allocation	Net Employer Amortization	Expenses	Optional Employer Contrib.	Statewide Employer Contrib.	Total Employer Contrib.
2024	\$1,254,461	\$81,427	\$1,335,888	\$116,081	\$410,880	\$7,998	\$302,797	\$607,997	\$16,496	\$274,216	\$350,277	\$1,217	\$654,291	\$6,921	\$661,212
2025	\$1,235,227	\$173,035	\$1,408,262	\$114,298	\$405,896	\$7,912	\$299,510	\$630,639	\$17,110	\$276,298	\$371,451	\$1,220	\$672,181	\$14,708	\$686,889
2026	\$1,218,911	\$263,959	\$1,482,870	\$112,784	\$401,885	\$7,844	\$296,945	\$647,318	\$17,563	\$289,857	\$375,024	\$1,195	\$673,164	\$22,437	\$695,601
2027	\$1,172,998	\$352,346	\$1,525,344	\$108,577	\$386,435	\$7,539	\$285,397	\$696,268	\$18,891	\$296,790	\$418,369	\$1,196	\$704,962	\$29,949	\$734,911
2028	\$1,114,341	\$486,562	\$1,600,903	\$103,122	\$365,928	\$7,130	\$269,936	\$696,268	\$18,891	\$303,896	\$411,263	\$1,197	\$682,396	\$41,358	\$723,754
2029	\$1,085,250	\$598,205	\$1,683,455	\$100,422	\$356,301	\$6,942	\$262,821	\$696,268	\$18,891	\$311,180	\$403,979	\$1,197	\$667,997	\$50,847	\$718,844
2030	\$1,067,587	\$700,333	\$1,767,920	\$98,782	\$350,802	\$6,838	\$258,858	\$696,268	\$18,891	\$321,044	\$394,115	\$1,196	\$654,169	\$59,528	\$713,697
2031	\$1,037,597	\$796,202	\$1,833,799	\$96,029	\$341,733	\$6,666	\$252,370	\$696,268	\$18,891	\$329,537	\$385,622	\$1,194	\$639,186	\$67,677	\$706,863
2032	\$987,444	\$915,559	\$1,903,003	\$91,392	\$324,619	\$6,328	\$239,555	\$696,268	\$18,891	\$339,738	\$375,421	\$1,192	\$616,168	\$77,823	\$693,991
2033	\$934,476	\$1,044,180	\$1,978,656	\$86,492	\$304,624	\$5,918	\$224,050	\$696,268	\$18,891	\$347,896	\$367,263	\$1,222	\$592,535	\$88,755	\$681,290
2034	\$894,606	\$1,176,290	\$2,070,896	\$82,786	\$289,511	\$5,609	\$212,334	\$696,268	\$18,891	\$357,299	\$357,860	\$1,219	\$571,413	\$99,985	\$671,398
2035	\$858,638	\$1,293,671	\$2,152,309	\$79,471	\$276,163	\$5,337	\$202,029	\$696,268	\$18,891	\$367,848	\$347,311	\$1,215	\$550,555	\$109,962	\$660,517
2036	\$807,792	\$1,427,887	\$2,235,679	\$74,771	\$258,216	\$4,977	\$188,422	\$696,268	\$18,891	\$378,109	\$337,050	\$1,210	\$526,682	\$121,370	\$648,052
2037	\$754,206	\$1,569,108	\$2,323,314	\$69,806	\$239,218	\$4,596	\$174,008	\$696,268	\$18,891	\$389,497	\$325,662	\$1,277	\$500,947	\$133,374	\$634,321
2038	\$689,542	\$1,710,603	\$2,400,145	\$63,852	\$214,712	\$4,093	\$154,953	\$696,268	\$18,891	\$409,618	\$305,541	\$1,272	\$461,766	\$145,401	\$607,167
2039	\$610,380	\$1,884,749	\$2,495,129	\$56,516	\$186,172	\$3,518	\$133,174	\$696,268	\$18,891	\$419,482	\$295,677	\$1,265	\$430,116	\$160,204	\$590,320
2040	\$550,483	\$2,049,899	\$2,600,382	\$50,962	\$165,701	\$3,113	\$117,852	\$673,627	\$18,277	\$429,593	\$262,311	\$1,297	\$381,460	\$174,241	\$555,701
2041	\$494,553	\$2,209,374	\$2,703,927	\$45,793	\$146,364	\$2,729	\$103,300	\$656,948	\$17,824	\$439,956	\$234,816	\$1,289	\$339,405	\$187,797	\$527,202
2042	\$444,939	\$2,377,302	\$2,822,241	\$41,178	\$129,288	\$2,391	\$90,501	\$607,997	\$16,496	\$460,891	\$163,602	\$1,321	\$255,424	\$202,071	\$457,495
2043	\$382,350	\$2,530,829	\$2,913,179	\$35,443	\$110,088	\$2,025	\$76,670	\$607,997	\$16,496	\$473,872	\$150,621	\$1,312	\$228,603	\$215,120	\$443,723
2044	\$299,082	\$2,729,858	\$3,028,940	\$27,707	\$84,488	\$1,541	\$58,322	\$607,997	\$16,496	\$492,638	\$131,855	\$1,301	\$191,478	\$232,038	\$423,516
2045	\$256,208	\$2,905,945	\$3,162,153	\$23,720	\$70,759	\$1,276	\$48,315	\$607,997	\$16,496	\$504,549	\$119,944	\$1,334	\$169,593	\$247,005	\$416,598
2046	\$223,211	\$3,062,800	\$3,286,011	\$20,677	\$60,876	\$1,091	\$41,290	\$607,997	\$16,496	\$528,449	\$96,044	\$1,367	\$138,701	\$260,338	\$399,039
2047	\$195,524	\$3,226,697	\$3,422,221	\$18,099	\$52,918	\$945	\$35,764	\$607,997	\$16,496	\$541,266	\$83,227	\$1,354	\$120,345	\$274,269	\$394,614
2048	\$152,925	\$3,363,766	\$3,516,691	\$14,192	\$41,059	\$729	\$27,596	\$607,997	\$16,496	\$554,402	\$70,091	\$1,388	\$99,075	\$285,920	\$384,995
2049	\$88,281	\$3,541,903	\$3,630,184	\$8,204	\$23,641	\$419	\$15,856	\$607,997	\$16,496	\$568,262	\$56,231	\$1,374	\$73,461	\$301,062	\$374,523
2050	\$46,932	\$3,724,560	\$3,771,492	\$4,356	\$12,529	\$222	\$8,395	\$308,040	\$8,358	\$316,406	-	\$1,358	\$9,753	\$316,588	\$326,341
2051	\$28,429	\$3,891,978	\$3,920,407	\$2,639	\$7,587	\$134	\$5,082	-	-	-	-	\$1,392	\$6,474	\$330,818	\$337,292
2052	\$17,219	\$4,042,132	\$4,059,351	\$1,598	\$4,597	\$81	\$3,080	-	-	-	-	\$1,374	\$4,454	\$343,581	\$348,035
2053	\$9,751	\$4,194,160	\$4,203,911	\$905	\$2,595	\$46	\$1,736	-	-	-	-	\$1,354	\$3,090	\$356,504	\$359,594
2054	\$5,270	\$4,349,567	\$4,354,837	\$490	\$1,397	\$25	\$932	-	-	-	-	\$1,388	\$2,320	\$369,713	\$372,033
2055	\$2,842	\$4,511,422	\$4,514,264	\$264	\$753	\$13	\$502	-	-	-	-	\$1,366	\$1,868	\$383,471	\$385,339
2056	\$1,541	\$4,669,962	\$4,671,503	\$143	\$409	\$7	\$273	-	-	-	-	\$1,342	\$1,615	\$396,947	\$398,562
2057	\$954	\$4,833,703	\$4,834,657	\$89	\$253	\$4	\$168	-	-	-	-	\$1,316	\$1,484	\$410,865	\$412,349
2058	\$287	\$5,005,024	\$5,005,311	\$27	\$75	\$1	\$49	-	-	-	-	\$1,288	\$1,337	\$425,427	\$426,764
2059	-	\$5,181,123	\$5,181,123	-	-		-	-	-	-	-	\$1,320	\$1,320	\$440,395	\$441,715
2060	-	\$5,361,324	\$5,361,324	-	-	-	-	-	-	-	-	\$1,289	\$1,289	\$455,713	\$457,002
2061	-	\$5,548,918	\$5,548,918	-	-		-	-	-	-	-	\$1,255	\$1,255	\$471,658	\$472,913
2062	-	\$5,743,467	\$5,743,467	-	-	-			-	-		\$1,219	\$1,219	\$488,195	\$489,414
2063	-	\$5,946,763	\$5,946,763	-	-	-	-	-	-	-	-	\$1,180	\$1,180	\$505,475	\$506,655
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Table 4 – Switch to Optional II Funding Policy in 2024

