

**City of Parkland  
Police Officers Retirement Plan**

**Actuarial Valuation  
As of October 1, 2022**

**Determines the Contribution  
For the 2022/23 Fiscal Year**



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January 14, 2023

### Introduction

This report presents the results of the October 1, 2022 actuarial valuation for the City of Parkland Police Officers Retirement Plan. The report is based on the participant data and asset information provided by the pension plan administrator and, except for a cursory review for reasonableness including a comparison to the data provided for the previous valuation, we have not attempted to verify the accuracy of this information.

The primary purpose of this report is to provide a summary of the funded status of the plan as of October 1, 2022 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2022/23 plan year. In addition, this report provides a projection of the long-term funding requirements of the plan, statistical information concerning the assets held in the trust, statistical information concerning the participant population, and a summary of any recent plan changes.

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the future demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an *estimate* of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table IV-A. If any of the assumptions is changed, then the cost shown in this report will change accordingly. Likewise, if any of the assumptions is not completely realized, then the cost shown in this report will change in the future.

Certain assumptions play a bigger role than others in determining the cost of the post-employment pension benefits. In some cases, relatively small changes in a particular assumption can have a dramatic impact on the anticipated cost of benefits. Although a thorough analysis of the impact of such changes is beyond the scope of this report, Table I-B illustrates the impact that alternative long-term investment returns would have on the normal cost rate.

### Minimum Required Contribution

Table I-A shows the development of the minimum required contribution for the 2022/23 plan year. The minimum required contribution is \$89,744, which represents an increase of \$58,991 from the prior valuation.

Table I-C provides a breakdown of the sources of change in the minimum required contribution. Significantly, the minimum required contribution increased by \$41,495 due to investment losses and increased by \$17,496 due to other experience. The market value of assets lost 12.60% during the 2021/22 plan year, whereas a 6.50% annual investment return was required to maintain a stable contribution rate.



Chapter 112, Florida Statutes, sets forth the rules concerning the minimum required contribution for public pension plans within the state. Essentially, the City must contribute an amount equal to the annual normal cost of the plan plus an adjustment as necessary to reflect interest on any delayed payment of the contribution beyond the valuation date. On this basis, the City's 2022/23 minimum required contribution will be equal to \$89,744 and reduced by the portion of the Chapter 175/185 contribution that is allowed to be recognized during the 2022/23 plan year. As of the date of this report, the allowable portion of the Chapter 175/185 contribution is \$69,006 per year. However, this amount is subject to change depending on the amount of the Chapter 175/185 contribution for the 2022/23 plan year. Because the City has an advance employer contribution credit of \$54,270 as of October 1, 2022, when the expected Chapter 175/185 contribution is taken into account, the net amount due from the City is expected to be zero for the 2022/23 fiscal year, calculated as follows:

For the 2022/23 fiscal year

Minimum required contribution	\$89,744
Less expected Chapter 175/185 contrib.	(69,006)
Less advance contribution credit	<u>(54,270)</u>
Net amount due from the City	<u>\$0</u>

Based on the current assets, participant data, and actuarial assumptions and methods that are used to value the plan, the present-day value of the total long-term funding requirement is \$2,429,034 without regard to future administrative expenses. As illustrated in Table I-A, current assets are sufficient to cover \$2,013,587 of this amount and the employer's 2022/23 expected contribution will cover \$89,744 of this amount. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

Identification and Assessment of Risk

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the future demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an *estimate* of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table IV-A. If any of the assumptions is changed, then the cost shown in this report will change accordingly. Likewise, there is always a risk that, should these assumptions not be realized, the liabilities of the plan, the contributions required to fund the plan, and the funded status of the plan may be significantly different than the amounts shown in this report.

Although a thorough analysis of the risk of not meeting the assumptions is beyond the scope of this report, this discussion is intended to identify the significant risks faced by the plan. In some cases, a more detailed review of the risks, including numerical analysis, may be appropriate to help the plan sponsor and other interested parties assess the specific impact of not realizing certain assumptions. For example, Table I-B illustrates the impact that alternative long-term investment returns would have on the contribution rate. Note that this report is not intended to provide advice on the management or reduction of the identified risks nor is this report intended to provide investment advice.



The most significant risk faced by most defined benefit pension plans is investment risk, i.e. the risk that long-term investment returns will be less than assumed. Other related risks include a risk that, if the investments of the plan decline dramatically over a short period of time (such as occurred with many pension plans in 2008), the plan's assets may not have sufficient time to recover before benefits become due. Even if the assets of the plan grow in accordance with the assumed investment return over time, if benefit payments are expected to be large in the short-term (for example, if the plan provides an actuarial equivalent lump sum payment option and a large number of participants are expected to become entitled to such a lump sum in the near future), the plan's assets may not be sufficient to support such a high level of benefit payments. We have provided a 10-year projection of the expected benefit payments in Table III-D to help the Trustees in formulating an investment policy that is expected to provide an investment return that meets both the short- and long-term cash flow needs of the pension plan.

A second source of risk is the risk that the plan sponsor (or other contributing entities) will not make, or will not have the ability to make, the contributions that are required to keep the plan funded at a sufficient level.

Finally, an actuarial funding method has been used to allocate the gap between projected liabilities and assets to each year in the future. The contribution rate under some funding methods is higher during the early years of the plan and then is lower during the later years of the plan. Other funding methods provide for lower contribution rates initially, with increasing contribution rates over time. The Trustees have adopted the individual entry age normal funding method for this plan with level-dollar payments towards the unfunded accrued liability. A brief description of the actuarial funding method is provided in Table IV-A.

