CITY OF EAST PROVIDENCE RHODE ISLAND

POLICE AND FIRE FIGHTERS RETIREMENT SYSTEM

AS OF OCTOBER 31, 2015

Prepared by:

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CITY OF EAST PROVIDENCE, RHODE ISLAND

POLICE AND FIRE FIGHTERS RETIREMENT SYSTEM

ACTUARIAL VALUATION REPORT AS OF OCTOBER 31, 2015

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CITY OF EAST PROVIDENCE, RHODE ISLAND

ACTUARIAL VALUATION REPORT AS OF OCTOBER 31, 2015

POLICE AND FIRE FIGHTERS RETIREMENT SYSTEM

1. Highlights of Report			
· · ·	2013 - 2014	<u>2014 - 2015</u>	2015 - 2016
Customary Contribution as of October 31	\$ 5,436,880	\$ 5,617,511	\$ 5,921,652
Customary Contribution as Percentage of Total Payroll	42.9%	40.5%	40.5%
City's Actual Annual Contribution	\$ 5,606,148 (Actual)	\$ 6,435,589 (Actual)	\$ 6,500,000 (Estimated)
Plan Assets as of October 31	(Actual)	(Actual)	(Estimated)
Market Value Actuarial Value	\$ 110,946,970 \$ 107,769,539	\$ 116,651,846 \$ 111,060,482	\$ 115,826,192 \$ 113,803,022
Funded Status of Accrued Benefits - Based of	on:		
Market Value of Assets Actuarial Value of Assets	73.2% 71.1%	72.8% 69.3%	68.6% 67.4%
Funded Status of Actuarial Accrued Liability	y – Based on:		
Market Value of Assets Actuarial Value of Assets	64.2% 62.3%	64.5 % 61.4 %	61.1% 60.0%
Number of Participants			
Active Service Retirement Disability Retirement Surviving Spouses Terminated with Vesting Total	$ \begin{array}{r} 186 \\ 152 \\ 42 \\ 51 \\ \hline 0 \\ \hline 431 \end{array} $	$ \begin{array}{r} 195 \\ 157 \\ 43 \\ 41 \\ \underline{0} \\ 436 \end{array} $	$ \begin{array}{r} 205 \\ 161 \\ 45 \\ 40 \\ \hline 451 \end{array} $
Total Payroll of Active Participants	\$ 12,666,939	\$ 13,861,789	\$ 14,628,273
Average Age of Active Participants	43.3	42.3	41.0
Average Service of Active Participants	15.5	14.8	14.0

2. Summary of Report

This report presents the results of the annual actuarial valuation of the City of East Providence, Rhode Island Police and Fire Fighters Retirement Plan as of October 31, 2015. The valuation has been requested by the Police and Fire Fighters Retirement Board. This is the twelfth annual actuarial valuation of the Retirement System performed by Fallon Pension Actuaries, Inc. The valuation is based on the actuarial methods and assumptions as documented in this report, which were substantially revised in 2012. Included in the report are a statistical summary of participants, financial history of the pension fund, information on investment performance, and an outline of the principal plan provisions. The City's customary contribution ("ARC" amount) determined for the current 2015- 2016 fiscal year is equal to \$5,921,652. This represents approximately 40.5% of the total payroll of active participants of the plan. Based on the City's most recent budgeted contribution level, it is expected the City will contribute in the range of at least \$6,000,000 to \$6,500,000 for the current year.

The pension fund market value as of October 31, 2015 was \$ 115,826,192. This market value includes a deposit/transfer of funds which was received from the U.S. Department of Justice in early 2013 for benefit of the Police in the amount of \$ 49,200,000. For purposes of the annual actuarial valuation of a pension plan, it is typical to use an adjusted asset value in order to smooth out year to year fluctuations in market value of assets. For this year's valuation, we have used an asset method that incorporates a five year average of realized and unrealized investment gains and losses to accomplish this purpose. The resulting actuarial value of plan assets is further limited, if necessary, to not more than a corridor value of 120% of the market value. The resulting amount of actuarial value of assets used for this annual valuation is equal to \$ 113,803,022.