	Numbe	r (BOY)					Assets								
Year End June 30	Active	Non- Active	MVA (BOY)	Benefit Payments	Expenses	Employer Contrib.	Employee Contrib.	Premium Tax Allocation	Investment Income	MVA (EOY)	AVA (EOY)	Actuarial Accrued Liability	Unfunded Liability	Projected Unfunded Liability	AVA Funded Ratio
2022 2023	23 24	33 34	\$9,124,016 \$7,661,953	\$867,444 \$965,930	\$1,000 \$1,187	\$397,428 \$425,248	\$122,343 \$120,341	\$250,358 \$231,263	(1,363,748) \$416,245	\$7,661,953 \$7,887,933	\$8,446,223 \$8,488,068	\$17,167,484 \$17,555,533	\$8,721,261 \$9,067,465	\$8,840,195 \$9,015,252	49.20% 48.35%
2024	22	24	\$7,887,933	\$909,877	\$1,217	\$566,169	\$119,231	\$274,216	\$435,153	\$8,371,608	\$8,837,334	\$18,020,002	\$9,182,668	\$9,112,903	49.04%
2025	21	24	\$8,371,608	\$919,527	\$1,220	\$584,060	\$117,399	\$276,298	\$461,985	\$8,890,603	\$8,890,603	\$18,494,847	\$9,604,244	\$9,540,069	48.07%
2026	19	24	\$8,890,603	\$925,324	\$1,195	\$585,042	\$115,844	\$289,857	\$490,726	\$9,445,553	\$9,445,553	\$18,985,622	\$9,540,069	\$9,420,723	49.75%
2027	18	24	\$9,445,553	\$950,579	\$1,196	\$616,840	\$111,523	\$296,790	\$521,496	\$10,040,427	\$10,040,427	\$19,461,150	\$9,420,723	\$9,294,814	51.59%
2028	16	25	\$10,040,427	\$986,208	\$1,197	\$594,274	\$105,920	\$303,896	\$552,676	\$10,609,788	\$10,609,788	\$19,904,602	\$9,294,814	\$9,161,980	53.30%
2029	15	25	\$10,609,788	\$1,006,531	\$1,197	\$579,875	\$103,147	\$311,180	\$583,171	\$11,179,433	\$11,179,433	\$20,341,413	\$9,161,980	\$9,021,839	54.96%
2030	14	25	\$11,179,433	\$1,021,199	\$1,196	\$566,047	\$101,462	\$321,044	\$613,951	\$11,759,542	\$11,759,542	\$20,781,381	\$9,021,839	\$8,873,991	56.59%
2031	13	25	\$11,759,542	\$1,045,198	\$1,194	\$551,064	\$98,634	\$329,537	\$644,953	\$12,337,338	\$12,337,338	\$21,211,329	\$8,873,991	\$8,718,010	58.16%
2032	12	25	\$12,337,338	\$1,083,677	\$1,192	\$528,046	\$93,872	\$339,738	\$675,211	\$12,889,336	\$12,889,336	\$21,607,346	\$8,718,010	\$8,553,451	59.65%
2033	11	26	\$12,889,336	\$1,116,723	\$1,222	\$504,413	\$88,839	\$347,896	\$704,117	\$13,416,656	\$13,416,656	\$21,970,107	\$8,553,451	\$8,379,841	61.07%
2034	10	26	\$13,416,656	\$1,148,152	\$1,219	\$483,291	\$85,032	\$357,299	\$731,845	\$13,924,752	\$13,924,752	\$22,304,593	\$8,379,841	\$8,196,683	62.43%
2035	9	26	\$13,924,752	\$1,171,718	\$1,215	\$462,433	\$81,627	\$367,848	\$758,779	\$14,422,506	\$14,422,506	\$22,619,189	\$8,196,683	\$8,003,451	63.76%
2036	8	26	\$14,422,506	\$1,210,949	\$1,210	\$438,560	\$76,800	\$378,109	\$784,591	\$14,888,407	\$14,888,407	\$22,891,858	\$8,003,451	\$7,799,592	65.04%
2037	8	27	\$14,888,407	\$1,251,021	\$1,277	\$412,825	\$71,700	\$389,497	\$808,599	\$15,318,730	\$15,318,730	\$23,118,322	\$7,799,592	\$7,584,520	66.26%
2038	7	27	\$15,318,730	\$1,294,156	\$1,272	\$373,644	\$65,584	\$409,618	\$830,414	\$15,702,562	\$15,702,562	\$23,287,082	\$7,584,520	\$7,357,619	67.43%
2039	6	27	\$15,702,562	\$1,355,450	\$1,265	\$341,994	\$58,049	\$419,482	\$849,066	\$16,014,438	\$16,014,438	\$23,372,057	\$7,357,619	\$7,142,124	68.52%
2040	5	28	\$16,014,438	\$1,398,012	\$1,297	\$293,338	\$52,345	\$429,593	\$863,863	\$16,254,268	\$16,254,268	\$23,396,392	\$7,142,124	\$6,932,373	69.47%
2041	4	28	\$16,254,268	\$1,440,602	\$1,289	\$251,284	\$47,035	\$439,956	\$874,894	\$16,425,546	\$16,425,546	\$23,357,919	\$6,932,373	\$6,762,730	70.32%
2042	4	28	\$16,425,546	\$1,474,365	\$1,321	\$167,302	\$42,295	\$460,891	\$881,558	\$16,501,906	\$16,501,906	\$23,264,636	\$6,762,730	\$6,583,757	70.93%
2043	3	28	\$16,501,906	\$1,528,537	\$1,312	\$140,481	\$36,405	\$473,872	\$883,753	\$16,506,568	\$16,506,568	\$23,090,325	\$6,583,757	\$6,394,939	71.49%
2044	2	28	\$16,506,568	\$1,585,216	\$1,301	\$103,356	\$28,459	\$492,638	\$881,759	\$16,426,263	\$16,426,263	\$22,821,202	\$6,394,939	\$6,195,737	71.98%
2045	2	28	\$16,426,263	\$1,610,393	\$1,334	\$81,471	\$24,364	\$504,549	\$876,276	\$16,301,196	\$16,301,196	\$22,496,933	\$6,195,737	\$5,985,579	72.46%
2046	2	28	\$16,301,196	\$1,631,984	\$1,367	\$50,579	\$21,238	\$528,449	\$868,536	\$16,136,647	\$16,136,647	\$22,122,226	\$5,985,579	\$5,758,834	72.94%
2047	1	28	\$16,136,647	\$1,642,744	\$1,354	\$37,118	\$18,590	\$541,266	\$859,105	\$15,948,628	\$15,948,628	\$21,707,462	\$5,758,834	\$5,506,126	73.47%
2048	1	28	\$15,948,628	\$1,672,478	\$1,388	\$28,984	\$14,577	\$554,402	\$847,983	\$15,720,708	\$15,720,708	\$21,226,834	\$5,506,126	\$5,225,282	74.06%
2049	1	27	\$15,720,708	\$1,711,648	\$1,374	\$17,230	\$8,427	\$568,262	\$834,276	\$15,435,881	\$15,435,881	\$20,661,163	\$5,225,282	\$4,914,400	74.71%
2050	0	27	\$15,435,881	\$1,723,855	\$1,358	\$9,753	\$4,474	\$582,469	\$818,355	\$15,125,719	\$15,125,719	\$20,040,119	\$4,914,400	\$4,571,463	75.48%
2051	0	27	\$15,125,719	\$1,716,841	\$1,392	\$6,474	\$2,711	\$597,031	\$801,743	\$14,815,445	\$14,815,445	\$19,386,908	\$4,571,463	\$4,194,334	76.42%
2052	0	26	\$14,815,445	\$1,701,766	\$1,374	\$4,454	\$1,641	\$611,957	\$785,409	\$14,515,766	\$14,515,766	\$18,710,100	\$4,194,334	\$3,780,747	77.58%
2053	0	25	\$14,515,766	\$1,681,398	\$1,354	\$3,090	\$930	\$627,256	\$769,839	\$14,234,129	\$14,234,129	\$18,014,876	\$3,780,747	\$3,328,307	79.01%
2054	0	25	\$14,234,129	\$1,656,308	\$1,388	\$2,320	\$503	\$642,937	\$755,421	\$13,977,614	\$13,977,614	\$17,305,921	\$3,328,307	\$2,834,474	80.77%
2055	0	24	\$13,977,614	\$1,627,276	\$1,366	\$1,868	\$271	\$659,010	\$742,519	\$13,752,640	\$13,752,640	\$16,587,114	\$2,834,474	\$2,296,558	82.91%
2056	0	23	\$13,752,640	\$1,595,146	\$1,342	\$1,615	\$147	\$675,485	\$731,454	\$13,564,853	\$13,564,853	\$15,861,411	\$2,296,558	\$1,711,712	85.52%
2057	0	22	\$13,564,853	\$1,560,344	\$1,316	\$1,484	\$91	\$692,372	\$722,524	\$13,419,664	\$13,419,664	\$15,131,376	\$1,711,712	\$1,076,921	88.69%
2058	0	21	\$13,419,664	\$1,523,745	\$1,288	\$1,337	\$28	\$709,681	\$715,996	\$13,321,673	\$13,321,673	\$14,398,594	\$1,076,921	\$388,993	92.52%
2059	0	21	\$13,321,673	\$1,485,083	\$1,320	\$1,320	-	\$727,423	\$712,135	\$13,276,148	\$13,276,148	\$13,665,141	\$388,993	-	97.15%
2060	0	20	\$13,276,148	\$1,444,722	\$1,289	\$1,289	-	\$399,547	\$701,831	\$12,932,804	\$12,932,804	\$12,932,804	-	-	100.00%
2061	0	19	\$12,932,804	\$1,403,160	\$1,255	\$1,255	-	-	\$673,234	\$12,202,878	\$12,202,878	\$12,202,878	-	-	100.00%
2062	0	18	\$12,202,878	\$1,360,598	\$1,219	\$1,219	-	-	\$634,243	\$11,476,523	\$11,476,523	\$11,476,523	-	-	100.00%
2063	0	17	\$11,476,523	\$1,317,396	\$1,180	\$1,180	-	-	\$595,465	\$10,754,592	\$10,754,592	\$10,754,592	-	-	100.00%



Table 4 – Switch to Optional II Funding Policy in 2024 (Cont.)

				Employer Contributions											
Year End June 30	Closed Group Payroll	New Entrant Payroll	Total Payroll	Employee Contrib.	Gross Normal Cost	Interest on Net Normal Cost	Net Employer Normal Cost	Amortization of UAAL	Mid-Year Interest on Amortization	Premium Tax Allocation	Net Employer Amortization	Expenses	Optional Employer Contrib.	Statewide Employer Contrib.	Total Employer Contrib.
2024	\$1,254,461	\$81,427	\$1,335,888	\$116,081	\$410,880	\$7,998	\$302,797	\$522,203	\$14,168	\$274,216	\$262,155	\$1,217	\$566,169	\$6,921	\$573,090
2025	\$1,235,227	\$173,035	\$1,408,262	\$114,298	\$405,896	\$7,912	\$299,510	\$544,845	\$14,783	\$276,298	\$283,330	\$1,220	\$584,060	\$14,708	\$598,768
2026	\$1,218,911	\$263,959	\$1,482,870	\$112,784	\$401,885	\$7,844	\$296,945	\$561,524	\$15,235	\$289,857	\$286,902	\$1,195	\$585,042	\$22,437	\$607,479
2027	\$1,172,998	\$352,346	\$1,525,344	\$108,577	\$386,435	\$7,539	\$285,397	\$610,474	\$16,563	\$296,790	\$330,247	\$1,196	\$616,840	\$29,949	\$646,789
2028	\$1,114,341	\$486,562	\$1,600,903	\$103,122	\$365,928	\$7,130	\$269,936	\$610,474	\$16,563	\$303,896	\$323,141	\$1,197	\$594,274	\$41,358	\$635,632
2029	\$1,085,250	\$598,205	\$1,683,455	\$100,422	\$356,301	\$6,942	\$262,821	\$610,474	\$16,563	\$311,180	\$315,857	\$1,197	\$579,875	\$50,847	\$630,722
2030	\$1,067,587	\$700,333	\$1,767,920	\$98,782	\$350,802	\$6,838	\$258,858	\$610,474	\$16,563	\$321,044	\$305,993	\$1,196	\$566,047	\$59,528	\$625,575
2031	\$1,037,597	\$796,202	\$1,833,799	\$96,029	\$341,733	\$6,666	\$252,370	\$610,474	\$16,563	\$329,537	\$297,500	\$1,194	\$551,064	\$67,677	\$618,741
2032	\$987,444	\$915,559	\$1,903,003	\$91,392	\$324,619	\$6,328	\$239,555	\$610,474	\$16,563	\$339,738	\$287,299	\$1,192	\$528,046	\$77,823	\$605,869
2033	\$934,476	\$1,044,180	\$1,978,656	\$86,492	\$304,624	\$5,918	\$224,050	\$610,474	\$16,563	\$347,896	\$279,141	\$1,222	\$504,413	\$88,755	\$593,168
2034	\$894,606	\$1,176,290	\$2,070,896	\$82,786	\$289,511	\$5,609	\$212,334	\$610,474	\$16,563	\$357,299	\$269,738	\$1,219	\$483,291	\$99,985	\$583,276
2035	\$858,638	\$1,293,671	\$2,152,309	\$79,471	\$276,163	\$5,337	\$202,029	\$610,474	\$16,563	\$367,848	\$259,189	\$1,215	\$462,433	\$109,962	\$572,395
2036	\$807,792	\$1,427,887	\$2,235,679	\$74,771	\$258,216	\$4,977	\$188,422	\$610,474	\$16,563	\$378,109	\$248,928	\$1,210	\$438,560	\$121,370	\$559,930
2037	\$754,206	\$1,569,108	\$2,323,314	\$69,806	\$239,218	\$4,596	\$174,008	\$610,474	\$16,563	\$389,497	\$237,540	\$1,277	\$412,825	\$133,374	\$546,199
2038	\$689,542	\$1,710,603	\$2,400,145	\$63,852	\$214,712	\$4,093	\$154,953	\$610,474	\$16,563	\$409,618	\$217,419	\$1,272	\$373,644	\$145,401	\$519,045
2039	\$610,380	\$1,884,749	\$2,495,129	\$56,516	\$186,172	\$3,518	\$133,174	\$610,474	\$16,563	\$419,482	\$207,555	\$1,265	\$341,994	\$160,204	\$502,198
2040	\$550,483	\$2,049,899	\$2,600,382	\$50,962	\$165,701	\$3,113	\$117,852	\$587,833	\$15,949	\$429,593	\$174,189	\$1,297	\$293,338	\$174,241	\$467,579
2041	\$494,553	\$2,209,374	\$2,703,927	\$45,793	\$146,364	\$2,729	\$103,300	\$571,154	\$15,497	\$439,956	\$146,695	\$1,289	\$251,284	\$187,797	\$439,081
2042	\$444,939	\$2,377,302	\$2,822,241	\$41,178	\$129,288	\$2,391	\$90,501	\$522,203	\$14,168	\$460,891	\$75,480	\$1,321	\$167,302	\$202,071	\$369,373
2043	\$382,350	\$2,530,829	\$2,913,179	\$35,443	\$110,088	\$2,025	\$76,670	\$522,203	\$14,168	\$473,872	\$62,499	\$1,312	\$140,481	\$215,120	\$355,601
2044	\$299,082	\$2,729,858	\$3,028,940	\$27,707	\$84,488	\$1,541	\$58,322	\$522,203	\$14,168	\$492,638	\$43,733	\$1,301	\$103,356	\$232,038	\$335,394
2045	\$256,208	\$2,905,945	\$3,162,153	\$23,720	\$70,759	\$1,276	\$48,315	\$522,203	\$14,168	\$504,549	\$31,822	\$1,334	\$81,471	\$247,005	\$328,476
2046	\$223,211	\$3,062,800	\$3,286,011	\$20,677	\$60,876	\$1,091	\$41,290	\$522,203	\$14,168	\$528,449	\$7,922	\$1,367	\$50,579	\$260,338	\$310,917
2047	\$195,524	\$3,226,697	\$3,422,221	\$18,099	\$52,918	\$945	\$35,764	\$522,203	\$14,168	\$541,266	-	\$1,354	\$37,118	\$274,269	\$311,387
2048	\$152,925	\$3,363,766	\$3,516,691	\$14,192	\$41,059	\$729	\$27,596	\$522,203	\$14,168	\$554,402	-	\$1,388	\$28,984	\$285,920	\$314,904
2049	\$88,281	\$3,541,903	\$3,630,184	\$8,204	\$23,641	\$419	\$15,856	\$522,203	\$14,168	\$568,262	-	\$1,374	\$17,230	\$301,062	\$318,292
2050	\$46,932	\$3,724,560	\$3,771,492	\$4,356	\$12,529	\$222	\$8,395	\$522,203	\$14,168	\$582,469	-	\$1,358	\$9,753	\$316,588	\$326,341
2051	\$28,429	\$3,891,978	\$3,920,407	\$2,639	\$7,587	\$134	\$5,082	\$522,203	\$14,168	\$597,031	-	\$1,392	\$6,474	\$330,818	\$337,292
2052	\$17,219	\$4,042,132	\$4,059,351	\$1,598	\$4,597	\$81	\$3,080	\$522,203	\$14,168	\$611,957	-	\$1,374	\$4,454	\$343,581	\$348,035
2053	\$9,751	\$4,194,160	\$4,203,911	\$905	\$2,595	\$46	\$1,736	\$522,203	\$14,168	\$627,256	-	\$1,354	\$3,090	\$356,504	\$359,594
2054	\$5,270	\$4,349,567	\$4,354,837	\$490	\$1,397	\$25	\$932	\$522,203	\$14,168	\$642,937	-	\$1,388	\$2,320	\$369,713	\$372,033
2055	\$2,842	\$4,511,422	\$4,514,264	\$264	\$753	\$13	\$502	\$522,203	\$14,168	\$659,010	-	\$1,366	\$1,868	\$383,471	\$385,339
2056	\$1,541	\$4,669,962	\$4,671,503	\$143	\$409	\$7	\$273	\$522,203	\$14,168	\$675,485	-	\$1,342	\$1,615	\$396,947	\$398,562
2057	\$954	\$4,833,703	\$4,834,657	\$89	\$253	\$4	\$168	\$522,203	\$14,168	\$692,372	-	\$1,316	\$1,484	\$410,865	\$412,349
2058	\$287	\$5,005,024	\$5,005,311	\$27	\$75	\$1	\$49	\$522,203	\$14,168	\$709,681	-	\$1,288	\$1,337	\$425,427	\$426,764
2059	-	\$5,181,123	\$5,181,123	-	-	-	-	\$522,203	\$14,168	\$727,423	-	\$1,320	\$1,320	\$440,395	\$441,715
2060	-	\$5,361,324	\$5,361,324	-	-	-	-	\$522,203	\$14,168	\$399,547	\$136,824	\$1,289	\$1,289	\$455,713	\$457,002
2061	-	\$5,548,918	\$5,548,918	-	-	-	-	-	-	-	-	\$1,255	\$1,255	\$471,658	\$472,913
2062	-	\$5,743,467	\$5,743,467	-	-	-	-	-	-	-	-	\$1,219	\$1,219	\$488,195	\$489,414
2063	-	\$5,946,763	\$5,946,763	-	-	-	-	-	-	-	-	\$1,180	\$1,180	\$505,475	\$506,655