#### Contents of the Report

Tables I-D through I-H provide a detailed breakdown of various liability amounts by type of benefit and by participant group. Tables II-A through II-F provide information concerning the assets of the trust fund. Tables III-A through III-D provide statistical information concerning the plan's participant population. In particular, Table III-D gives a 10-year projection of the cash that is expected to be required from the trust fund in order to pay benefits to the current group of participants. Finally, Tables IV-A and IV-B provide a summary of the actuarial assumptions and methods that are used to value the plan's benefits as of October 1, 2022, as well as a summary of the changes that have occurred since the previous valuation report was prepared.

#### Certification

This actuarial valuation was prepared by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate and, in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material change in plan costs or required contribution rates have been taken into account in the valuation.



For the firm,

*Charles J. Carr/ug*

Charles T. Carr  
Consulting Actuary  
Southern Actuarial Services Company, Inc.

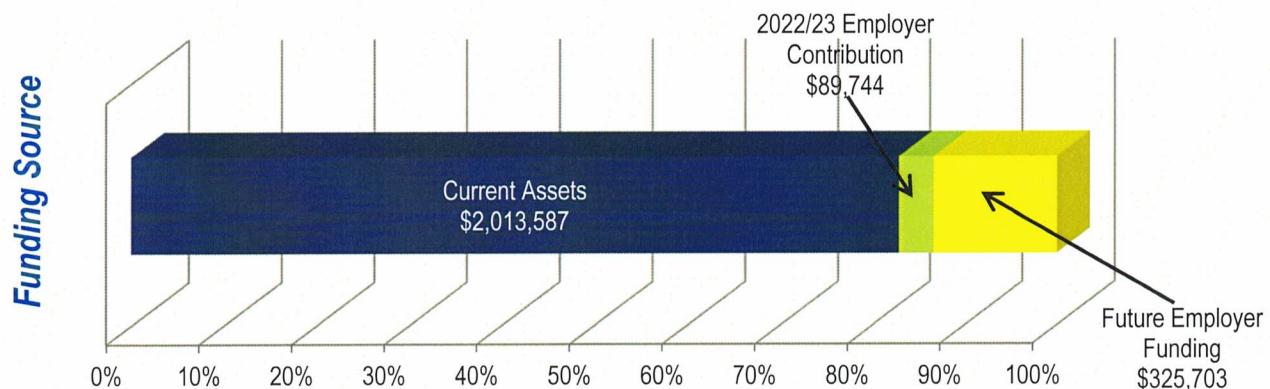
Enrolled Actuary No. 20-04927

*The individual above is a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.*



## Minimum Required Contribution

## Table I-A



\* without the expense loading

For the 2022/23 Plan Year

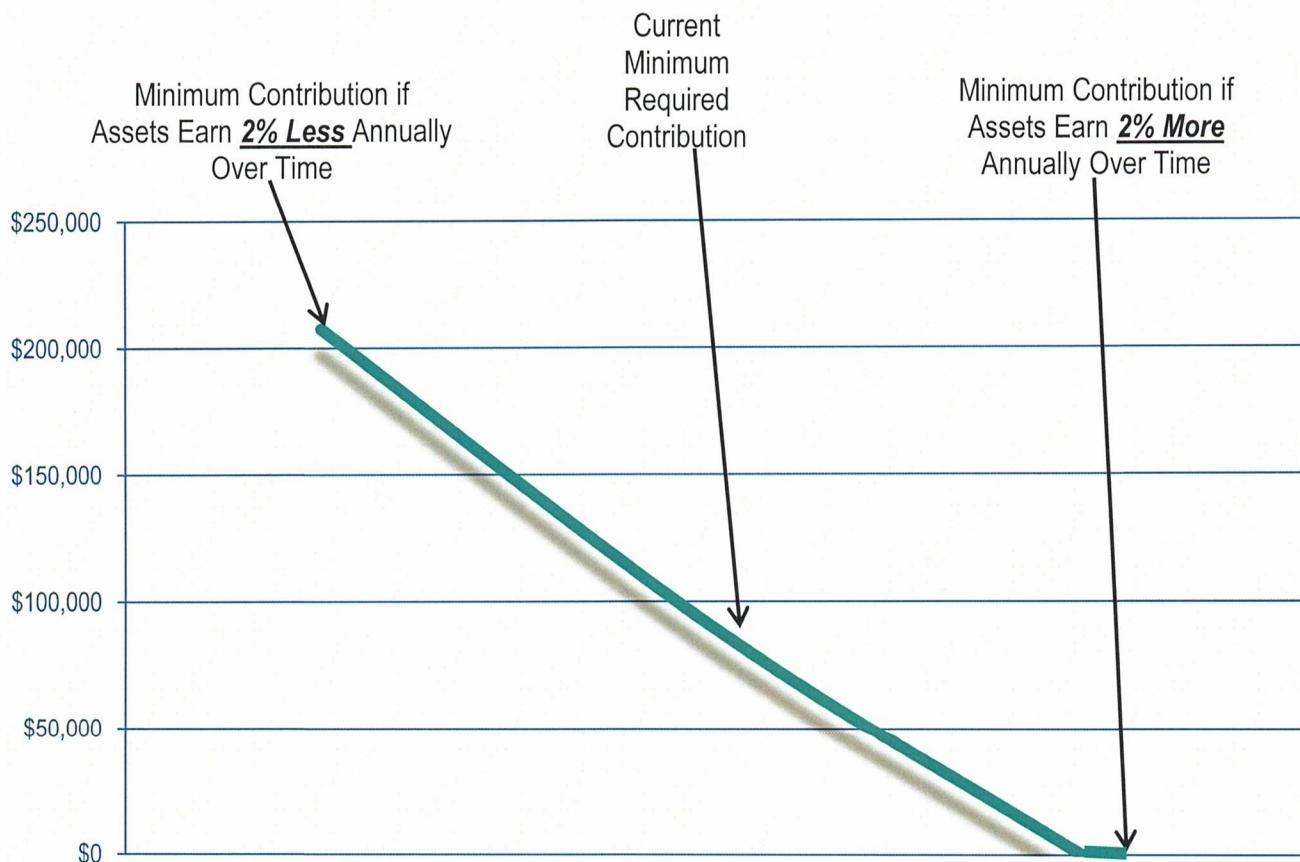
Entry Age Normal Cost	\$0
Unfunded Liability Amortization Payment	\$54,267
Expense Allowance	\$30,000
Expected Employee Contribution	\$0
	<hr/>
Interest Adjustment	\$84,267
	<hr/>
	\$5,477