There have been 3 items of note and change included in the results with impact on the City's ARC amount this year. First, negotiated pay raises through 2017 from recently completed collective bargaining agreements allow for a reduction in the actuarial assumption for annual future pay increases from 4.25% per year to 4.00% per year. Second, the employee contribution rate for Fire Fighters has been increased from 8% of pay to 9% of pay in 2014. The same increase has begun for Police beginning this year in 2015. Finally, new Fire Fighters hired after 2013 will be provided with a new plan of retirement benefits, based on retirement age 50 after 25 years of service, 2.25% annual non-compounded COLA, final 3 year average earnings base, 70% of pay maximum pension, and a vested

pension after 10 years payable at age 60.

The appendices to this report contain information required for disclosure in accordance with Statement No. 25 of the Governmental Accounting Standards Board ("GASB"). Two additional schedules are included in the appendix which present historical information on the funding progress of the pension plan (Appendix C) and employer contributions (Appendix D).

3. Participant Data

The Participant data for the annual actuarial valuation was supplied to us by the City of East Providence. The data was not audited by us, but has been checked for reasonableness with prior year information. Exhibit 3 presents a distribution of active participants of the plan by age and completed years of service as of October 31, 2015. There are a total of 205 active participants with an average age of 41.0 and average years of completed service of 14.0. The following chart shows a breakdown of the active members between Police and Fire Fighters.

	Number of Active Participants	Average Attained Age	Average Years of Service
Police	93	40.8	13.8
Fire Fighters	112	41.2	14.2

There are a total of 246 retired participants and beneficiaries receiving benefits, including 161 service retirements, 45 disability retirements and 40 spouses of deceased participants. Total plan membership increased from 436 on October 31, 2014, to 451 on October 31, 2015. The reconciliation of participants through October 31, 2015 is shown in Exhibit 4 (pages 12 & 13).

4. Pension Plan Provisions

The principal benefit provisions of the plan as of October 31, 2015 used in the valuation are summarized in Exhibit 8. This valuation reflects the plan's benefit formula with accrual of 2.5% of final salary for the first 24 years of service, 2% of final salary for the next 4 years of service, and 1% of final salary for the last two years, up to 30 years of total service. The valuation also reflects Police and Fire Fighter

contributions at 9% of pay. Additional pension benefits related to the inclusion of holiday pay in the final salary (14 days for Policemen and Fire Fighters) are also reflected as of October 31, 2015. As noted above, new retirement benefit provisions will be provided to Fire Fighters hired after 2013.

5. Plan Assets and Investment Performance

The value of assets as of October 31, 2015 was provided in financial statements from the Trustee, Bank of America. For the year ending October 31, 2015, the market value return on plan assets was approximately +1.8%. For the five year period ending on the valuation date, the compound equivalent rate of return based on market value was +7.0% per year. For the three year period ending on the valuation date, the compound equivalent rate of return based on market value was +8.2% per year. The return on valuation assets was less than the assumed rate of return used to perform the valuation, resulting in an actuarial loss from investments. The following chart presents the annual rate of return on market value of the assets for the last 5 years ending on October 31st.

Year Ending October 31st	Annual Rate of Return on Market Value
2011	3.1%
2012	7.8
2013	14.8
2014	8.4
2015	1.8
Compound Equivalent I	Last 5 Years: <u>7.0%</u>
Annual Rate of Return I	Last 4 Years: <u>8.1%</u>
I	Last 3 Years: <u>8.2%</u>

As previously mentioned, the asset valuation method incorporates a smoothing technique, which averages over the prior four year period, realized and unrealized investment gains and losses. The market value of assets as of October 31, 2015 was \$ 115,826,192. The actuarial value of assets was equal to \$ 113,803,022, which is subject to the corridor limit of 120% of market value (application not

needed in 2015). The determination of valuation assets as of October 31, 2015 is shown in Exhibit 7. As mentioned previously, the value Plan assets as of October 31, 2013 reflected a deposit/transfer from the U.S. Department of Justice of \$49.2 million received and deposited in March, 2013.