Table 5 – Switch to Optional Funding Policy in 2036

	Numbe	r (BOY)					Assets								
Year End June 30	Active	Non- Active	MVA (BOY)	Benefit Payments	Expenses	Employer Contrib.	Employee Contrib.	Premium Tax Allocation	Investment Income	MVA (EOY)	AVA (EOY)	Actuarial Accrued Liability	Unfunded Liability	Projected Unfunded Liability	AVA Funded Ratio
2022	23	33 34	\$9,124,016 \$7,661,053	\$867,444	\$1,000 \$1,107	\$397,428 \$425,248	\$122,343 \$120,341	\$250,358	(1,363,748)	\$7,661,953	\$8,446,223	\$17,167,484 \$17,555,533	\$8,721,261	\$8,840,195	49.20%
2023 2024	24 24	34 24	\$7,661,953 \$7,887,933	\$965,930 \$910,254	\$1,187 \$1,217	\$425,248 \$455,015	\$120,341 \$126,971	\$231,263 \$274,216	\$416,245 \$432,337	\$7,887,933 \$8,265,001	\$8,488,068 \$8,730,727	\$17,555,533 \$18,047,516	\$9,067,465 \$9,316,789	\$9,149,373 \$9,396,721	48.35% 48.38%
2024	24	24	\$7,887,933	\$910,254 \$920,973	\$1,217 \$1,247	\$455,015 \$486,866	\$126,971 \$133,848	\$274,216 \$276,298	\$432,337 \$453,891	\$8,265,001	\$8,730,727 \$8,693,684	\$18,047,516 \$18,581,745	\$9,316,789	\$9,396,721	48.38% 46.79%
2025	24	24	\$8,265,001	\$920,973	\$1,247 \$1,278	\$520,947	\$133,848	\$276,298	\$478,747	\$9,194,334	\$9,194,334	\$19,164,622	\$9,970,288	\$9,970,288	47.98%
2026	24	24	\$9,194,334	\$956,213	\$1,276	\$520,947 \$557,413	\$145,017	\$299,037	\$506,820	\$9,742,851	\$9,742,851	\$19,765,332	\$10,022,481	\$10,022,461	49.29%
2027	24	25													
2028	24	25 25	\$9,742,851 \$10,336,502	\$994,861 \$1,018,702	\$1,371 \$1,405	\$596,432 \$638,182	\$152,172 \$160,010	\$303,896 \$311,180	\$537,383 \$570,930	\$10,336,502 \$10,996,697	\$10,336,502 \$10,996,697	\$20,383,955 \$21,040,591	\$10,047,453 \$10,043,894	\$10,043,894 \$10,005,601	50.71% 52.26%
2029	24														53.98%
		25 25	\$10,996,697	\$1,037,650	\$1,440 \$1,470	\$682,855	\$168,033	\$321,044	\$608,423	\$11,737,962	\$11,737,962	\$21,743,563	\$10,005,601	\$9,924,821	
2031	24		\$11,737,962	\$1,066,454	\$1,476	\$730,655	\$174,317	\$329,537	\$650,108	\$12,554,649	\$12,554,649	\$22,479,470	\$9,924,821	\$9,793,313	55.85%
2032	24	25	\$12,554,649	\$1,110,390	\$1,513	\$781,801	\$180,897	\$339,738	\$695,675	\$13,440,857	\$13,440,857	\$23,234,170	\$9,793,313	\$9,606,328	57.85%
2033	24	26	\$13,440,857	\$1,149,105	\$1,582	\$836,527	\$188,089	\$347,896	\$745,266	\$14,407,948	\$14,407,948	\$24,014,276	\$9,606,328	\$9,360,424	60.00%
2034	24	26	\$14,407,948	\$1,186,992	\$1,622	\$895,084	\$196,839	\$357,299	\$799,508	\$15,468,064	\$15,468,064	\$24,828,488	\$9,360,424	\$9,044,970	62.30%
2035	24	26	\$15,468,064	\$1,217,817	\$1,663	\$957,740	\$204,590	\$367,848	\$859,173	\$16,637,935	\$16,637,935	\$25,682,905	\$9,044,970	\$8,641,333	64.78%
2036	22	27	\$16,637,935	\$1,264,658	\$1,670	\$1,003,591	\$199,564	\$378,109	\$923,631	\$17,876,502	\$17,876,502	\$26,517,835	\$8,641,333	\$8,255,708	67.41%
2037	21	27	\$17,876,502	\$1,311,696	\$1,677	\$938,320	\$193,702	\$389,497	\$988,855	\$19,073,503	\$19,073,503	\$27,329,211	\$8,255,708	\$7,848,875	69.79%
2038	19	27	\$19,073,503	\$1,360,727	\$1,647	\$901,274	\$187,549	\$409,618	\$1,052,734	\$20,262,304	\$20,262,304	\$28,111,179	\$7,848,875	\$7,419,666	72.08%
2039	18	28	\$20,262,304	\$1,427,908	\$1,688	\$877,492	\$182,406	\$419,482	\$1,115,777	\$21,427,865	\$21,427,865	\$28,847,531	\$7,419,666	\$6,966,850	74.28%
2040	16	28	\$21,427,865	\$1,476,832	\$1,655	\$841,723	\$172,050	\$429,593	\$1,177,580	\$22,570,324	\$22,570,324	\$29,537,174	\$6,966,850	\$6,489,129	76.41%
2041	15	29	\$22,570,324	\$1,525,607	\$1,696	\$815,803	\$165,686	\$439,956	\$1,238,496	\$23,702,962	\$23,702,962	\$30,192,091	\$6,489,129	\$5,985,133	78.51%
2042	14	29	\$23,702,962	\$1,564,365	\$1,699	\$786,270	\$161,972	\$460,891	\$1,299,405	\$24,845,436	\$24,845,436	\$30,830,569	\$5,985,133	\$5,453,418	80.59%
2043	13	29	\$24,845,436	\$1,623,208	\$1,701	\$762,145	\$156,702	\$473,872	\$1,360,199	\$25,973,445	\$25,973,445	\$31,426,863	\$5,453,418	\$4,892,458	82.65%
2044	12	30	\$25,973,445	\$1,690,930	\$1,744	\$725,873	\$149,411	\$492,638	\$1,419,728	\$27,068,421	\$27,068,421	\$31,960,879	\$4,892,458	\$4,300,644	84.69%
2045	11	30	\$27,068,421	\$1,738,793	\$1,745	\$692,853	\$141,966	\$504,549	\$1,477,879	\$28,145,130	\$28,145,130	\$32,445,774	\$4,300,644	\$3,676,281	86.75%
2046	10	30	\$28,145,130	\$1,787,087	\$1,745	\$649,165	\$134,934	\$528,449	\$1,535,060	\$29,203,906	\$29,203,906	\$32,880,187	\$3,676,281	\$3,017,578	88.82%
2047	9	30	\$29,203,906	\$1,827,009	\$1,744	\$621,357	\$129,782	\$541,266	\$1,591,663	\$30,259,221	\$30,259,221	\$33,276,799	\$3,017,578	\$2,322,648	90.93%
2048	8	29	\$30,259,221	\$1,897,515	\$1,696	\$583,761	\$120,814	\$554,402	\$1,646,886	\$31,265,873	\$31,265,873	\$33,588,521	\$2,322,648	\$1,589,495	93.08%
2049	8	31	\$31,265,873	\$1,986,813	\$1,832	\$546,261	\$112,042	\$568,262	\$1,698,946	\$32,202,739	\$32,202,739	\$33,792,234	\$1,589,495	\$816,018	95.30%
2050	7	31	\$32,202,739	\$2,052,832	\$1,830	\$504,635	\$103,046	\$582,469	\$1,747,695	\$33,085,922	\$33,085,922	\$33,901,940	\$816,018	-	97.59%
2051	6	30	\$33,085,922	\$2,102,391	\$1,777	\$455,768	\$91,202	\$597,031	\$1,793,675	\$33,919,430	\$33,919,430	\$33,919,430	-	-	100.00%
2052	5	31	\$33,919,430	\$2,154,163	\$1,821	\$188,687	\$81,715	-	\$1,814,409	\$33,848,257	\$33,848,257	\$33,848,257	-	-	100.00%
2053	4	30	\$33,848,257	\$2,209,613	\$1,763	\$164,679	\$73,128	-	\$1,808,107	\$33,682,795	\$33,682,795	\$33,682,795	-	-	100.00%
2054	4	30	\$33,682,795	\$2,264,088	\$1,807	\$143,176	\$65,270	-	\$1,796,732	\$33,422,078	\$33,422,078	\$33,422,078	-	-	100.00%
2055	3	30	\$33,422,078	\$2,318,933	\$1,798	\$121,425	\$56,407	-	\$1,780,073	\$33,059,252	\$33,059,252	\$33,059,252	-	-	100.00%
2056	2	29	\$33,059,252	\$2,369,238	\$1,731	\$91,926	\$43,890	-	\$1,757,615	\$32,581,714	\$32,581,714	\$32,581,714	-	-	100.00%
2057	2	29	\$32,581,714	\$2,404,245	\$1,774	\$75,806	\$37,251	-	\$1,729,782	\$32,018,534	\$32,018,534	\$32,018,534	-	-	100.00%
2058	2	28	\$32,018,534	\$2,432,357	\$1,760	\$64,734	\$32,351	-	\$1,697,611	\$31,379,113	\$31,379,113	\$31,379,113	-	-	100.00%
2059	1	28	\$31,379,113	\$2,454,642	\$1,744	\$55,905	\$28,146	-	\$1,661,485	\$30,668,263	\$30,668,263	\$30,668,263	-	-	100.00%
2060	1	28	\$30,668,263	\$2,469,910	\$1,788	\$43,811	\$22,221	-	\$1,621,484	\$29,884,081	\$29,884,081	\$29,884,081	-	-	100.00%
2061	1	26	\$29,884,081	\$2,479,388	\$1,706	\$25,854	\$12,879	-	\$1,577,358	\$29,019,078	\$29,019,078	\$29,019,078	-	-	100.00%
2062	0	26	\$29,019,078	\$2,482,737	\$1,684	\$14,408	\$6,814	-	\$1,529,218	\$28,085,097	\$28,085,097	\$28,085,097	-	-	100.00%
2063	0	26	\$28,085,097	\$2,480,698	\$1,726	\$9,402	\$4,112	-	\$1,477,694	\$27,093,881	\$27,093,881	\$27,093,881	-	-	100.00%



Table 5 – Switch to Optional Funding Policy in 2036 (Cont.)