**Minimum Required Contribution** \$89,744



## Sensitivity Analysis

Table I-B



*The line above illustrates the sensitivity of the minimum required contribution to changes in the long-term investment return.*



## Gain and Loss Analysis

## Table I-C

Previous minimum required contribution	\$30,753
Increase (decrease) due to investment gains and losses	\$41,495
Increase (decrease) due to change in expected amortization pmts.	\$0
Increase (decrease) due to other experience	\$17,496
Increase (decrease) due to plan amendments	\$0
Increase (decrease) due to actuarial assumption changes	\$0
Increase (decrease) due to actuarial method changes	\$0
Current minimum required contribution	<u><u>\$89,744</u></u>



## Present Value of Future Benefits

## Table I-D

	<u>Old Assumptions w/o Amendment</u>	<u>Old Assumptions w/ Amendment</u>	<u>New Assumptions w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Due a Refund of Contributions</u></i>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Deferred Beneficiaries</u></i>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Retired Participants</u></i>			
Service retirements	\$1,887,444	\$1,887,444	\$1,887,444
Disability retirements	\$541,590	\$541,590	\$541,590
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	<b>\$2,429,034</b>	<b>\$2,429,034</b>	<b>\$2,429,034</b>
<i><u>Grand Total</u></i>	<b><u>\$2,429,034</u></b>	<b><u>\$2,429,034</u></b>	<b><u>\$2,429,034</u></b>
Present Value of Future Payroll	\$0	\$0	\$0
Present Value of Future Employee Contribs.	\$0	\$0	\$0
Present Value of Future Employer Contribs. (without the expense loading)	\$415,447	\$415,447	\$415,447



## Present Value of Accrued Benefits

## Table I-E

	<u>Old Assumptions w/o Amendment</u>	<u>Old Assumptions w/ Amendment</u>	<u>New Assumptions w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Due a Refund of Contributions</u></i>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Deferred Beneficiaries</u></i>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Retired Participants</u></i>			
Service retirements	\$1,887,444	\$1,887,444	\$1,887,444
Disability retirements	\$541,590	\$541,590	\$541,590
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	<b>\$2,429,034</b>	<b>\$2,429,034</b>	<b>\$2,429,034</b>
<i><u>Grand Total</u></i>	<b><u>\$2,429,034</u></b>	<b><u>\$2,429,034</u></b>	<b><u>\$2,429,034</u></b>
<i><u>Funded Percentage</u></i>	85.13%	85.13%	85.13%
(Note: Funded percentage is equal to the ratio of the usable portion of the market value of assets divided by the present value of accrued benefits.)			



## Present Value of Vested Benefits

## Table I-F

	<u>Old Assumptions w/o Amendment</u>	<u>Old Assumptions w/ Amendment</u>	<u>New Assumptions w/ Amendment</u>
<i>Actively Employed Participants</i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i>Deferred Vested Participants</i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i>Due a Refund of Contributions</i>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i>Deferred Beneficiaries</i>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i>Retired Participants</i>			
Service retirements	\$1,887,444	\$1,887,444	\$1,887,444
Disability retirements	\$541,590	\$541,590	\$541,590
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	<b>\$2,429,034</b>	<b>\$2,429,034</b>	<b>\$2,429,034</b>
<i>Grand Total</i>	<b><u>\$2,429,034</u></b>	<b><u>\$2,429,034</u></b>	<b><u>\$2,429,034</u></b>



## Entry Age Normal Accrued Liability

## Table I-G

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Due a Refund of Contributions</u></i>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Deferred Beneficiaries</u></i>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<i><u>Retired Participants</u></i>			
Service retirements	\$1,887,444	\$1,887,444	\$1,887,444
Disability retirements	\$541,590	\$541,590	\$541,590
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	<b>\$2,429,034</b>	<b>\$2,429,034</b>	<b>\$2,429,034</b>
<i><u>Grand Total</u></i>	<b><u>\$2,429,034</u></b>	<b><u>\$2,429,034</u></b>	<b><u>\$2,429,034</u></b>
less Actuarial Value of Assets	(\$2,013,587)	(\$2,013,587)	(\$2,013,587)
<i><u>Unfunded Accrued Liability</u></i>	<b><u>\$415,447</u></b>	<b><u>\$415,447</u></b>	<b><u>\$415,447</u></b>



## Unfunded Liability Bases

## Table I-H

<u>Description</u>	<u>Original Amount</u>	<u>Outstanding Balance</u>	<u>Amortization Payment</u>	<u>Years Rem.</u>
	<i>Total</i>	<b>\$415,447</b>	<b>\$54,267</b>	
Initial UAAL Base	\$415,447	\$415,447	\$54,267	10



## Actuarial Value of Assets

## Table II-A

Market Value of Assets as of October 1, 2022	\$2,067,857
Minus advance employer contributions	(\$54,270)
Minus excess Chapter 175/185 contributions	\$0
<b>Actuarial Value of Assets as of October 1, 2022</b>	<b><u>\$2,013,587</u></b>