6. Actuarial Cost Method and Assumptions

The City's contributions are calculated using the entry age normal actuarial cost method. This actuarial cost method has been revised from the projected unit credit actuarial cost method used in the previous years before 2013. A description of this cost method and the assumptions used to perform this actuarial valuation are presented in Exhibit 9. The asset valuation method was previously revised, with a new corridor limit included, such that the actuarial value of assets may not exceed 120% of the market value of assets. This new limit was not applicable for the actuarial value of assets in 2015.

The actuarial assumptions have also been substantially revised from those used in the prior actuarial valuations of the pension plan before 2012. The revised actuarial assumptions have resulted from an Experience Study which was required by Chapter 64 of the recently passed Rhode Island Security Act of 2012. In addition to the Experience Study for the City of East Providence Police and Fire Fighters Pension Plan, the State of Rhode Island Municipal Employees' Pension Plan has undergone changes to actuarial assumptions during 2012. These later changes have also been considered in setting the revised assumptions for 2012, 2013, 2014 and 2015 actuarial valuations.

The new actuarial assumptions include several changes. The interest rate assumption has been reduced to 7.50% per annum, from the previous rate of 8.50% per annum. Future annual salary increases are now assumed to be 4.00% per year, reduced from the 5.00% annual increase previously assumed before 2012. This assumption was modified from 4.25% to 4.00% last year to reflect the impact of negotiated pay raises from collective bargaining that will apply through 2017.

It is now assumed that there will be employment terminations prior to retirement, and the rates will depend on the number of completed years of service. The mortality assumption is changed to the more recent RP-2000 Mortality Table, using the Combined Rates for Healthy Males and Females with adjustment for Blue Collar. The mortality rates will also be improved in future years using the generational improvements of Scale A. Disability rates have also been revised.

7. Actuarial Valuation Results

Due to changes in actuarial assumptions, plan participation and annual salaries, the benefit liabilities are continuing to increase from the levels determined in the actuarial valuations before 2012. As mentioned, an adjusted market value method has been used to determine the actuarial value of assets. A net actuarial loss has resulted during the previous year on benefit liabilities, which has been added to by an actuarial loss resulting from investment return on the actuarial value of plan assets. The investment return on the actuarial value of assets was about 5.2%, which is about 2.3% lower than the assumed interest rate for the year.

Exhibit 1 summarizes the total actuarial present value of projected benefits, actuarial accrued liability, actuarial value of assets, unfunded actuarial accrued liability, normal cost, and the City's customary contribution for this year's valuation.

In years prior to 1991, the contribution was shown as a percent of covered payroll, or the payroll for active employees who have not reached age 55. The annual contribution is shown as a percent of the total payroll (inclusive of longevity payments and holiday pay) in this report, as this is a more appropriate measurement. The City's actual contribution rate is applied to total payroll. The calculation of actuarial gain/loss for the year ending October 31, 2015 is shown in Exhibit 10. The total net actuarial loss for the year was equal to approximately \$ 3.141 million.

8. Funded Status of the Plan

As a measure of the funded status of the pension plan, we have determined the value of benefits earned by participants through October 31, 2015, as if the pension plan were to terminate as of that date. In the unlikely event that all active participants terminated employment, this amount represents the total actuarial present value of pension benefits earned which would be paid to plan participants, including currently inactive and retired participants, and their beneficiaries, for years of service completed at October 31, 2015.

Accrued Benefit Liability	Police	<u>Fire</u>	<u>Total</u>
a. Active	\$ 19,655,727	\$ 26,139,783	\$ 45,795,510
b. Inactive	58,807,661	64,223,744	123,031,405
c. Total	\$ 78,463,388	\$ 90,363,527	\$ 168,826,915
2. Market Value of Assets	\$ 81,686,821	\$ 34,139,371	115,826,192
3. Funded Ratio (2)/(1c)x100%	104.1%	37.8%	68.6%

9. Comments and Recommendations

Based on our discussions with the Retirement Board, review of prior practices, and completion of this annual actuarial valuation, we have the following comments and recommendations:

- The valuation results suggest that the City should budget, in total, approximately 40.5% of the total payroll (base pay plus longevity payments and holiday pay) for the Police and Fire Fighters pension fund contribution; reflecting the asset transfer in 2014, the respective contribution rates have widened considerably, and are now equal to 20.9% for Police and 57.7% for Fire Fighters.
- The plan has now become a more well-funded public sector pension plan; assets are 68.6% of earned benefit liabilities on a plan discontinuance basis as of October 31, 2015. This ratio is based on the market value of assets of \$ 115,826,192; this ratio also reflects the asset transfer/deposit added to the pension fund in 2013.
- The single most important concern for the future financial success of a well-funded pension plan is adequate investment return on plan assets. Periodic review and monitoring of investment results will ensure the continued viability of the plan. The investment management process recently applied has recently yielded very good results.
- As of October 31, 2015, between 50% 55% of the pension plan assets based on market value as of that date were invested in equities. Since this may result in somewhat volatile asset returns from year to year, the valuation process includes a smoothing mechanism for determining the value of assets used in the actuarial valuation. We have employed a five year average of realized and unrealized investment gains (losses) in determining this year's results, with a new corridor limitation that valuation assets not exceed 120% of the pension fund market value as of October 31, 2015. This will help to stabilize the City's cost for the plan from year to year.
- For the year beginning in 2011 2012, a new amortization factor was instituted for the existing unfunded actuarial accrued liability, in determining the City's Customary Contribution. Previously, the amortization was determined as a level dollar amount over a predetermined amortization period of up to 40 years. Continuing on October 31, 2015, the amount of unfunded actuarial accrued liability of \$75,800,844 will be amortized as a level percentage of pay, over a 30 year period.

• We appreciate the cooperation and access to plan data provided by the City's Finance Department. This has allowed us to review actual plan experience with respect to the key assumptions, providing a foundation for a more realistic determination of the pension plan benefit obligations.

The actuarial valuation was based on data provided to us from various sources. We have checked this information and believe it is accurate for the purpose of completing this actuarial valuation. If there are any questions concerning this report or if any additional information is desired, we are available to provide further explanation.

Respectfully submitted, FALLON PENSION ACTUARIES, INC.

Michael Fallon
Fellow Society of Actuaries (F.S.A.)
Enrolled Actuary (E.A. #14-03368)

EXHIBIT 1 Summary of Actuarial Valuation Results as of October 31, 2015

			Police	Fire	Total
1.	Numb	per of Participants			
	a.b.c.d.e.f.	Active Service Retirement Disability Retirement Surviving Spouses Terminated with Vesting Total	$ \begin{array}{r} 93 \\ 72 \\ 20 \\ 21 \\ \hline 206 \end{array} $	$ \begin{array}{r} 112 \\ 89 \\ 25 \\ 19 \\ \hline 0 \\ \hline 245 \\ \end{array} $	$ \begin{array}{r} 205 \\ 161 \\ 45 \\ 40 \\ \hline 451 \end{array} $
2.		rial Present Value of e Projected Benefits			
	a. b. c.	Active Inactive Total	\$ 42,346,818 <u>58,807,661</u> \$101,154,479	64,223,744	\$ 91,001,651
3.	Actua	rial Accrued Liability	\$ 88,756,015	\$ 100,847,851	\$189,603,866
4.	Actua	rial Value of Plan Assets	\$ 80,265,271	\$ 33,537,751	\$113,803,022
5.		nded Actuarial Accrued lity: (3) - (4)	\$ 8,490,744	\$ 67,310,100	\$ 75,800,844
6.	Norm	al Cost			
	a. b. c.	City Employee Contribution Total	\$ 973,494 615,235 \$ 1,588,729	\$ 913,279	\$ 1,886,773
7.	Custo	omary Contribution			
	a. b.	City Normal Cost Amortization of Unfunded	\$ 973,494	\$ 913,279	\$ 1,886,773
	c.	Actuarial Accrued Liability Total	451,962 \$ 1,425,456	3,582,917 \$ 4,496,196	\$5,921,652
8.	Total	Payroll of Active Participants	\$ 6,835,941	\$ 7,792,332	\$ 14,628,273
9.		omary Contribution as Percentage tal Payroll (7c)/(8)x100%	20.9%	57.7%	40.5%

 $\underline{EXHIBIT\ 2}$ Five Year Summary of Actuarial Valuation Results as of October 31 (2011 – 2015)

(\$\$ Amounts in Thousands)