				Employer Contributions										Contribution Comparison					
Year End June 30	Closed Group Payroll	New Entrant Payroll	Total Payroll	Employee Contrib.	Gross Normal Cost	Interest on Net Normal Cost	Net Employer Normal Cost	Amortization of UAAL	Mid-Year Interest on Amortization	Premium Tax Allocation	Net Employer Amortization	Expenses	Opt. Employer Contrib.	Statewide Employer Contrib.	Total Contrib. if Switch	Alt. Employer Contrib.	Final Employer Contrib.⁴		
2024	\$1,335,888	-	\$1,335,888	\$123,617	\$437,327	\$8,512	\$322,222	\$607,997	\$16,496	\$274,216	\$350,277	\$1,217	\$673,716	-	\$673,716	\$455,015	\$455,015		
2025	\$1,408,262	-	\$1,408,262	\$130,312	\$462,158	\$9,004	\$340,850	\$640,507	\$17,378	\$276,298	\$381,587	\$1,247	\$723,684	-	\$723,684	\$486,866	\$486,866		
2026	\$1,482,870	-	\$1,482,870	\$137,213	\$487,804	\$9,512	\$360,103	\$670,465	\$18,191	\$289,857	\$398,799	\$1,278	\$760,180	-	\$760,180	\$520,947	\$520,947		
2027	\$1,525,344	-	\$1,525,344	\$141,186	\$501,244	\$9,769	\$369,827	\$726,112	\$19,701	\$296,790	\$449,023	\$1,310	\$820,160	-	\$820,160	\$557,413	\$557,413		
2028	\$1,600,903	-	\$1,600,903	\$148,152	\$524,534	\$10,212	\$386,594	\$746,205	\$20,246	\$303,896	\$462,555	\$1,371	\$850,520	-	\$850,520	\$596,432	\$596,432		
2029	\$1,683,455	-	\$1,683,455	\$155,783	\$551,526	\$10,737	\$406,480	\$766,105	\$20,786	\$311,180	\$475,711	\$1,405	\$883,596	-	\$883,596	\$638,182	\$638,182		
2030	\$1,767,920	-	\$1,767,920	\$163,594	\$579,662	\$11,289	\$427,357	\$785,827	\$21,321	\$321,044	\$486,104	\$1,440	\$914,901	-	\$914,901	\$682,855	\$682,855		
2031	\$1,833,799	-	\$1,833,799	\$169,712	\$602,275	\$11,736	\$444,299	\$805,002	\$21,841	\$329,537	\$497,306	\$1,476	\$943,081	-	\$943,081	\$730,655	\$730,655		
2032	\$1,903,003	-	\$1,903,003	\$176,119	\$624,499	\$12,165	\$460,545	\$823,097	\$22,332	\$339,738	\$505,691	\$1,513	\$967,749	-	\$967,749	\$781,801	\$781,801		
2033	\$1,978,656	-	\$1,978,656	\$183,121	\$646,928	\$12,584	\$476,391	\$839,469	\$22,776	\$347,896	\$514,349	\$1,582	\$992,322	-	\$992,322	\$836,527	\$836,527		
2034	\$2,070,896	-	\$2,070,896	\$191,639	\$675,473	\$13,127	\$496,961	\$853,690	\$23,162	\$357,299	\$519,553	\$1,622	\$1,018,136	-	\$1,018,136	\$895,084	\$895,084		
2035	\$2,152,309		\$2,152,309	\$199,186	\$701,146	\$13,619	\$515,579	\$865,375	\$23,479	\$367,848	\$521,006	\$1,663	\$1,038,248	-	\$1,038,248	\$957,740	\$957,740		
2036	\$2,099,407	\$136,272	\$2,235,679	\$194,292	\$683,735	\$13,280	\$502,723	\$854,133	\$23,174	\$378,109	\$499,198	\$1,670	\$1,003,591	\$11,583	\$1,015,174	\$1,024,782	\$1,015,174		
2037	\$2,037,845	\$285,469	\$2,323,314	\$188,585	\$663,678	\$12,890	\$487,983	\$816,017	\$22,140	\$389,497	\$448,660	\$1,677	\$938,320	\$24,265	\$962,585	\$1,096,517	\$962,585		
2038	\$1,972,906	\$427,239	\$2,400,145	\$182,595	\$641,239	\$12,444	\$471,088	\$816,017	\$22,140	\$409,618	\$428,539	\$1,647	\$901,274	\$36,315	\$937,589	\$1,173,273	\$937,589		
2039	\$1,918,768	\$576,361	\$2,495,129	\$177,588	\$622,642	\$12,075	\$457,129	\$816,017	\$22,140	\$419,482	\$418,675	\$1,688	\$877,492	\$48,991	\$926,483	\$1,255,402	\$926,483		
2040	\$1,810,049	\$790,333	\$2,600,382	\$167,505	\$587,611	\$11,398	\$431,504	\$816,017	\$22,140	\$429,593	\$408,564	\$1,655	\$841,723	\$67,178	\$908,901	\$1,343,280	\$908,901		
2041	\$1,743,104	\$960,823	\$2,703,927	\$161,309	\$566,229	\$10,986	\$415,906	\$816,017	\$22,140	\$439,956	\$398,201	\$1,696	\$815,803	\$81,670	\$897,473	\$1,437,310	\$897,473		
2042	\$1,704,256	\$1,117,985	\$2,822,241	\$157,693	\$554,239	\$10,759	\$407,305	\$816,017	\$22,140	\$460,891	\$377,266	\$1,699	\$786,270	\$95,029	\$881,299	\$1,537,922	\$881,299		
2043	\$1,648,330	\$1,264,849	\$2,913,179	\$152,563	\$538,257	\$10,465	\$396,159	\$816,017	\$22,140	\$473,872	\$364,285	\$1,701	\$762,145	\$107,512	\$869,657	\$1,645,577	\$869,657		
2044	\$1,571,678	\$1,457,262	\$3,028,940	\$145,464	\$514,073	\$10,001	\$378,610	\$816,017	\$22,140	\$492,638	\$345,519	\$1,744	\$725,873	\$123,867	\$849,740	\$1,760,767	\$849,740		
2045	\$1,493,416	\$1,668,737	\$3,162,153	\$138,216	\$486,272	\$9,443	\$357,499	\$816,018	\$22,140	\$504,549	\$333,609	\$1,745	\$692,853	\$141,843	\$834,696	\$1,884,021	\$834,696		
2046	\$1,419,523	\$1,866,488	\$3,286,011	\$131,370	\$460,161	\$8,921	\$337,712	\$816,017	\$22,140	\$528,449	\$309,708	\$1,745	\$649,165	\$158,651	\$807,816	\$792,756	\$807,816		
2047	\$1,365,254	\$2,056,967	\$3,422,221	\$126,354	\$440,551	\$8,525	\$322,722	\$816,017	\$22,140	\$541,266	\$296,891	\$1,744	\$621,357	\$174,842	\$796,199	\$825,986	\$796,199		
2048	\$1,270,645	\$2,246,046	\$3,516,691	\$117,623	\$408,053	\$7,880	\$298,310	\$816,017	\$22,140	\$554,402	\$283,755	\$1,696	\$583,761	\$190,914	\$774,675	\$849,402	\$774,675		
2049	\$1,178,449	\$2,451,735	\$3,630,184	\$109,082	\$376,363	\$7,252	\$274,533	\$816,018	\$22,140	\$568,262	\$269,896	\$1,832	\$546,261	\$208,397	\$754,658	\$878,648	\$754,658		
2050	\$1,083,519	\$2,687,973	\$3,771,492	\$100,324	\$340,912	\$6,528	\$247,116	\$816,018	\$22,140	\$582,469	\$255,689	\$1,830	\$504,635	\$228,478	\$733,113	\$913,478	\$733,113		
2051	\$959,044	\$2,961,363	\$3,920,407	\$88,793	\$296,034	\$5,623	\$212,864	\$816,018	\$22,140	\$597,031	\$241,127	\$1,777	\$455,768	\$251,716	\$707,484	\$949,124	\$707,484		
2052	\$859,337	\$3,200,014	\$4,059,351	\$79,556	\$261,486	\$4,936	\$186,866		-	-	-	\$1,821	\$188,687	\$272,001	\$460,688	\$982,179	\$460,688		
2053	\$768,903	\$3,435,008	\$4,203,911	\$71,196	\$229,808	\$4,303	\$162,915		-		-	\$1,763	\$164,679	\$291,976	\$456,655	\$1,016,754	\$456,655		
2054	\$686,560	\$3,668,277	\$4,354,837	\$63,546	\$201,181	\$3,734	\$141,369		-	-	-	\$1,807	\$143,176	\$311,804	\$454,980	\$1,052,713	\$454,980		
2055	\$592,490	\$3,921,774	\$4,514,264	\$54,917	\$171,384	\$3,160	\$119,627	-	-	-	-	\$1,798	\$121,425	\$333,351	\$454,776	\$1,090,784	\$454,776		
2056	\$461,271	\$4,210,232	\$4,671,503	\$42,731	\$130,543	\$2,383	\$90,195		-		-	\$1,731	\$91,926	\$357,870	\$449,796	\$1,128,532	\$449,796		
2057	\$391,720	\$4,442,937	\$4,834,657	\$36,267	\$108,344	\$1,956	\$74,033	-			-	\$1,774	\$75,806	\$377,650	\$453,456	\$1,167,710	\$453,456		
2058	\$339,999	\$4,665,312	\$5,005,311	\$31,496	\$92,807	\$1,663	\$62,974	-			-	\$1,760	\$64,734	\$396,552	\$461,286	\$1,208,559	\$461,286		
2059	\$296,017	\$4,885,106	\$5,181,123	\$27,403	\$80,133	\$1,431	\$54,161	-		-	-	\$1,744	\$55,905	\$415,234	\$471,139	\$1,250,448	\$471,139		
2060	\$233,140	\$5,128,184	\$5,361,324	\$21,634	\$62,547	\$1,110	\$42,023				-	\$1,788	\$43,811	\$435,896	\$479,707	\$1,293,145	\$479,707		
2061	\$134,942	\$5,413,976	\$5,548,918	\$12,539	\$36,048	\$638	\$24,147		-			\$1,706	\$25,854	\$460,188	\$486,042	\$1,337,986	\$486,042		
2062	\$71,471	\$5,671,996	\$5,743,467	\$6,634	\$19,022	\$336	\$12,724			-	-	\$1,684	\$14,408	\$482,120	\$496,528	\$1,384,728	\$496,528		
2063	\$43,123	\$5,903,640	\$5,946,763	\$4,003	\$11,477	\$203	\$7,677					\$1,726	\$9,402	\$501,809	\$511,211	\$1,433,715	\$511,211		
2000	ψ-13,123	ψυ,υυυ,υπυ	ψο,στο,100	ψ+,003	Ψ11,411	Ψ203	Ψ1,011	-	-	-	-	ψ1,720	Ψ3,402	ψοσ1,009	ΨΟΙΙ,ΣΙΙ	ψ1,-00,110	ψ011,211		

⁴ After the first occurrence of the *Total Contrib. if Switch* being smaller than the *Alt. Employer Contrib.*, this column shows the *Total Contrib. if Switch* in all subsequent years. *City of St. Albans Policemen's Pension and Relief Fund*