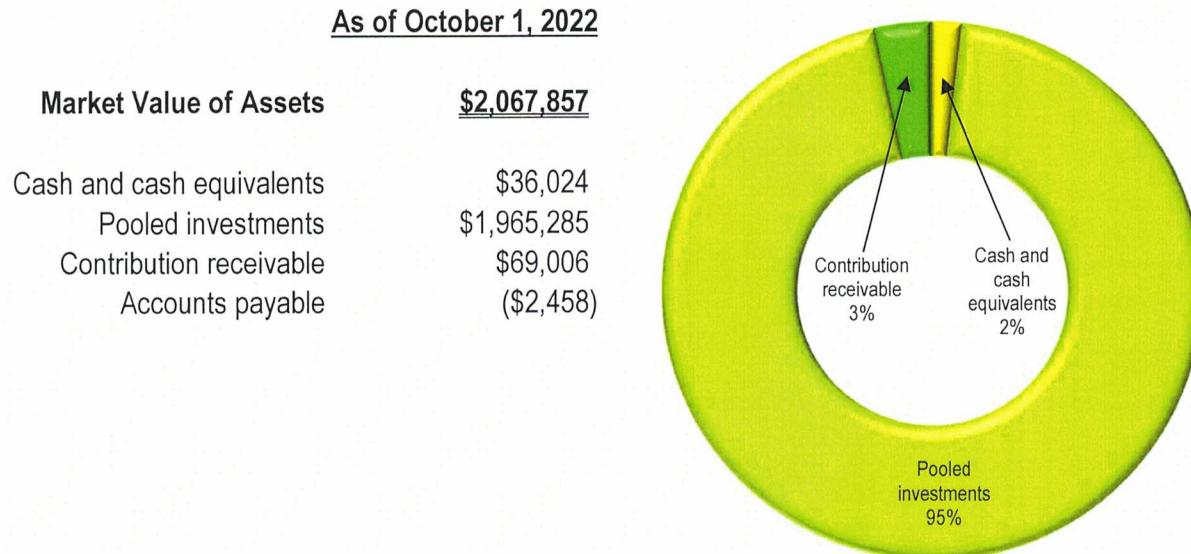
**Historical Actuarial Value of Assets**

October 1, 2013	\$1,952,986
October 1, 2014	\$2,062,405
October 1, 2015	\$1,961,246
October 1, 2016	\$2,054,583
October 1, 2017	\$2,229,766
October 1, 2018	\$2,250,481
October 1, 2019	\$2,245,527
October 1, 2020	\$2,276,940
October 1, 2021	\$2,488,963
October 1, 2022	\$2,013,587



## Market Value of Assets

## Table II-B



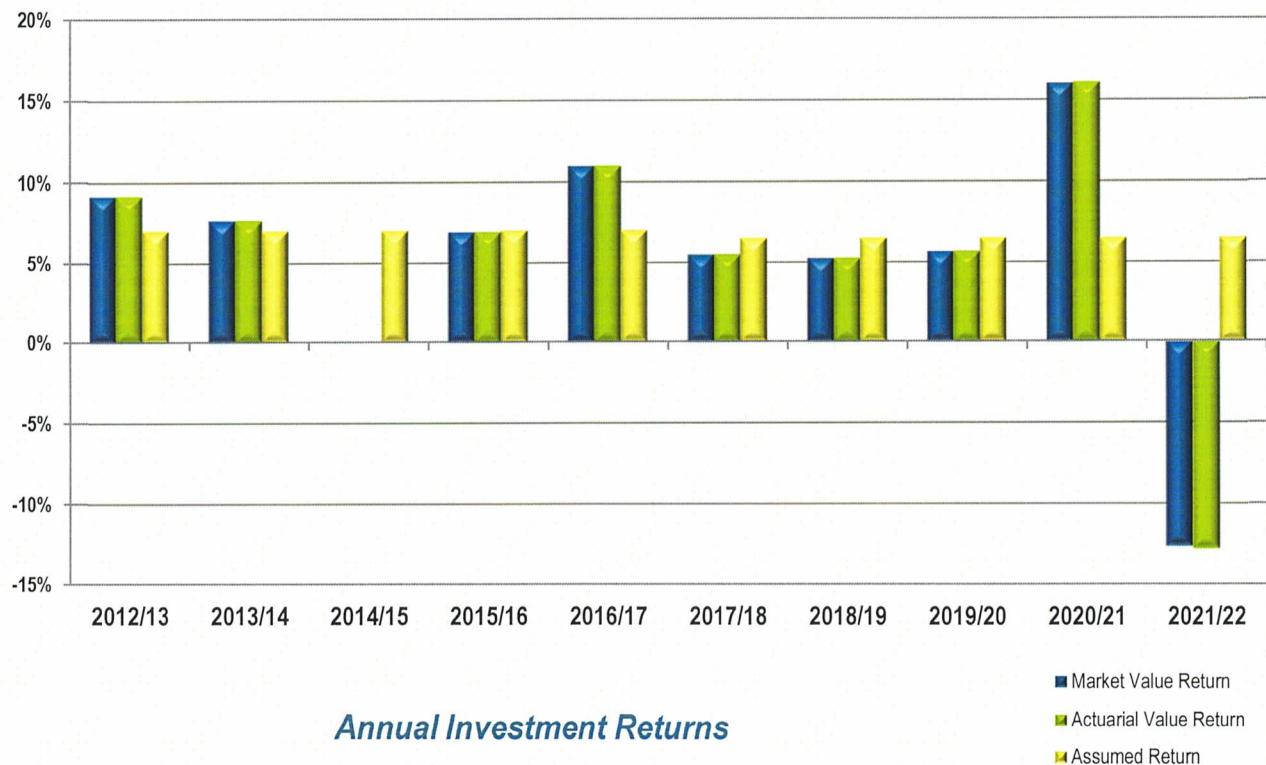
Historical Market Value of Assets

October 1, 2013	\$1,952,986
October 1, 2014	\$2,062,405
October 1, 2015	\$1,961,246
October 1, 2016	\$2,054,583
October 1, 2017	\$2,229,766
October 1, 2018	\$2,250,481
October 1, 2019	\$2,250,661
October 1, 2020	\$2,276,940
October 1, 2021	\$2,504,980
October 1, 2022	\$2,067,857