2011 2012 2013 2014 2015 2015 2014 2015							
Future Projected Benefits 2. Actuarial Accrued Liability 159,322 164,803 172,950 180,963 189,604 3. Value of Plan Assets * 53,521 52,075 107,770 111,060 113,803 4. Unfunded Actuarial Accrued 105,801 112,728 65,180 69,902 75,801 5. City Normal Cost 1,894 1,951 1,967 1,897 1,887 6. City's Customary Contribution 7,525 7,951 5,436 5,618 5,922 7. Actual City Contribution 1,590 7,784 5,606 6,435 N/A 8. Payroll of Active Participants ** 12,326 12,542 12,667 13,862 14,628 9. Percentage of Payroll Cost 61.1% 63.4% 42.9% 40.5% 40.5% for Customary Contribution 10. Number of Participants a. Active 188 188 186 195 205 b. Service Retirement 156 153 152 157 161 c. Disability Retirement 42 42 42 43 45 d. Surviving Spouses 49 50 51 41 40 e. Subtotal - Retired 247 245 245 245 241 246 Participants (b)+(c)+(d) 7 161 f. Terminated with Vesting 0 0 0 0 0 0 0 0 0			_2011_	_2012_	2013	2014	2015
3. Value of Plan Assets * 53,521 52,075 107,770 111,060 113,803 4. Unfunded Actuarial Accrued Liability 105,801 112,728 65,180 69,902 75,801 5. City Normal Cost 1,894 1,951 1,967 1,897 1,887 6. City's Customary Contribution 7,525 7,951 5,436 5,618 5,922 7. Actual City Contribution 1,590 7,784 5,606 6,435 N/A 8. Payroll of Active Participants ** 12,326 12,542 12,667 13,862 14,628 9. Percentage of Payroll Cost for Customary Contribution 61.1% 63.4% 42.9% 40.5% 40.5% 10. Number of Participants a. Active 188 188 186 195 205 b. Service Retirement c. 156 153 152 157 161 c. Disability Retirement d. 42 42 42 43 45 d. Surviving Spouses d. 49 50 51 41 40 <td>1.</td> <td></td> <td>\$ 181,929</td> <td>\$ 186,892</td> <td>\$ 194,674</td> <td>\$ 205,958</td> <td>\$ 214,033</td>	1.		\$ 181,929	\$ 186,892	\$ 194,674	\$ 205,958	\$ 214,033
4. Unfunded Actuarial Accrued Liability 105,801 112,728 65,180 69,902 75,801 5. City Normal Cost 1,894 1,951 1,967 1,897 1,887 6. City's Customary Contribution 7,525 7,951 5,436 5,618 5,922 7. Actual City Contribution 1,590 7,784 5,606 6,435 N/A 8. Payroll of Active Participants ** 12,326 12,542 12,667 13,862 14,628 9. Percentage of Payroll Cost for Customary Contribution 61.1% 63.4% 42.9% 40.5% 40.5% 10. Number of Participants 188 188 186 195 205 b. Service Retirement contribution 156 153 152 157 161 c. Disability Retirement contribution 42 42 42 43 45 d. Surviving Spouses contribution 49 50 51 41 40 e. Subtotal - Retired contribution 247 245 245 241 246 <t< td=""><td>2.</td><td>Actuarial Accrued Liability</td><td>159,322</td><td>164,803</td><td>172,950</td><td>180,963</td><td>189,604</td></t<>	2.	Actuarial Accrued Liability	159,322	164,803	172,950	180,963	189,604
Liability 5. City Normal Cost 1,894 1,951 1,967 1,897 1,887 6. City's Customary Contribution 7,525 7,951 5,436 5,618 5,922 7. Actual City Contribution 1,590 7,784 5,606 6,435 N/A 8. Payroll of Active Participants ** 12,326 12,542 12,667 13,862 14,628 9. Percentage of Payroll Cost for Customary Contribution 10. Number of Participants a. Active 188 188 186 195 205 b. Service Retirement 156 153 152 157 161 c. Disability Retirement 42 42 42 43 45 d. Surviving Spouses 49 50 51 41 40 40 60 60 60 60 60 60 60 60 60 60 60 60 60	3.	Value of Plan Assets *	53,521	52,075	107,770	111,060	113,803