Table 6 – Switch to Optional II Funding Policy in 2032

	Numbe	r (BOY)													
Year End June 30	Active	Non- Active	MVA (BOY)	Benefit Payments	Expenses	Employer Contrib.	Employee Contrib.	Premium Tax Allocation	Investment Income	MVA (EOY)	AVA (EOY)	Actuarial Accrued Liability	Unfunded Liability	Projected Unfunded Liability	AVA Funded Ratio
2022	23	33	\$9,124,016	\$867,444	\$1,000	\$397,428	\$122,343	\$250,358	(1,363,748)	\$7,661,953	\$8,446,223	\$17,167,484	\$8,721,261	\$8,840,195	49.20%
2023 2024	24 24	34 24	\$7,661,953	\$965,930	\$1,187	\$425,248	\$120,341 \$120,074	\$231,263	\$416,245	\$7,887,933	\$8,488,068	\$17,555,533 \$40,047,546	\$9,067,465	\$9,149,373	48.35% 48.38%
			\$7,887,933	\$910,254	\$1,217	\$455,015	\$126,971	\$274,216	\$432,337	\$8,265,001	\$8,730,727	\$18,047,516	\$9,316,789	\$9,396,721	
2025	24	24	\$8,265,001	\$920,973	\$1,247	\$486,866	\$133,848	\$276,298	\$453,891	\$8,693,684	\$8,693,684	\$18,581,745	\$9,888,061	\$9,970,288	46.79%
2026	24	24	\$8,693,684	\$928,559	\$1,278	\$520,947	\$140,936	\$289,857	\$478,747	\$9,194,334	\$9,194,334	\$19,164,622	\$9,970,288	\$10,022,481	47.98%
2027	24	24	\$9,194,334	\$956,213	\$1,310	\$557,413	\$145,017	\$296,790	\$506,820	\$9,742,851	\$9,742,851	\$19,765,332	\$10,022,481	\$10,047,453	49.29%
2028	24	25	\$9,742,851	\$994,861	\$1,371	\$596,432	\$152,172	\$303,896	\$537,383	\$10,336,502	\$10,336,502	\$20,383,955	\$10,047,453	\$10,043,894	50.71%
2029	24	25	\$10,336,502	\$1,018,702	\$1,405	\$638,182	\$160,010	\$311,180	\$570,930	\$10,996,697	\$10,996,697	\$21,040,591	\$10,043,894	\$10,005,601	52.26%
2030	24	25	\$10,996,697	\$1,037,650	\$1,440	\$682,855	\$168,033	\$321,044	\$608,423	\$11,737,962	\$11,737,962	\$21,743,563	\$10,005,601	\$9,924,821	53.98%
2031	24	25	\$11,737,962	\$1,066,454	\$1,476	\$730,655	\$174,317	\$329,537	\$650,108	\$12,554,649	\$12,554,649	\$22,479,470	\$9,924,821	\$9,804,779	55.85%
2032	22	25	\$12,554,649	\$1,109,930	\$1,451	\$742,813	\$169,869	\$339,738	\$694,332	\$13,390,020	\$13,390,020	\$23,234,170	\$9,844,150	\$9,719,671	57.63%
2033	21	26	\$13,390,020	\$1,147,301	\$1,487	\$720,522	\$164,975	\$347,896	\$738,747	\$14,213,372	\$14,213,372	\$24,014,276	\$9,800,904	\$9,671,188	59.19%
2034	19	26	\$14,213,372	\$1,182,857	\$1,459	\$705,064	\$161,794	\$357,299	\$782,816	\$15,036,029	\$15,036,029	\$24,828,488	\$9,792,459	\$9,656,299	60.56%
2035	18	26	\$15,036,029	\$1,210,642	\$1,462	\$688,415	\$157,337	\$367,848	\$827,022	\$15,864,547	\$15,864,547	\$25,682,905	\$9,818,358	\$9,674,564	61.77%
2036	16	27	\$15,864,547	\$1,254,178	\$1,464	\$662,640	\$147,924	\$378,109	\$870,733	\$16,668,311	\$16,668,311	\$26,342,875	\$9,674,564	\$9,510,558	63.27%
2037	15	27	\$16,668,311	\$1,298,063	\$1,466	\$648,759	\$142,359	\$389,497	\$913,531	\$17,462,928	\$17,462,928	\$26,973,486	\$9,510,558	\$9,337,532	64.74%
2038	14	27	\$17,462,928	\$1,343,835	\$1,467	\$615,604	\$137,776	\$409,618	\$955,515	\$18,236,139	\$18,236,139	\$27,573,671	\$9,337,532	\$9,154,990	66.14%
2039	13	28	\$18,236,139	\$1,407,742	\$1,504	\$596,216	\$134,209	\$419,482	\$995,951	\$18,972,751	\$18,972,751	\$28,127,741	\$9,154,990	\$8,962,408	67.45%
2040	12	28	\$18,972,751	\$1,453,950	\$1,504	\$571,078	\$128,266	\$429,593	\$1,034,642	\$19,680,876	\$19,680,876	\$28,643,284	\$8,962,408	\$8,759,233	68.71%
2041	11	29	\$19,680,876	\$1,500,543	\$1,542	\$541,818	\$121,399	\$439,956	\$1,071,625	\$20,353,589	\$20,353,589	\$29,112,822	\$8,759,233	\$8,544,884	69.91%
2042	10	29	\$20,353,589	\$1,537,553	\$1,541	\$505,666	\$115,878	\$460,891	\$1,107,057	\$21,003,987	\$21,003,987	\$29,548,871	\$8,544,884	\$8,318,746	71.08%
2043	9	29	\$21,003,987	\$1,593,525	\$1,539	\$478,671	\$110,494	\$473,872	\$1,140,784	\$21,612,744	\$21,612,744	\$29,931,490	\$8,318,746	\$8,080,170	72.21%
2044	8	29	\$21,612,744	\$1,658,342	\$1,536	\$442,989	\$104,051	\$492,638	\$1,171,874	\$22,164,418	\$22,164,418	\$30,244,588	\$8,080,170	\$7,828,472	73.28%
2045	8	30	\$22,164,418	\$1,703,770	\$1,617	\$412,983	\$97,586	\$504,549	\$1,200,315	\$22,674,464	\$22,674,464	\$30,502,936	\$7,828,472	\$7,562,931	74.34%
2046	7	30	\$22,674,464	\$1,751,032	\$1,614	\$365,311	\$89,782	\$528,449	\$1,226,228	\$23,131,588	\$23,131,588	\$30,694,519	\$7,562,931	\$7,282,784	75.36%
2047	6	29	\$23,131,588	\$1,791,911	\$1,565	\$323,239	\$79,610	\$541,266	\$1,249,193	\$23,531,420	\$23,531,420	\$30,814,204	\$7,282,784	\$6,987,231	76.37%
2048	5	30	\$23,531,420	\$1,860,365	\$1,604	\$286,502	\$70,797	\$554,402	\$1,268,445	\$23,849,597	\$23,849,597	\$30,836,828	\$6,987,231	\$6,675,422	77.34%
2049	4	30	\$23,849,597	\$1,946,657	\$1,597	\$251,824	\$63,152	\$568,262	\$1,282,832	\$24,067,413	\$24,067,413	\$30,742,835	\$6,675,422	\$6,346,464	78.29%
2050	4	30	\$24,067,413	\$2,009,000	\$1,637	\$219,554	\$56,527	\$582,469	\$1,292,449	\$24,207,775	\$24,207,775	\$30,554,239	\$6,346,464	\$5,999,413	79.23%
2051	3	30	\$24,207,775	\$2,056,150	\$1,629	\$186,407	\$48,986	\$597,031	\$1,298,181	\$24,280,601	\$24,280,601	\$30,280,014	\$5,999,413	\$5,633,275	80.19%
2052	2	29	\$24,280,601	\$2,100,292	\$1,569	\$145,826	\$38,139	\$611,957	\$1,300,000	\$24,274,662	\$24,274,662	\$29,907,937	\$5,633,275	\$5,246,996	81.16%
2053	2	29	\$24,274,662	\$2,131,595	\$1,608	\$116,533	\$32,392	\$627,256	\$1,298,288	\$24,215,928	\$24,215,928	\$29,462,924	\$5,246,996	\$4,839,474	82.19%
2054	2	29	\$24,215,928	\$2,156,198	\$1,648	\$91,280	\$28,146	\$642,937	\$1,294,014	\$24,114,459	\$24,114,459	\$28,953,933	\$4,839,474	\$4,409,538	83.29%
2055	1	29	\$24,114,459	\$2,173,703	\$1,635	\$67,587	\$24,523	\$659,010	\$1,287,653	\$23,977,894	\$23,977,894	\$28,387,432	\$4,409,538	\$3,955,956	84.47%
2056	1	29	\$23,977,894	\$2,184,589	\$1,676	\$40,583	\$19,362	\$675,485	\$1,279,420	\$23,806,479	\$23,806,479	\$27,762,435	\$3,955,956	\$3,462,376	85.75%
2057	1	27	\$23,806,479	\$2,191,367	\$1,603	\$22,677	\$11,221	\$692,372	\$1,269,562	\$23,609,341	\$23,609,341	\$27,071,717	\$3,462,376	\$2,923,871	87.21%
2058	0	26	\$23,609,341	\$2,191,558	\$1,526	\$12,632	\$5,938	\$709,681	\$1,258,770	\$23,403,278	\$23,403,278	\$26,327,149	\$2,923,871	\$2,337,524	88.89%
2059	0	26	\$23,403,278	\$2,186,509	\$1,564	\$8,259	\$3,583	\$727,423	\$1,247,871	\$23,202,341	\$23,202,341	\$25,539,865	\$2,337,524	\$1,700,250	90.85%
2060	0	25	\$23,202,341	\$2,170,403	\$1,541	\$5,596	\$2,168	\$745,609	\$1,237,640	\$23,021,410	\$23,021,410	\$24,721,660	\$1,700,250	\$1,008,780	93.12%
2061	0	24	\$23,021,410	\$2,145,724	\$1,516	\$3,799	\$1,227	\$764,249	\$1,228,791	\$22,872,236	\$22,872,236	\$23,881,016	\$1,008,780	\$259,654	95.78%
2062	0	24	\$22,872,236	\$2,116,692	\$1,554	\$2,779	\$664	\$783,355	\$1,221,848	\$22,762,636	\$22,762,636	\$23,022,290	\$259,654	-	98.87%
2063	0	23	\$22,762,636	\$2,084,835	\$1,526	\$2,186	\$357	\$266,700	\$1,202,643	\$22,148,161	\$22,148,161	\$22,148,161	-	-	100.00%



Table 6 – Switch to Optional II Funding Policy in 2032 (Cont.)