## Investment Return

## Table II-C



Plan	Market Value	Actuarial Value	Assumed
Year	Return	Return	Return
2012/13	9.17%	9.17%	7.00%
2013/14	7.66%	7.66%	7.00%
2014/15	0.01%	0.01%	7.00%
2015/16	6.95%	6.95%	7.00%
2016/17	10.99%	10.99%	7.00%
2017/18	5.49%	5.49%	6.50%
2018/19	5.27%	5.27%	6.50%
2019/20	5.68%	5.68%	6.50%
2020/21	16.02%	16.07%	6.50%
2021/22	-12.60%	-12.78%	6.50%
10yr. Avg.	5.20%	5.18%	6.75%



## Asset Reconciliation

## Table II-D

	<u>Market Value</u>	<u>Actuarial Value</u>
As of October 1, 2021	\$2,504,980	\$2,488,963
<i>Increases Due To:</i>		
Employer Contributions	\$0	\$0
Chapter 175/185 Contributions	\$389,670	\$389,670
Employee Contributions	\$0	\$0
<b>Total Contributions</b>	<b>\$389,670</b>	<b>\$389,670</b>
Interest and Dividends	\$0	\$0
Realized Gains (Losses)	\$0	\$0
Unrealized Gains (Losses)	(\$301,843)	
<b>Total Investment Income</b>	<b>(\$301,843)</b>	<b>(\$628,049)</b>
Other Income	\$0	
<b>Total Income</b>	<b>\$87,827</b>	<b>(\$238,379)</b>
<i>Decreases Due To:</i>		
Monthly Benefit Payments	(\$170,036)	(\$170,036)
Refund of Employee Contributions	\$0	\$0
Transfer to Share Plan	(\$320,664)	
<b>Total Benefit Payments</b>	<b>(\$490,700)</b>	<b>(\$170,036)</b>
Investment Expenses	(\$5,542)	
Administrative Expenses	(\$28,708)	(\$28,708)
Advance Employer Contribution		(\$38,253)
Excess Chapter 175/185 Contribution		\$0
<b>Total Expenses</b>	<b>(\$524,950)</b>	<b>(\$236,997)</b>
<b>As of October 1, 2022</b>	<b><u>\$2,067,857</u></b>	<b><u>\$2,013,587</u></b>



## Historical Trust Fund Detail

## Table II-E

Income

Plan	Employer	Chapter	Employee		Interest / Dividends	Realized Gains / Losses	Unrealized Gains / Losses	Other Income
Year	Contribs.	Contribs.	Contribs.					
2012/13	\$144,592	\$216,205	\$0		\$0	\$0	\$162,590	\$0
2013/14	\$77,179	\$233,777	\$0		\$0	\$0	\$148,145	\$0
2014/15	\$9,187	\$254,476	\$0		\$0	\$0	\$293	\$0
2015/16	\$75,994	\$281,953	\$0		\$0	\$0	\$134,955	\$0
2016/17	\$62,554	\$271,388	\$0		\$0	\$0	\$228,333	\$0
2017/18	\$14,100	\$295,774	\$0		\$0	\$0	\$125,025	\$0
2018/19	\$0	\$323,709	\$0		\$0	\$0	\$120,860	\$0
2019/20	\$21,578	\$339,340	\$0		\$0	\$0	\$130,288	\$0
2020/21	\$0	\$373,255	\$0		\$0	\$0	\$360,486	\$0
2021/22	\$0	\$389,670	\$0		\$0	\$0	-\$301,843	\$0

Expenses

Plan	Benefit	Contrib.	Admin.	Invest.		Transfer to	Advance	Excess
Year	Payments	Refunds	Expenses	Expenses		Share Plan	Employer	Chapter
2012/13	\$142,278	\$0	\$37,121	\$0		\$147,199	\$0	\$0
2013/14	\$145,124	\$0	\$39,787	\$0		\$164,771	\$0	\$0
2014/15	\$148,026	\$0	\$31,619	\$0		\$185,470	\$0	\$0
2015/16	\$150,987	\$0	\$35,631	\$0		\$212,947	\$0	\$0
2016/17	\$154,006	\$0	\$25,480	\$5,224		\$202,382	\$0	\$0
2017/18	\$157,087	\$0	\$24,897	\$5,432		\$226,768	\$0	\$0
2018/19	\$160,228	\$0	\$24,093	\$5,365		\$254,703	\$5,134	\$0
2019/20	\$163,433	\$0	\$25,816	\$5,344		\$270,334	-\$5,134	\$0
2020/21	\$166,702	\$0	\$28,809	\$5,941		\$304,249	\$16,017	\$0
2021/22	\$170,036	\$0	\$28,708	\$5,542		\$320,664	\$38,253	\$0

Note: Information was not available to separate the investment expenses from the investment income nor was information available to separate the investment income by source.