6. City's Customary Contribution 7,525 7,951 5,436 5,618 5,922 7. Actual City Contribution 1,590 7,784 5,606 6,435 N/A 8. Payroll of Active Participants ** 12,326 12,542 12,667 13,862 14,628 9. Percentage of Payroll Cost 61.1% 63.4% 42.9% 40.5% 40.5% for Customary Contribution 10. Number of Participants a. Active 188 188 186 195 205 b. Service Retirement 156 153 152 157 161 c. Disability Retirement 42 42 42 42 43 45 45 45 25 25 241 40 40 6. Surviving Spouses 49 50 51 41 40 6. Surviving Spouses 49 50 51 41 40 6. Surviving Spouses 49 50 51 41 40 6. Surviving Spouses 49 7247 245 245 245 241 246 7246 7246 7246 7246 7246 7246 7246	4.		105,801	112,728	65,180	69,902	75,801
7. Actual City Contribution 1,590 7,784 5,606 6,435 N/A 8. Payroll of Active Participants ** 12,326 12,542 12,667 13,862 14,628 9. Percentage of Payroll Cost for Customary Contribution 61.1% 63.4% 42.9% 40.5% 40.5% 10. Number of Participants a. Active 188 188 186 195 205 b. Service Retirement 156 153 152 157 161 c. Disability Retirement 42 42 42 43 45 d. Surviving Spouses 49 50 51 41 40 e. Subtotal - Retired 247 245 245 241 246 Participants (b)+(c)+(d) 0 0 0 0 0 0 f. Terminated with Vesting 0 0 0 0 0 0	5.	City Normal Cost	1,894	1,951	1,967	1,897	1,887
8. Payroll of Active Participants ** 12,326 12,542 12,667 13,862 14,628 9. Percentage of Payroll Cost for Customary Contribution 61.1% 63.4% 42.9% 40.5% 40.5% 10. Number of Participants a. Active 188 188 186 195 205 b. Service Retirement 156 153 152 157 161 61 62 63 63 63 63 63 63 64	6.	City's Customary Contribution	7,525	7,951	5,436	5,618	5,922
9. Percentage of Payroll Cost for Customary Contribution 61.1% 63.4% 42.9% 40.5% 40.5% 10. Number of Participants a. Active 188 188 186 195 205 b. Service Retirement 156 153 152 157 161 c. Disability Retirement 42 42 42 43 45 d. Surviving Spouses 49 50 51 41 40 e. Subtotal - Retired 247 245 245 241 246 Participants (b)+(c)+(d) 0 0 0 0 0 0 f. Terminated with Vesting 0 0 0 0 0 0	7.	Actual City Contribution	1,590	7,784	5,606	6,435	N/A
for Customary Contribution 10. Number of Participants a. Active 188 188 186 195 205 b. Service Retirement 156 153 152 157 161 c. Disability Retirement 42 42 42 43 45 d. Surviving Spouses 49 50 51 41 40 e. Subtotal - Retired 247 245 245 241 246 Participants (b)+(c)+(d) f. Terminated with Vesting 0 0 0 0 0 0	8.	Payroll of Active Participants **	12,326	12,542	12,667	13,862	14,628
a. Active 188 188 186 195 205 b. Service Retirement 156 153 152 157 161 c. Disability Retirement 42 42 42 43 45 d. Surviving Spouses 49 50 51 41 40 e. Subtotal - Retired 247 245 245 241 246 Participants $(b)+(c)+(d)$ f. Terminated with Vesting 0 0 0 0 0 0 0	9.		61.1%	63.4%	42.9%	40.5%	40.5%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10.	Number of Participants					
c. Disability Retirement 42 42 42 43 45 d. Surviving Spouses 49 50 51 41 40 e. Subtotal - Retired $2\overline{47}$ $2\overline{45}$ $2\overline{45}$ $2\overline{45}$ $2\overline{41}$ $2\overline{46}$ Participants (b)+(c)+(d) f. Terminated with Vesting 0 0 0 0 0 0		a. Active	188	188	186	195	205
g. Total Participants 435 433 431 436 451		 c. Disability Retirement d. Surviving Spouses e. Subtotal - Retired Participants (b)+(c)+(d) 	$\frac{42}{49}$ $2\overline{47}$	$ \begin{array}{r} 42 \\ 50 \\ 245 \end{array} $	$ \begin{array}{r} 42 \\ 51 \\ 245 \end{array} $	43 41 241	$ \begin{array}{r} 45 \\ 40 \\ 246 \end{array} $
		g. Total Participants	435	433	431	436	451