							Emp	loyer Contributi	ons					Contribution C	Comparison		
Year End June 30	Closed Group Payroll	New Entrant Payroll	Total Payroll	Employee Contrib.	Gross Normal Cost	Interest on Net Normal Cost	Net Employer Normal Cost	Amortization of UAAL	Mid-Year Interest on Amortization	Premium Tax Allocation	Net Employer Amortization	Expenses	Opt. Employer Contrib.	Statewide Employer Contrib.	Total Contrib. if Switch	Alt. Employer Contrib.	Final Employer Contrib. ⁵
2024	\$1,335,888	-	\$1,335,888	\$123,617	\$437,327	\$8,512	\$322,222	\$522,203	\$14,168	\$274,216	\$262,155	\$1,217	\$585,594	-	\$585,594	\$455,015	\$455,015
2025	\$1,408,262	-	\$1,408,262	\$130,312	\$462,158	\$9,004	\$340,850	\$544,452	\$14,772	\$276,298	\$282,926	\$1,247	\$625,023	-	\$625,023	\$486,866	\$486,866
2026	\$1,482,870	-	\$1,482,870	\$137,213	\$487,804	\$9,512	\$360,103	\$563,555	\$15,290	\$289,857	\$288,988	\$1,278	\$650,369	-	\$650,369	\$520,947	\$520,947
2027	\$1,525,344	-	\$1,525,344	\$141,186	\$501,244	\$9,769	\$369,827	\$602,942	\$16,359	\$296,790	\$322,511	\$1,310	\$693,648	-	\$693,648	\$557,413	\$557,413
2028	\$1,600,903	-	\$1,600,903	\$148,152	\$524,534	\$10,212	\$386,594	\$611,479	\$16,591	\$303,896	\$324,174	\$1,371	\$712,139	-	\$712,139	\$596,432	\$596,432
2029	\$1,683,455	-	\$1,683,455	\$155,783	\$551,526	\$10,737	\$406,480	\$618,799	\$16,789	\$311,180	\$324,408	\$1,405	\$732,293	-	\$732,293	\$638,182	\$638,182
2030	\$1,767,920	-	\$1,767,920	\$163,594	\$579,662	\$11,289	\$427,357	\$624,812	\$16,952	\$321,044	\$320,720	\$1,440	\$749,517	-	\$749,517	\$682,855	\$682,855
2031	\$1,833,799	-	\$1,833,799	\$169,712	\$602,275	\$11,736	\$444,299	\$629,117	\$17,069	\$329,537	\$316,649	\$1,476	\$762,424	-	\$762,424	\$730,655	\$730,655
2032	\$1,787,008	\$115,995	\$1,903,003	\$165,382	\$586,733	\$11,432	\$432,783	\$631,192	\$17,125	\$339,738	\$308,579	\$1,451	\$742,813	\$9,860	\$752,673	\$781,801	\$752,673
2033	\$1,735,536	\$243,120	\$1,978,656	\$160,617	\$568,173	\$11,058	\$418,614	\$631,192	\$17,125	\$347,896	\$300,421	\$1,487	\$720,522	\$20,665	\$741,187	\$836,527	\$741,187
2034	\$1,702,265	\$368,631	\$2,070,896	\$157,520	\$556,499	\$10,825	\$409,804	\$633,901	\$17,199	\$357,299	\$293,801	\$1,459	\$705,064	\$31,334	\$736,398	\$895,084	\$736,398
2035	\$1,655,138	\$497,171	\$2,152,309	\$153,181	\$540,550	\$10,510	\$397,879	\$639,569	\$17,353	\$367,848	\$289,074	\$1,462	\$688,415	\$42,260	\$730,675	\$957,740	\$730,675
2036	\$1,556,190	\$679,489	\$2,235,679	\$144,017	\$507,693	\$9,867	\$373,543	\$648,156	\$17,586	\$378,109	\$287,633	\$1,464	\$662,640	\$57,757	\$720,397	\$1,024,782	\$720,397
2037	\$1,497,739	\$825,575	\$2,323,314	\$138,599	\$488,185	\$9,485	\$359,071	\$659,817	\$17,902	\$389,497	\$288,222	\$1,466	\$648,759	\$70,174	\$718,933	\$1,096,517	\$718,933
2038	\$1,449,366	\$950,779	\$2,400,145	\$134,137	\$471,032	\$9,141	\$346,036	\$659,817	\$17,902	\$409,618	\$268,101	\$1,467	\$615,604	\$80,816	\$696,420	\$1,173,273	\$696,420
2039	\$1,411,790	\$1,083,339	\$2,495,129	\$130,664	\$458,251	\$8,888	\$336,475	\$659,817	\$17,902	\$419,482	\$258,237	\$1,504	\$596,216	\$92,084	\$688,300	\$1,255,402	\$688,300
2040	\$1,349,305	\$1,251,077	\$2,600,382	\$124,878	\$437,835	\$8,491	\$321,448	\$659,817	\$17,902	\$429,593	\$248,126	\$1,504	\$571,078	\$106,342	\$677,420	\$1,343,280	\$677,420
2041	\$1,277,006	\$1,426,921	\$2,703,927	\$118,192	\$412,714	\$7,991	\$302,513	\$659,817	\$17,902	\$439,956	\$237,763	\$1,542	\$541,818	\$121,288	\$663,106	\$1,437,310	\$663,106
2042	\$1,219,179	\$1,603,062	\$2,822,241	\$112,817	\$392,525	\$7,589	\$287,297	\$659,817	\$17,902	\$460,891	\$216,828	\$1,541	\$505,666	\$136,260	\$641,926	\$1,537,922	\$641,926
2043	\$1,162,178	\$1,751,001	\$2,913,179	\$107,575	\$373,641	\$7,219	\$273,285	\$659,817	\$17,902	\$473,872	\$203,847	\$1,539	\$478,671	\$148,835	\$627,506	\$1,645,577	\$627,506
2044	\$1,094,412	\$1,934,528	\$3,028,940	\$101,302	\$350,902	\$6,772	\$256,372	\$659,817	\$17,902	\$492,638	\$185,081	\$1,536	\$442,989	\$164,435	\$607,424	\$1,760,767	\$607,424
2045	\$1,026,514	\$2,135,639	\$3,162,153	\$95,008	\$326,912	\$6,292	\$238,196	\$659,817	\$17,902	\$504,549	\$173,170	\$1,617	\$412,983	\$181,529	\$594,512	\$1,884,021	\$594,512
2046	\$944,044	\$2,341,967	\$3,286,011	\$87,410	\$296,173	\$5,664	\$214,427	\$659,817	\$17,902	\$528,449	\$149,270	\$1,614	\$365,311	\$199,067	\$564,378	\$792,756	\$564,378
2047	\$837,173	\$2,585,048	\$3,422,221	\$77,507	\$257,835	\$4,893	\$185,221	\$659,817	\$17,902	\$541,266	\$136,453	\$1,565	\$323,239	\$219,729	\$542,968	\$825,986	\$542,968
2048	\$744,459	\$2,772,232	\$3,516,691	\$68,927	\$226,240	\$4,268	\$161,581	\$659,817	\$17,902	\$554,402	\$123,317	\$1,604	\$286,502	\$235,640	\$522,142	\$849,402	\$522,142
2049	\$663,967	\$2,966,217	\$3,630,184	\$61,484	\$198,536	\$3,718	\$140,770	\$659,817	\$17,902	\$568,262	\$109,457	\$1,597	\$251,824	\$252,128	\$503,952	\$878,648	\$503,952
2050	\$594,593	\$3,176,899	\$3,771,492	\$55,034	\$174,461	\$3,240	\$122,667	\$659,817	\$17,902	\$582,469	\$95,250	\$1,637	\$219,554	\$270,036	\$489,590	\$913,478	\$489,590
2051	\$514,547	\$3,405,860	\$3,920,407	\$47,692	\$149,032	\$2,750	\$104,090	\$659,817	\$17,902	\$597,031	\$80,688	\$1,629	\$186,407	\$289,498	\$475,905	\$949,124	\$475,905
2052	\$400,826	\$3,658,525	\$4,059,351	\$37,132	\$113,554	\$2,073	\$78,495	\$659,817	\$17,902	\$611,957	\$65,762	\$1,569	\$145,826	\$310,975	\$456,801	\$982,179	\$456,801
2053	\$340,615	\$3,863,296	\$4,203,911	\$31,536	\$94,294	\$1,703	\$64,461	\$659,818	\$17,902	\$627,256	\$50,464	\$1,608	\$116,533	\$328,380	\$444,913	\$1,016,754	\$444,913
2054	\$295,814	\$4,059,023	\$4,354,837	\$27,403	\$80,804	\$1,449	\$54,850	\$659,817	\$17,902	\$642,937	\$34,782	\$1,648	\$91,280	\$345,017	\$436,297	\$1,052,713	\$436,297
2055	\$257,916	\$4,256,348	\$4,514,264	\$23,875	\$69,870	\$1,248	\$47,243	\$659,817	\$17,902	\$659,010	\$18,709	\$1,635	\$67,587	\$361,790	\$429,377	\$1,090,784	\$429,377
2056	\$203,143	\$4,468,360	\$4,671,503	\$18,851	\$54,555	\$969	\$36,673	\$659,817	\$17,902	\$675,485	\$2,234	\$1,676	\$40,583	\$379,811	\$420,394	\$1,128,532	\$420,394
2057	\$117,572	\$4,717,085	\$4,834,657	\$10,925	\$31,442	\$557	\$21,074	\$659,818	\$17,902	\$692,372	-	\$1,603	\$22,677	\$400,952	\$423,629	\$1,167,710	\$423,629
2058	\$62,285	\$4,943,026	\$5,005,311	\$5,781	\$16,594	\$293	\$11,106	\$656,962	\$17,825	\$709,681	-	\$1,526	\$12,632	\$420,157	\$432,789	\$1,208,559	\$432,789
2059	\$37,571	\$5,143,552	\$5,181,123	\$3,488	\$10,006	\$177	\$6,695	\$649,006	\$17,609	\$727,423		\$1,564	\$8,259	\$437,202	\$445,461	\$1,250,448	\$445,461
2060	\$22,742	\$5,338,582	\$5,361,324	\$2,111	\$6,059	\$107	\$4,055	\$632,116	\$17,151	\$745,609	-	\$1,541	\$5,596	\$453,779	\$459,375	\$1,293,145	\$459,375
2061	\$12,871	\$5,536,047	\$5,548,918	\$1,195	\$3,418	\$60	\$2,283	\$597,350	\$16,207	\$764,249	-	\$1,516	\$3,799	\$470,564	\$474,363	\$1,337,986	\$474,363
2062	\$6,950	\$5,736,517	\$5,743,467	\$646	\$1,839	\$32	\$1,225	\$517,889	\$14,051	\$783,355	-	\$1,554	\$2,779	\$487,604	\$490,383	\$1,384,728	\$490,383
2063	\$3,744	\$5,943,019	\$5,946,763	\$348	\$991	\$17	\$660	\$259,654	\$7,045	\$802,939		\$1,526	\$2,186	\$505,157	\$507,343	\$1,433,715	\$507,343

⁵ After the first occurrence of the *Total Contrib. if Switch* being smaller than the *Alt. Employer Contrib.*, this column shows the *Total Contrib. if Switch* in all subsequent years. *City of St. Albans Policemen's Pension and Relief Fund*



Section X. Participant Information

Participant Summary
The following table summarizes the counts, ages, and benefit information for plan participants used in the prior and current valuations.

	July 1, 2021	July 1, 2022
1. Actives		
a. Number	23	24
b. Average Age	35.6	34.0
c. Average Service	8.1	6.5
d. Average Salary	\$ 56,650	\$ 54,662
2. Retirees		
a. Number	18	20
b. Average Age	62.2	62.0
c. Total Annual Benefits	\$ 683,455	\$ 780,908
3. Survivors		
a. Number	5	3
b. Average Age	70.9	62.6
c. Total Annual Benefits	\$ 87,675	\$ 49,491
4. Disableds		
a. Number	1	1
b. Average Age	51.8	52.8
c. Total Annual Benefits	\$ 30,082	\$ 30,728
Deferred Vesteds		
a. Number	0	0
b. Average Age	N/A	N/A
c. Total Annual Benefits	\$ N/A	\$ N/A
Members Owed Refunds		
a. Number	9	10
b. Average Age	36.0	36.3
c. Total Refunds Owed	\$ 66,933	\$ 67,115



Active Age/Service Distribution Including Compensation

Shown below is the age and service distribution of active participants in the City of St. Albans Policemen's Pension and Relief Fund. The compensation shown is the average projected pay for the plan year beginning July 1, 2022.

Credited Service as of July 1, 2022

	0-4	5-9	10-14	15-19	20-24	25-29	30 & Up	Total
Under 25	2 44,873	-		-	-	-	-	2 44,873
25 - 29	6 49,075	-	-	-	-	-	-	6 49,076
30 - 34	1 18,161	3 63,946	1 65,092	-	-	-	-	5 55,018
35 - 39	1 46,154	4 57,405		-	-	-	-	5 55,155
40 - 44	-	1 57,171	1 63,717	1 64,586	-	-	- -	3 61,825
45 - 49	-	-	1 61,292	2 65,025	-		-	3 63,781
50 - 54	-	- -	-	-	-	-	-	-
55 - 59	-	- -	-		-		-	
60 - 64	-	-	-	-	-	-	-	-
65 & Up	-	-			-		-	-
Totals	10 44,851	8 59,829	3 63,367	3 64,879	-	-	- -	24 54,662

Averages

Age	34.0
Service	6.5



Participant Reconciliation
Shown below is the reconciliation of participants between the prior and current valuation date.

	Actives	Retirees	Survivors	Disableds	Deferred Vesteds	Due Refund	Total
Participants as of 7/1/2021	23	18	5	1	-	9	56
New	3	-	-	-	-	-	3
Rehired	-	-	-	-	-	-	-
Terminated - Vested	-	-	-	-	-	-	-
Terminated - Nonvested	-	-	-	-	-	-	-
Disabled	-	-	-	-	-	-	-
Retired	(2)	2	-	-	-	-	-
Paid Refund	-	-	-	-	-	-	-
Payments Expired	-	-	-	-	-	-	-
Deceased - No Survivor	-	-	(2)	-	-	-	(2)
Deceased - With Survivor	-	-	-	-	-	-	-
New Beneficiary	-	-	-	-	-	-	-
New QDRO	-	-	-	-	-	-	-
Corrections	-	-	-	-	-	1	1
Participants as of 7/1/2022	24	20	3	1	-	10	58



Section XI. Summary of Plan Provisions

Plan Year

July 1 – June 30.

Eligibility to Participate

All compensated employees of the relevant Fire or Police Department are eligible to participate in the Firemen's or Policemen's Pension and Relief Fund (Plan). If the fund uses the Optional, Optional II, or Conservation funding policies, only members hired prior to the date of the change to either one of these policies are eligible to participate in the Plan.

Average Annual Compensation

The average of the three twelve-consecutive-month periods of employment in which the member received the highest salary or compensation. While the months in each twelve-month period need to be consecutive, the three "twelve-consecutive-month periods" do not need to be consecutive.

Each twelve-consecutive-month annual compensation is limited to 120% of the *Average Adjusted Salary*, which is the average of the Adjusted Salary for the two consecutive twelve-consecutive-month periods immediately preceding the twelve-consecutive-month period used in determining benefits.

The *Adjusted Salary* for any preceding year is the respective preceding year total salary multiplied by the ratio of base salary of the year used in determining benefits to the base salary from the respective preceding year. A preceding year is either the "year one" which is the second twelve consecutive month period preceding the twelve-consecutive-month period used to determine benefits or "year two" which is the twelve-consecutive-month period immediate preceding the twelve-consecutive-month period used to determine benefits.

Employee Contributions

Participating employees hired before January 1, 2010: 9.50% of compensation. Participating employees hired on or after January 1, 2010: 9.50% of compensation.

Employer Contributions

The municipality has elected to contribute the minimum employer contribution under the Alternative funding policy.

Credited Service

The number of years that the member has contributed to the employees' retirement and benefit fund.

Absence from service because of sickness or injury for a period of two years or less shall not be construed as time out of service.

Military Service — Any current member who has been on qualified military service in the armed forces of the United States with an honorable discharge may, within six months from his or her date of discharge, be given credit for continuous service in the paid police or fire department.