## Other Reconciliations

## Table II-F

Advance Employer Contribution

Advance Employer Contribution as of October 1, 2021	\$16,017
Additional Employer Contribution	\$69,006
Minimum Required Contribution	<u>(\$30,753)</u>
Net Increase in Advance Employer Contribution	\$38,253
Advance Employer Contribution as of October 1, 2022	<u><u>\$54,270</u></u>

Excess Chapter 175/185 Contribution

Excess Chapter 175/185 Contribution as of October 1, 2021	\$0
Additional Chapter 175/185 Contribution	\$389,670
Transfer to Share Plan	<u>(\$320,664)</u>
Allowable Chapter 175/185 Contribution	<u><u>(\$69,006)</u></u>
Net Increase in Excess Chapter 175/185 Contribution	\$0
Excess Chapter 175/185 Contribution as of October 1, 2022	<u><u>\$0</u></u>



## Allowable Chapter 175/185 Contribution

## Table II-G

1997 Base Amounts

Chapter 175 Regular Distribution	\$0
Chapter 175 Supplemental Distribution	\$0
Chapter 185 Distribution	\$0

Qualifying Benefit Improvements

Ordinance 2006-45	\$69,006
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## Historical Chapter 175/185 Contributions

## Table II-H

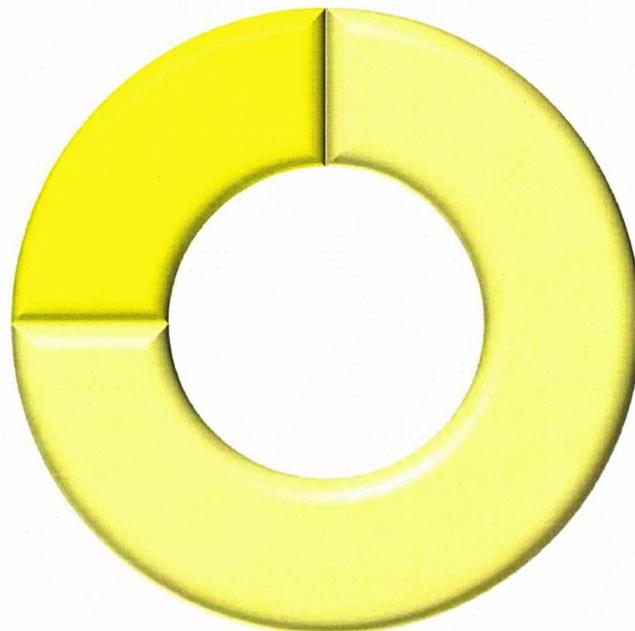
<i>Total Accumulated Excess Chapter 175/185 Contribution</i>		<b>\$0</b>
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	<u>Chapter 175</u>	<u>Chapter 175</u>	<u>Chapter 185</u>	<u>Allowable</u>
	<u>Regular</u>	<u>Supplemental</u>	<u>Distribution</u>	<u>Amount</u>
1998 Distribution	\$0	\$0	\$0	\$0
1999 Distribution	\$0	\$0	\$0	\$0
2000 Distribution	\$0	\$0	\$0	\$0
2001 Distribution	\$0	\$0	\$0	\$0
2002 Distribution	\$0	\$0	\$0	\$0
2003 Distribution	\$0	\$0	\$0	\$0
2004 Distribution	\$0	\$0	\$88,495	\$0
2005 Distribution	\$0	\$0	\$106,003	\$0
2006 Distribution	\$0	\$0	\$136,419	(\$263,504)
2007 Distribution	\$0	\$0	\$138,420	(\$69,006)
2008 Distribution	\$0	\$0	\$167,707	(\$69,006)
2009 Distribution	\$0	\$0	\$181,873	(\$69,006)
2010 Distribution	\$0	\$0	\$170,714	(\$69,006)
2011 Distribution	\$0	\$0	\$193,256	(\$69,006)
2012 Distribution	\$0	\$0	\$216,205	(\$69,006)
2013 Distribution	\$0	\$0	\$233,777	(\$69,006)
2014 Distribution	\$0	\$0	\$254,476	(\$69,006)
2015 Distribution	\$0	\$0	\$281,953	(\$69,006)
2016 Distribution	\$0	\$0	\$271,388	(\$69,006)
2017 Distribution	\$0	\$0	\$295,774	(\$69,006)
2018 Distribution	\$0	\$0	\$323,709	(\$69,006)
2019 Distribution	\$0	\$0	\$339,340	(\$69,006)
2020 Distribution	\$0	\$0	\$373,255	(\$69,006)
2021 Distribution	\$0	\$0	\$389,670	(\$69,006)
Transfer to Share Plan				(\$2,863,840)



## Summary of Participant Data

## Table III-A

**Participant Distribution by Status**As of October 1, 2022Actively Employed Participants

Active Participants	0
DROP Participants	0

Inactive Participants

Deferred Vested Participants	0
Due a Refund of Contributions	0
Deferred Beneficiaries	0

Participants Receiving a Benefit

Service Retirements	3
Disability Retirements	1
Beneficiaries Receiving	0

**Total Participants****4**Number of Participants Included in Prior Valuations

	Active	DROP	Inactive	Retired	Total
October 1, 2013	0	0	0	4	4
October 1, 2014	0	0	0	4	4
October 1, 2015	0	0	0	4	4
October 1, 2016	0	0	0	4	4
October 1, 2017	0	0	0	4	4
October 1, 2018	0	0	0	4	4
October 1, 2019	0	0	0	4	4
October 1, 2020	0	0	0	4	4
October 1, 2021	0	0	0	4	4
October 1, 2022	0	0	0	4	4