^{*} Adjusted market value for all plan years

^{**} Total payroll (base, plus holiday, plus longevity) for all plan years

EXHIBIT 3

Distribution of Active Plan Participants With Average Annual Base Salary as of October 31, 2015

YEARS OF SERVICE (BENEFIT ACCRUAL) **ATTAINED** 10-14 TOTAL AVG SAL 0-45-9 15-19 20-24 25-29 30-34 35 +**AGE** 20-24 \$ 52,819 25-29 53,085 30-34 58,588 35-39 61,442 40-44 64,869 45-49 68,207 50-54 70,670 55-59 74,322 60 +**TOTAL** \$ 63,639 **AVERAGE SALARY** \$ 53,663 \$ 60,613 \$ 69,797 \$ 73,721 \$ 84,347 \$0 \$ 64,604 \$ 65,288

Average salary includes annual base salary; holiday pay and current longevity payments are not included.

EXHIBIT 4 Reconciliation of Plan Participants

	Police	<u>Fire</u>	<u>Total</u>
Active Participants			
as of October 31, 2014	91	104	195
New entrants	8	15	23
Service retirements	(4)	(3)	(7)
Disability retirements	0	(2)	(2)
Return to active status	0	0	0
Deaths with surviving spouse	0	0	0
Terminations with refunds	(2)	(2)	(4)
Active Participants			
as of October 31, 2015	93	112	205
Participants on Service Retirement			
as of October 31, 2014	70	87	157
New service retirements	4	3	7
Death with continuing benefits	0	0	0
Retirement from vested status	0	0	0
Deaths without continuing benefits	(2)	(1)	(3)
Transfer to active status	0	0	0
Participants on Service Retirement			
as of October 31, 2015	72	89	161
Participants on Disability Retirement			
as of October 31, 2014	20	23	43
New disability retirements	0	2	2
Deaths without continuing benefits	0	0	0
Deaths with continuing benefits	0	0	0
Transfer to survivor status	0	0	0
Participants on Disability Retirement			
as of October 31, 2015	20	25	45

EXHIBIT 4 - Continued Reconciliation of Plan Participants

	<u>Police</u>	<u>Fire</u>	<u>Total</u>
Spouses Receiving Benefits			
as of October 31, 2014	22	19	41
Deaths	(1)	0	(1)
New surviving spouses from retired status	0	0	0
New surviving spouses from active status	0	0	0
New surviving spouses from disabled status	0	0	0
Transfer from retired status	0	0	0
Spouses Receiving Benefits as of October 31, 2015	21	19	40
Participants Terminated with Vesting as of October 31, 2014	0	0	0
New terminations with vesting	0	0	0
Retired	0	0	0
Refund of contributions	0	0	0
Participants Terminated with Vesting			
as of October 31, 2015	0	0	0

EXHIBIT 5

Distribution of Inactive Plan Participants as of October 31, 2015

	DISABLED AND TERMINATED VESTED		RETIREES AND BENEFICIARIES		TO	OTAL
ATTAINED AGE	NUMBER	ANNUAL BENEFITS	NUMBER	ANNUAL BENEFITS	NUMBER	ANNUAL BENEFITS
Under 45	2	\$ 106,039	1	\$ 17,358	3	123,397
45-49	2	103,371	4	188,430	6	291,801
50-54	1	49,215	12	520,076	13	569,291
55-59	13	701,678	25	1,266,899	38	1,968,577
60-64	2	93,645	31	1,640,035	33	1,733,680
65-69	7	269,944	31	1,405,632	38	1,675,576
70-74	9	415,284	28	1,206,620	37	1,621,904
75-79	5	236,794	24	1,005,449	29	1,242,243
80-84	3	153,516	15	487,419	18	640,935
85 and Over	1	9,840	30	699,437	31	709,277
TOTAL	45	\$ 2,139,326	201	\$ 8,437,355	246	\$ 10,576,681
AVERAGE ANNUITY	-	\$ 47,541		\$ 41,977		\$ 42,995