A member may receive retirement eligibility service (i.e. eligibility towards the 20 years of service for normal retirement) for qualified military service only if the military service was prior to November 18, 2009 or the member repays, without interest, member assessments that were missed during the period of military service.

Any member who has served in active duty with the armed forces of the United States, whether prior to or subsequent to becoming a member of a paid police or fire department, shall receive an additional 1% of Average Annual Compensation for each full continuous year so served in active military duty, up to a maximum of an additional 4%.

Normal Retirement Eligibility

Members are eligible at the earlier of age 50 with 20 years of credited service or age 65.

Normal Retirement Benefit

The annual retirement benefit equals the sum of:

- 60% of average annual compensation, for service up to 20 years; not less than \$6,000
- 2% for each year of service between 20 and 25 years
- 1% for each year of service between 25 and 30 years
- Employees serving in the military are eligible for an additional 1% of average annual compensation for each year of military service up to four years.

The maximum benefit is limited to 75% of average annual compensation.

Termination Benefits

Any member who terminates employment prior to retirement and has at least 20 years of credited service will be entitled to a pension benefit equal to the normal retirement benefit commencing at age 50.

Refunds: Any member who terminates from their department with fewer than 20 years of credited service and prior to age 65 shall be refunded all deductions made from his salary, without interest. Any member who receives such a refund and subsequently wishes to reenter (available only if the municipal plan is still open as of such date) the department must repay to the pension fund all sums refunded with interest at the rate of 8% per annum.

Disability Retirement Eligibility

Members are eligible after earning five years of service. There is no years of service requirement if disability is service related. Disability is defined in WV Code §8-22-23a as the inability to perform adequately the job duties required of the member, as described in the National Fire Protection Association (NFPA) Standard 1582's Chapter 9 Essential Job Tasks - Specific Evaluations of Medical Conditions in Members.

Disability Retirement Benefit

The monthly disability benefit equals the sum of:

- 60% of monthly salary at disability, but not less than \$500, plus
- Employees serving in the military are eligible for an additional benefit of 1% of monthly salary at disability for each year of military service up to four years.



Disability benefits, when aggregated with monthly state workers compensation benefits, shall not exceed 100% of the member's monthly compensation at the time of disability. For permanent disabilities, the benefit is paid for life, while for temporary disabilities, the benefit is paid during the disability period not to exceed four 26-week periods.

Ordinary (non line-of-duty) disability pensions are offset by \$1 per every \$3 of other income. There is no offset if total other income is \$18,200 (as of 2022, indexed by state minimum wage for years after 2022) or less.

Death Benefit Eligibilty

Members are eligible after earning five years of service. There is no years of service requirement if death is service related. Retirees and terminated vested participants are also eligible.

Death Benefit

For surviving spouses, this benefit is equal to 60% of the participant's benefit at the participant's date of retirement and is indexed for cost-of-living adjustments through the commencement date of this death benefit (and annually each July thereafter) using the methodology outlined in the *Supplemental Benefit (Cost of Living Adjustment – COLA)* subsection below. This benefit may not be less than \$300 per month and is payable to the spouse until death or remarriage.

Other dependents (children, parents, brothers and sisters) are also eligible for death benefits. Similar to the death benefit payable to a surviving spouse, these death benefits are derived at the participant's date of retirement and indexed for COLAs. To each dependent:

- Child: 20% of the participant's benefit until the child attains age 18 or marries; for a disabled child, payments continue beyond age 18 if the child remains disabled.
- Orphaned child: 25% of the participant's benefit until the child attains age 18 or marries; for a disabled orphaned child, payments continue beyond age 18 if the child remains disabled.
- Parent: 10% of the participant's benefit for life.
- Sibling: the sum of fifty dollars per month (but a total not to exceed \$100 per month) until such individual attains the age of age 18 or marries.

The total amount, derived as the participant's date of retirement, of all benefits payable to survivors cannot exceed the amount of the participant's benefit at the participant's date of retirement. Due to the COLA methodology, the sum of the benefits payable to survivors as of any time after the participant's date of retirement *may*, in some circumstances, exceed the participant's benefit amount. In no case shall the payments to the surviving spouse and children be reduced below 65 percent of the total amount paid to all dependents.

If the member is not yet in receipt of pension benefits at the date of death, then the member's benefit for purposes of deriving the death benefit to the surviving spouse and dependents is calculated using the maximum of the member's actual service at the date of death and 20 years.

Normal Form

Life annuity with a 60% spouse's survivor benefit. The benefit payable to the spouse as of the member's date of death is determined by taking 60% of the member's benefit at the member's

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retirement date and indexing that amount to the date of death using the COLA methodology described in the *Supplemental Benefit (Cost of Living Adjustment – COLA* section below. No other optional forms are allowed under the Plan.

Supplemental Benefit (Cost of Living Adjustment – COLA)

If a plan meets the criteria outlined in the *Supplemental Benefit Eligibility* subsection within *Section I. Executive Summary*, then all retirees, surviving beneficiaries, and disability pensioners shall be granted automatic cost-of-living benefits commencing on the first day of July following two years of retirement. The benefits equal the percentage increase in the Consumer Price Index, limited to 4% (2% for some disability retirees), multiplied by the sum of the allowable amount, which is the first \$15,000 of the total annual benefits paid and the accumulated supplemental pension amounts for prior years. The consumer price index currently used to determine the supplemental benefit is the CPI-U US City Average all items with a base of 1982-1984 equal to 100. The increase is measured as the increase in the annual average from the second prior calendar year to the annual average from the prior calendar year.

Changes in Plan Provisions Since Prior Valuation None.



Section XII. Actuarial Methods and Assumptions

Actuarial Cost Method

The actuarial valuation uses the Entry Age Normal cost method calculated on an individual basis with level percentage of pay normal cost.

West Virginia Funding Policies

Under West Virginia Code §8-22-20(c)(1), there are five funding policies available for plan sponsors. Those funding policies are summarized below:

• Standard Funding Policy: Employer contributions are equal to the sum of (1) the net employer normal cost and (2) an amortization of the unfunded actuarial liability, less the State premium tax allocation applicable to the plan year, not less than \$0. Prior to the July 1, 2020 actuarial valuation, the unfunded actuarial accrued liability was amortized over a single, closed period of 40-years from July 1, 1991, using level dollar amortization (8.0 years remaining for contributions developed for the fiscal year ending June 30, 2024). Beginning with the July 1, 2020 valuation, the unfunded actuarial accrued liability as of July 1, 2019 continues to be amortized over that same closed, decreasing period but new bases will be amortized using a layered approach with the following initial amortization periods when each base is created:

Experience gains and losses: 15 years
 Assumption changes: 15 years
 Plan changes: 5 years

West Virginia Code §8-22-20(c)(3) requires that plans contribute at least the normal cost until the plan is at least 125% funded. Upon reaching 125% funded, the actuary may provide an actuarial recommendation that the normal cost does not need to be paid by the employer for that fiscal year and the municipality may then elect to not make a contribution for that fiscal year. Other than this requirement, the Code does not detail any other policies or methodologies for a plan in a surplus position.

To orderly track the surplus position, which will become particularly relevant once a plan breaches 125% funded for the first time, and to develop an actuarially determined contribution (ADC) for GASB purposes, actuarial surpluses (the amount by which assets exceed actuarial accrued liabilities) will be amortized over 30 years using a single open amortization base and all existing prior bases will be eliminated. Provided, however, for funding purposes the credit installments from the surplus base will be inapplicable at least until the plan reaches 125% funded. Finally, if an overfunded plan subsequently becomes less than 100% funded, the surplus base will be eliminated, the unfunded actuarial accrued liability will be amortized over 15 years, and any subsequent gains and losses, assumption changes, or plan changes will be amortized according to the schedule outlined above for plans with an actuarial deficiency.

The Standard funding policy is consistent with generally accepted actuarial standards of practice.



• Alternative Funding Policy: Employer contributions equal 107% of the prior year's employer contribution. The state premium tax allocation is contributed in addition to the employer contributions.

The Alternative funding policy is <u>not consistent</u> with generally accepted actuarial standards of practice because the policy does not reflect emerging experience gains and losses and may not produce an actuarially sound pattern of contributions or funded ratio.

Optional Funding Policy: Allows plan sponsors using either the Standard funding policy or Alternative funding policy to close the current local Plan to new hires and switch to this funding policy, under which they would contribute to the Plan on an actuarially determined basis. Effective July 1, 2023, plan sponsors using the Conservation funding policy may switch to the Optional funding policy and the plan would remain closed to new hires. The actuarially determined employer contribution is equal to the net employer normal cost, plus a level dollar amortization of the unfunded actuarial liability, less the state premium tax allocation applicable to the plan year, not less than \$0. The closed amortization period for contributions developed for the fiscal year ending June 30, 2024 is 8.0 years for sponsors who previously used the Standard funding policy and 26.5 years for sponsors who previously used the Alternative or Conservation funding policies. Beginning with the July 1, 2020 valuation, the unfunded actuarial accrued liability as of July 1, 2019 continues to be amortized over those same closed, decreasing periods but new bases will be amortized using a layered approach using the same amortization periods as those used in the Standard Funding Policy listed above. Similarly, surplus amortization will follow the methodology outlined in the Standard Funding Policy.

For plans that switch from the Alternative or Conservation funding policy on or after the July 1, 2020 valuation, the initial unfunded actuarial accrued liability prior to any assumption changes or plan changes that became effective during the year ending on the valuation date will be amortized over the maximum of 15 years and the remaining period described above (26.5 years).

Members hired after the adoption date of the Optional funding policy are covered in the statewide pension plan – The Municipal Police Officers and Firefighters Retirement System (MPFRS).

The Optional funding policy is consistent with generally accepted actuarial standards of practice.

• Optional II Funding Policy: Allows plan sponsors using the Alternative funding policy or Conservation funding policy to switch to this funding policy, under which they would contribute to the Plan on an actuarially determined basis. If switching from the Alternative funding policy, the current local Plan would close to new hires. The actuarially determined employer contribution is equal to the net employer normal cost, plus a level dollar amortization of the unfunded actuarial liability, less the state premium tax allocation applicable to the plan year, not less than \$0. The initial unfunded closed amortization period for contributions developed for the fiscal year ending June 30, 2024 is 40 years.

Upon switching to the Optional II funding policy, the initial unfunded actuarial accrued liability prior to any assumption changes or plan changes that became effective during the year ending on the valuation date will be amortized over the maximum of 15 years



and the remaining period described in the previous paragraph (40 years). New unfunded liability bases created after the switch will be amortized using a layered approach using the same amortization periods as those used in the Standard Funding Policy listed above. Similarly, surplus amortization will follow the methodology outlined in the Standard Funding Policy.

Members hired after the adoption date of the Optional II funding policy are covered in the statewide pension plan – MPFRS.

The Optional II funding policy is consistent with generally accepted actuarial standards of practice.

• Conservation Funding Policy: Formerly allowed plan sponsors using the Alternative funding policy to close the current local Plan to new hires and contribute to the plan on a pay-as-you-go basis. Effective July 1, 2023, plan sponsors are prohibited from switching to the Conservation funding policy. Sponsors using the Conservation funding policy are required to assign a portion of the state premium tax allocation and member contributions to an accumulation account that is projected to grow to 100% of the remaining actuarial liabilities at the end of a 35-year projection period.

Members hired after the adoption date of the Conservation funding policy are covered in the statewide pension plan – MPFRS.

This Conservation funding policy is <u>not consistent</u> with generally accepted actuarial principles.

This Plan is valued using the **Alternative** funding policy.

Amortization Method for GASB

Amortization Policies				
Standard, Optional, and Optional II Funding Policies	Same as for funding purposes (described above)			
Alternative and Conservation Funding Policies	The methodology used for plans that switch to the Optional funding policy on or after July 1, 2020 for funding purposes (described above)			

Basis for Selection of Actuarial Methods

While the funding policies and funding amortization methodology are defined in the West Virginia Code, the following actuarial methods used in the valuation were set by the MPOB on the basis of Bolton's 2020 *Actuarial Methods Recommendation Report*. These actuarial methods are, in the opinion of the signing actuaries, reasonable for the intended purposes.

Asset Method

Actuarial Value of Assets using four-year smoothing. Returns on the market value of assets above or below the assumed rate of return are gradually recognized using straight-line amortization over a four-year period.



Roll-Forward Method

For the actuarially-based funding policies (Standard, Optional, and Optional II), valuation results are rolled forward one year to align the contribution calculation with the contribution year:

- To develop the projected unfunded actuarial accrued liability (UAAL), the UAAL on the
 valuation date is increased by the employer normal cost (which is net of employee
 contributions) and expected expenses, both with interest, and decreased by the
 expected employer contribution, including the premium tax allocation, for the fiscal year
 beginning on the valuation date, with interest.
- The projected normal cost for the contribution year is derived using a valuation software projection (open-group projection for plans open to new entrants and closed-group projection for plans closed to new entrants).