## Data Reconciliation

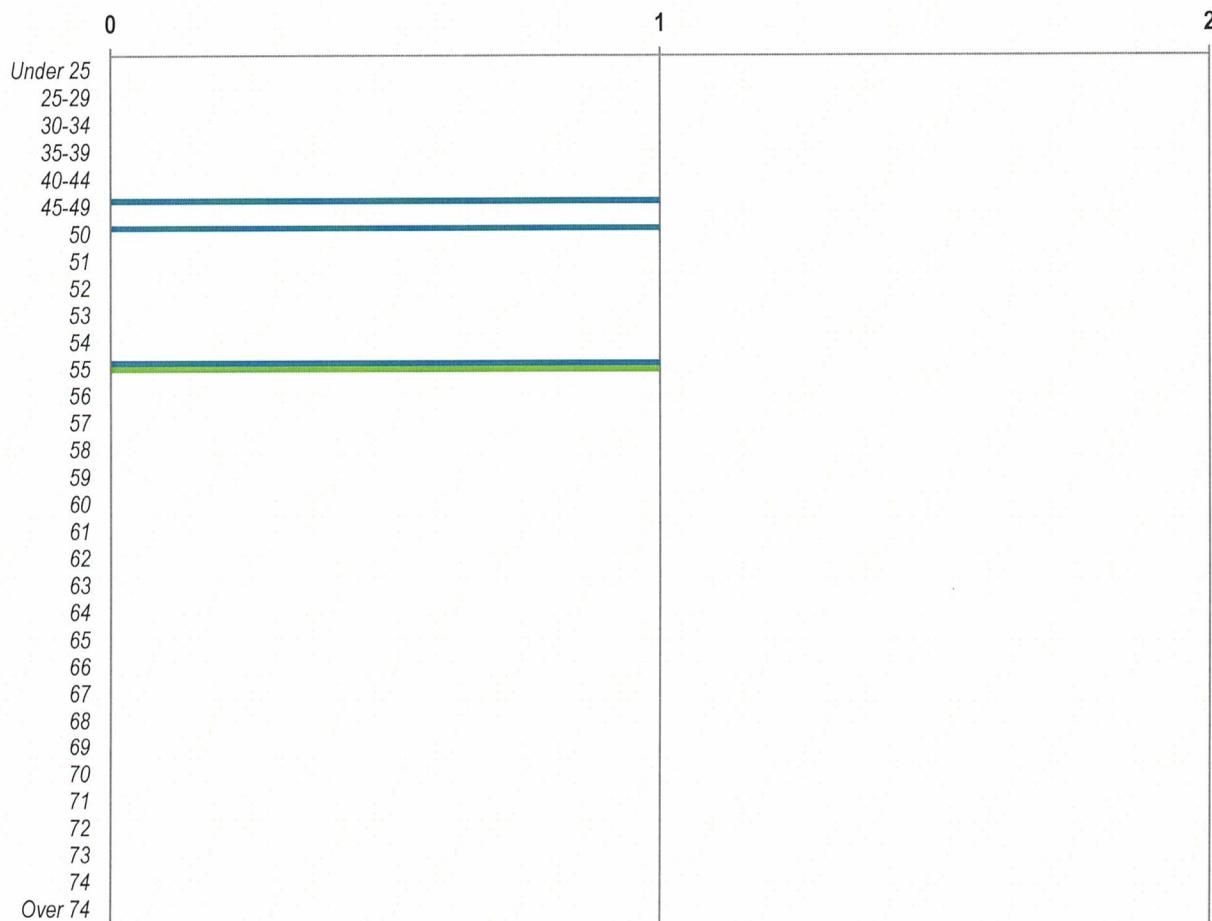
## Table III-B

	<u>Active</u>	<u>DROP</u>	<u>Deferred Vested</u>	<u>Due a Refund</u>	<u>Def. Benef.</u>	<u>Service Retiree</u>	<u>Disabled Retiree</u>	<u>Benef. Rec'v.</u>	<u>Total</u>
<u>October 1, 2021</u>	0	0	0	0	0	3	1	0	4
<u>Change in Status</u>									
Re-employed									
Terminated									
Retired									
<u>Participation Ended</u>									
Transferred Out									
Cashed Out									
Died									
<u>Participation Began</u>									
Newly Hired									
Transferred In									
New Beneficiary									
<u>Other Adjustment</u>									
<u>October 1, 2022</u>	0	0	0	0	0	3	1	0	4



## Inactive Participant Data

## Table III-C

*Age at Retirement*

- Service Retirements
- Disability Retirements
- DROP Participants

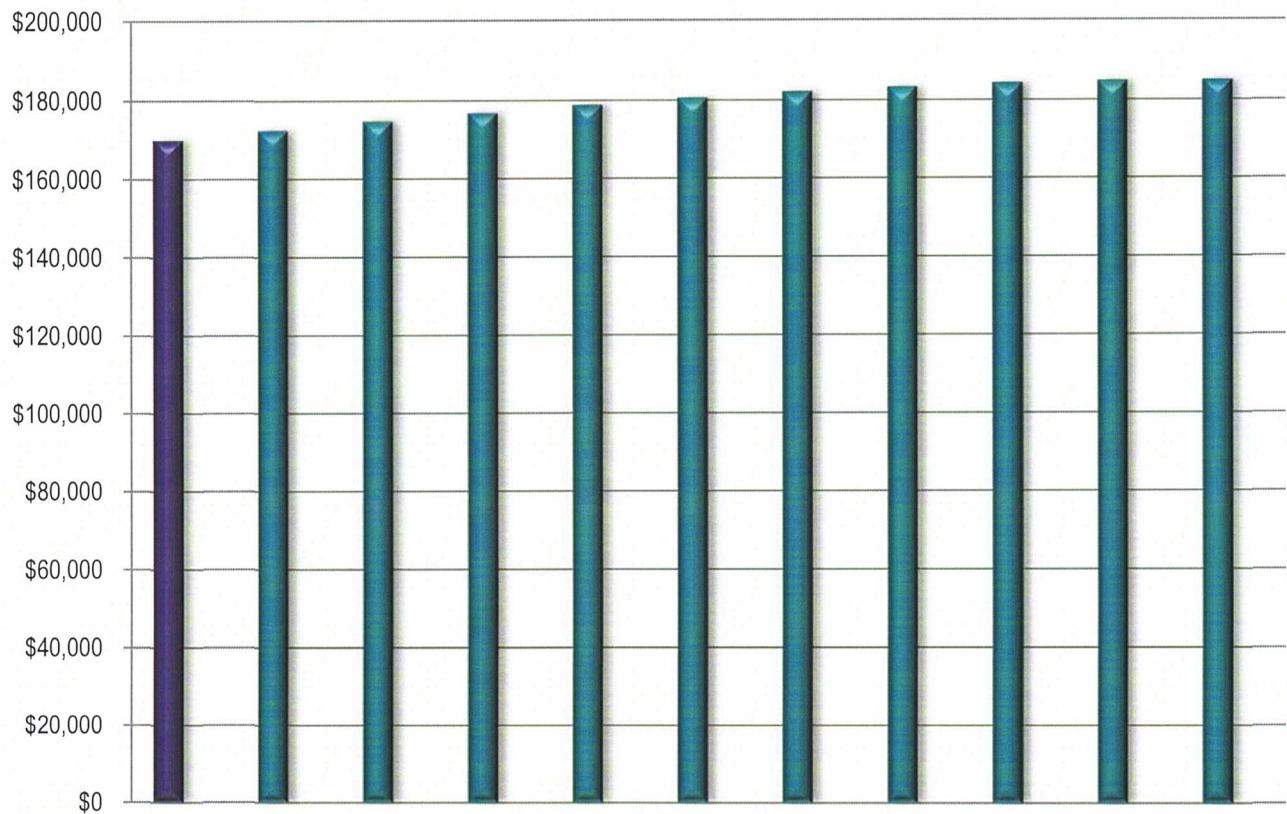
*Average Monthly Benefit*

Service Retirements	\$3,735.33
Disability Retirements	\$3,247.00
Beneficiaries Receiving	<i>Not applicable</i>
DROP Participants	<i>Not applicable</i>
Deferred Vested Participants	<i>Not applicable</i>
Deferred Beneficiaries	<i>Not applicable</i>



## Projected Benefit Payments

## Table III-D

Actual

For the period October 1, 2021 through September 30, 2022 \$170,036

Projected

For the period October 1, 2022 through September 30, 2023	\$172,439
For the period October 1, 2023 through September 30, 2024	\$174,725
For the period October 1, 2024 through September 30, 2025	\$176,868
For the period October 1, 2025 through September 30, 2026	\$178,835
For the period October 1, 2026 through September 30, 2027	\$180,597
For the period October 1, 2027 through September 30, 2028	\$182,119
For the period October 1, 2028 through September 30, 2029	\$183,364
For the period October 1, 2029 through September 30, 2030	\$184,290
For the period October 1, 2030 through September 30, 2031	\$184,857
For the period October 1, 2031 through September 30, 2032	\$185,020



## Summary of Actuarial Methods and Assumptions

## Table IV-A

*NOTE: The following assumptions and methods have been selected and approved by the Board of Trustees based in part on the advice of the plan's enrolled actuary in accordance with the authority granted to the Board under the pension ordinances and State law.*

**1. Actuarial Cost Method**

Individual entry age normal cost method (nominally)

**2. Amortization Method**

The unfunded accrued liability has been amortized as a level-dollar payment over a 10-year period.

**3. Asset Method**

The actuarial value of assets is equal to the market value of assets.

**4. Interest (or Discount) Rate**

6.50% per annum

**5. Decrements**

- Post-retirement mortality:

For non-disabled retirees, sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Healthy Retiree Mortality Table for public safety employees (Below Median table for males), with full generational improvements in mortality using Scale MP-2018 and with ages set forward one year; for disabled retirees, sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Disabled Retiree Mortality Table (80% general employee rates plus 20% public safety employee rates), with full generational improvements in mortality using Scale MP-2018

**6. Expenses**

Administrative expenses payable from the plan have been assumed to be \$30,000 per year. In addition, the interest rate set forth in item 3. above is assumed to be net of investment expenses and commissions.



## Changes in Actuarial Methods and Assumptions

## Table IV-B

No assumptions or methods have been changed since the completion of the previous valuation.

*The following additional assumption and method changes were made during the past 10 years:*

- (1) *Effective October 1, 2021, the administrative expense loading was increased from \$25,000 per year to \$30,000 per year.*
- (2) *Effective October 1, 2020, the mortality basis was changed from the RP-2000 Combined Mortality Table with generational improvements in mortality using Scale BB to selected PUB-2010 Mortality Tables with generational improvements in mortality using Scale MP-2018.*
- (3) *Effective October 1, 2018, the assumed administrative expenses were decreased from \$30,000 per year to \$25,000 per year.*
- (4) *Effective October 1, 2017, the interest (or discount) rate was decreased from 7.00% per annum to 6.50% per annum.*
- (5) *Effective October 1, 2017, the assumed administrative expenses were decreased from \$35,000 per year to \$30,000 per year.*
- (6) *Effective October 1, 2016, the mortality basis was changed from a 2015 projection of the RP-2000 Mortality Table for annuitants to a full generational projection using Scale BB of the RP-2000 Combined Mortality Table as required by State law.*
- (7) *Effective October 1, 2016, the assumed administrative expenses were increased from \$25,000 per year to \$35,000 per year.*
- (8) *Effective October 1, 2013, the mortality basis was changed from the RP-2000 Mortality Table for annuitants, projected to 2007 by Scale AA, to the RP-2000 Mortality Table for annuitants, projected to 2015 by Scale AA, both as published by the Internal Revenue Service (IRS) for purposes of Internal Revenue Code (IRC) section 430.*
- (9) *Effective October 1, 2012, the administrative expense assumption was reduced from \$40,000 per year to \$25,000 per year.*