Projection Methods

The projections of future assets, liabilities, funded status and contributions are based on the following assumptions:

- Compensation will increase and members will leave the active workforce according to the actuarial valuation assumptions.
- For the open group projections, each active member leaving the workforce will be replaced with a new entrant so that the total number of active members remains the same throughout the projection period. The assumption made regarding the demographic makeup of new entrants is described in the *Open Group Projection New Hire Profile* section below.
- For closed group projections, new hires that replace active members who retire, terminate, die or become disabled are not assumed to enter the Plan.
- The sponsor contributes the amount determined by the applicable funding policy each year.
- For plans that are less than 100% funded as of the valuation date, the contribution during the projection period is capped at the amount needed to achieve and maintain a funded status of 100%.
- Assets grow at the assumed rate of return (discount rate).
- Non-vested members receive a refund of their accumulated employee contribution account balance during the year in which they terminate.
- New amortization bases are not created for contribution gains that may occur during the
 projection period as a result of the premium tax allocation exceeding the unfunded liability
 amortization payment.
- For projections that illustrate a change from the Alternative funding policy to either the
 Optional funding policy or Optional II funding policy, new hires that replace active
 members who, after the change in funding policy, retire, terminate, die or become disabled
 are assumed to enter the statewide pension plan The Municipal Police Officers and
 Firefighters Retirement System (MPFRS). For the MPFRS, employer contributions are
 currently equal to 8.5% of pay but can range from 8.5% 10.5% of pay. For these
 projections, MPFRS employer contributions are assumed to be 8.5% of pay throughout the
 projection period.

Open Group Projection New Hire Profile

The active population is projected to be stable throughout the open group projections meaning that active exits are replaced by new hires. The profile for new hires contains four separate records corresponding to a different age-at-hire band (under 24, 24-27, 28-31, 32 and above). Each record contains the average (for the associated age-at-hire band) date of birth, compensation, and percentage male of all actives who have two years of service or less within the 53 plans covered by the MPOB. The four records are created using compensation for the fiscal year ending on the valuation date. The beginning salary for new entrants hired after the current plan year is equal to the new entrant profile salary increased by the general wage inflation assumption of 3.50% for each year between the new entrant's assumed date of hire and the valuation date.



Premium Tax Allocation

The premium tax allocation is projected using the following methodology:

- (1) The Base Allocation is a fixed amount equal to \$8,709,689 in all future years. This amount is allocated to each individual Pension and Relief Fund in proportion to the number of eligible members, which includes active members covered in either the Pension and Relief Fund or the statewide plan, Municipal Police Officers and Firefighters Retirement System (MPFRS). We assume that the percentage of eligible members of the Pension and Relief Fund and MPFRS for a single municipal plan (e.g., St. Albans Police) to the total eligible members for all municipalities remains constant throughout the projection period.
- (2) The Excess Allocation is equal to the excess of the current year premium tax assigned to all Pension and Relief Funds over the total Base Allocation. This amount is allocated to each individual Pension and Relief Fund in proportion to the number of eligible active and retired members covered in either the Pension and Relief Fund or the MPFRS.
- (3) We have assumed all Pension and Relief Funds will make the minimum statutory contribution requirement and will receive 100% of the total allocation assigned to the individual plan until they are 100% funded. Once a plan attains a funded ratio of at least 100%, the premium tax that would have been allocated to the plan had the funded ratio been lower than 100% is reallocated in subsequent years to all remaining plans that are less than 100% funded.
- (4) The total available premium tax allocation, net of expenses, as of September 1, 2023, includes a Base Allocation of \$8,709,689, an Excess Allocation of \$12,751,652, and an Expired Premium Tax Allocation of \$358,083.
- (5) For the plan year ending June 30, 2023, all Pension and Relief Funds reported a total of 1,736.67 eligible active members and 2,247.38 eligible retired members. The City of St. Albans Policemen's Pension and Relief Fund reported 23.17 eligible active members and 24.83 eligible retired members, based on the average number of plan participants for the 12-month period ending June 30, 2023. The Fund is eligible to receive a premium tax allocation of \$274,215.97 for the fiscal year ending June 30, 2024.
- (6) The total premium tax allocation is assumed to increase by 2.50% in calendar years ending on and after 2024.

Basis for Selection of Actuarial Assumptions

Unless otherwise noted, the actuarial assumptions used in the valuation were set by the MPOB on the basis of Bolton's 2020 *Experience Study Report*, which covered experience during the period from period July 1, 2014 through June 30, 2017. These assumptions are, in the opinion of the actuaries signing this report, reasonable for the intended purposes.



Discount Rate

The following table outlines the factors used to determine the discount rate:

<u></u>	iscount Rate Mat	rix for Plans Not I	nvesting with the IN	<u> ИВ</u>
Funded Ratio as of Valuation Date ⁶	Equity Exposure ⁷	Projected Funded Ratio after 15 Years ⁶	Discount Rate – Standard and Optional Policies	Discount Rate – Alternative and Conservation Policies
30% or more	60% or more	70% or more	6.50%	6.25%
30% or more	50% or more	70% or more	6.25%	6.00%
30% or more	40% or more	60% or more	6.00%	5.50%
15% or more	30% or more	50% or more	5.75%	5.00%
15% or more	20% or more	40% or more	5.50%	4.75%
Less than 15%	Less than 20%	15% or more	5.00%	4.25%
Less than 15%	Less than 20%	Less than 15%	5.00%	4.00%

	Discount Rate I	Matrix for Plans <mark>Inv</mark>	esting with the IMB	
Funded Ratio as of Valuation Date ⁶	Equity Exposure ⁷	Projected Funded Ratio after 15 Years ⁶	Discount Rate – Standard and Optional Policies ⁸	Discount Rate – Alternative and Conservation Policies
30% or more	N/A	70% or more	7.00%	6.50%
30% or more	N/A	70% or more	7.00%	6.00%
15% or more	N/A	50% or more	7.00%	5.50%
15% or more	N/A	40% or more	7.00%	5.25%
Less than 15%	N/A	15% or more	7.00%	4.75%
Less than 15%	N/A	Less than 15%	7.00%	4.50%

As of June 30, 2022	
Plan Investing with the IMB	No
Actuarially-Based Funding Policy	No
Actuarial Value of Assets	\$8,446,223
Liabilities Using a 5.0% Discount Rate	\$18,390,402
Funded Ratio	45.93%
Equity Exposure	50%
Projected Funded Ratio after 15 Years	61%
Discount Rate	5.50%

City of St. Albans Policemen's Pension and Relief Fund

⁶ Funded ratios based on a 6.0% investment return assumption for plans using an actuarially sound funding policy (Standard, Optional, or Optional II) and a 5.0% investment return assumption for other plans (Alternative or Conservation).

⁷ Based on target allocation percentage outlined in the investment policy.

⁸ Assumes the IMB maintains a current growth asset target above 70%. If this policy changes, the assumption should be reviewed.



Inflation

2.50%, compounded annually.

Cost of Living Increase in Benefits

2.50% on first \$15,000 of annual benefit and on the accumulated supplemental pension amounts for prior years. Assumed to be payable to all members receiving payments.

Salary Increases

The following assumed rates are used:

Years of Service	Increase
0	20.00%
1	9.00%
2	6.50%
3	6.00%
4-28	5.00%
29-33	4.00%
34+	3.50%

Pay Spiking

A load of 6% is applied to active retirement and active termination pension benefits to account for unused accrued leave time (vacation and sick) that is included in pensionable earnings used to compute the average annual compensation.

Mortality

Pre Decrement

SOA PubS-2010(B) Employee⁹ Mortality Table¹⁰ with the 2010 base rates projected generationally from 2010 using the SOA Mortality Improvement **Scale MP-2019**.

Post Decrement

For Terminated Vested Employees, Healthy Retirees, and Beneficiaries:

SOA PubS-2010(B) Healthy Retiree Mortality Table with the 2010 base rates projected generationally from 2010 using the SOA Mortality Improvement **Scale MP-2019**.

For Disabled Retirees:

SOA PubS-2010 Disabled Retiree Mortality Table with the 2010 base rates **set forward five years** and projected generationally from 2010 using the SOA Mortality Improvement **Scale MP-2019**.

Mortality improvement projections to the valuation date represent current mortality and mortality improvement projections beyond the valuation date represent future mortality improvement.

⁹ Table name abbreviations from *Society of Actuaries Pub-2010 Public Retirement Plans Mortality Tables Report* published in January 2019. For example, *PubS-2010(B) Employee* translates to the Amount-Weighted Public Safety 2010 Below Median Employee Mortality Table.

¹⁰ Assumes 10% of deaths are duty-related and 90% are non-duty related.



Retirement Rates

Members need a minimum of 20 years of service in order to be eligible for normal retirement. The retirement rates below are for years of service greater than or equal to 20 years of service:

Age	Fire	Police
50	55%	60%
51-52	35%	40%
53-54	25%	40%
55-56	25%	50%
57-59	25%	40%
60	100%	100%

Terminated-vested members (members who terminate employment after attaining 20 years of service but prior to commencing pension benefits) are assumed to retire at age 50.

Termination of Employment

Sample termination rates are as follows:

Age	Fire	Police
20	15%	25%
25	7%	10%
30	5%	8%
35	2%	6%
40	2%	3.5%
45	1%	2%
50	0%	0%

Non-Vested Terminations

The employee contribution account balance is assumed to be paid on the valuation date for current non-vested terminated members and on the termination date for future non-vested terminations.

Disability Rates

Sample disability rates are as follows:

Age	Rates ¹¹
30	0.33%
40	0.76%
50	1.18%

¹¹ Assumes that 50% of disabilities are duty related and 50% are non-duty related. Also assumes that 5% of non-duty disabled members receive a 20% reduction in benefits through age 65 due to gainful employment.



Marital Status

70% assumed to be married with wives 3 years younger than husbands. Widows and widowers are not expected to re-marry in the future.

Form of Payment

Benefits are assumed to be paid as a life annuity with a 60% spousal death benefit taking into account the re-indexing of the spouse's supplemental benefit as provided in WV Code §8-22-26a.

Non-Spouse Beneficiaries

Pre-retirement death benefits are loaded by 6% and post-retirement death benefits are loaded by 1% to estimate the impact of benefits provided to non-spouse beneficiaries (children, parents, siblings).

Administrative Expenses

Total administrative expenses for the fiscal year are equal to the average of the administrative expenses for the prior two fiscal years, increased by 2.50% annually for inflation.

Future expenses are assumed to increase by the general inflation assumption and are adjusted for headcount.

Changes in Methods/Assumptions Since Prior Valuation

There were no changes in methods or assumptions reflected in this valuation.



Section XIII. Glossary

Actuarial Accrued Liability (AAL)

The difference between the Present Value of Future Benefits and the Present Value of Future Normal Costs or the portion of the present value of future benefits allocated to service before the valuation date in accordance with the actuarial cost method. Represents the present value of benefits expected to be paid from the plan in the future allocated to service prior to the date of the measurement.

Actuarial Assumptions

Estimates of future plan experience such as investment return, expected lifetimes and the likelihood of receiving a pension from the pension plan. Demographic, or "people" assumptions include rates of mortality, retirement and separation. Economic, or "money" assumptions, include expected investment return, inflation and salary increases.

Actuarial Cost Method

A procedure for allocating the Present Value of Future Benefits into the Present Value of Future Normal Costs and the Actuarial Accrued Liability. Also known as the "funding method".

Actuarial Value of Assets (AVA)

The value of the assets as of a given date, used by the actuary for valuation purposes. The AVA may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially determined contribution (ADC).

Actuarially Determined Contribution (ADC)

The employer's periodic determined contribution to a pension plan, calculated in accordance with the assumptions and methods used by the plan actuary.

Amortization Method

A procedure for payment of the Unfunded Actuarial Accrued Liability (UAAL) by means of periodic contributions of interest and principal. The components of the amortization payment for the UAAL includes the amortization period length, amortization payment increase (level dollar or level percentage of pay), and amortization type (closed or open).

Experience Gain/Loss

A measure of the difference between actuarial experience and experience anticipated by a set of actuarial assumptions during the period between two actuarial valuation dates, in accordance with the actuarial cost method being used.

Funded Ratio

The actuarial value of assets expressed as a percentage of the plan's actuarial accrued liability.

Market Value of Assets (MVA)

The value of the assets as of a given date held in the trust available to pay for benefits of the pension plan.



Normal Cost

That portion of the Present Value of Future Benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.

Present Value of Future Benefits (PVFB)

The present value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, non-retired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.

Present Value of Future Normal Cost (PVFNC)

The portion of the Present Value of Future Benefits (PVFB) allocated to future service.

Unfunded Actuarial Accrued Liabilities (UAAL)

The difference between the Actuarial Accrued Liability (AAL) and the Actuarial Value of Assets (AVA).