EXHIBIT 6Five Year Summary of Pension Fund Investment Performance 2011-2015

			For Plan Year	r Ending October 31		
		2011	2012	2013	2014	2015
1.	Market Value of Assets at Beginning of Year	\$ 58,336,221	\$ 53,438,852	\$ 50,790,044	\$ 110,946,970	\$116,651,846
2.	Contributions					
	a. Cityb. Employeec. Transfer Depositd. Total	$ \begin{array}{r} 1,437,580 \\ 965,007 \\ \hline 2,402,587 \end{array} $	$ \begin{array}{r} 1,590,445 \\ 990,483 \\ \hline 2,580,928 \end{array} $	7,784,310 1,001,991 <u>49,200,000</u> 57,986,301	5,606,148 1,035,470	6,435,589 $1,263,128$ 0 $7,698,717$
3.	Investment Income	713,206	913,600	1,895,284	1,206,235	1,132,867
4.	Realized Gain (Loss)	1,214,530	1,678,534	212,502	(801,775)	2,355,913
5.	Unrealized Gain (Loss)	(271,629)	1,333,969	9,581,223	8,780,663	(1,384,151)
6.	Benefit Payments	8,705,932	8,964,308	9,314,049	9,746,290	10,237,038
7.	Expenses	250,131	191,531	204,335	375,575	391,962
8.	Market Value of Assets at End of Year	\$ 53,438,852	\$ 50,790,044	\$ 110,946,970	\$ 116,651,846	\$ 115,826,192
9.	Rate of Return	3.1%	7.8%	14.8%	8.4%	1.8%

Compound equivalent annual rate of return: for the five year period 2011 – 2015 is 7.0%; for three year period 2013 – 2015 is 8.2%.

EXHIBIT 7

Reconciliation of Plan Assets as of October 31, 2015

		Book Value	Market Value	Actuarial Value	
1	Value of Plan Assets	(1)	(2)	(3)	
1.	as of October 31, 2014	\$ 92,729,718	\$ 116,651,846	\$ 111,060,482	
2.	Contributions				
	a. City	6,435,589	6,435,589	6,435,589	
	b. Employee	1,263,128	1,263,128	1,263,128	
	c. Transfer Deposit	0	$\frac{0}{7,698,717}$	\$ 7,698,717	
	d. Total	\$ 7,698,717	\$ 7,698,717	\$ 7,698,717	
3.	Investment Income	1,132,867	1,132,867	1,132,867	
4.	Net Realized Gain (Loss) on Sales of Investments	2,355,913	2,355,913	931,941	
5.	Net Increase (Decrease) in Unrealized Appreciation		(1,384,151)	3,608,015	
6.	Benefit Payments	(10,237,038)	(10,237,038)	(10,237,038)	
7.	Expenses	(391,962)	(391,962)	(391,962)	
8.	Value of Plan Assets as of October 31, 2015	\$ 93,288,215	\$ 115,826,192	\$ 113,803,022	
9.	Rate of Return		1.8%	5.2%	

Note: Actuarial value of assets is determined by replacing actual realized gain (loss) and actual unrealized gain (loss) by the average of such gains (losses) over the prior five years. The distribution of appreciation between realized gain and increase in unrealized gain has been closely approximated for this year. However, the total appreciation is the correct value and may be otherwise shown as a combined amount in the future. The actuarial value of assets is subject to a corridor limitation equal to 120% of the market value of assets (not applicable in 2015).

EXHIBIT 8

Summary of Principal Provisions of the Plan

1.	Effective Date	November 1, 1961
2.	Eligibility for Participation	Immediately upon becoming an employee of the police or fire department, and being sworn in as a police officer or fire fighter.
3.	Definition of Salary	Salary including holiday pay (at 14 days for policemen and fire fighters) plus longevity payment based on schedule below.
		For Police and Fire Fighters: 6% of base salary after 5 years of service 7% of base salary after 10 years of service 8% of base salary after 15 years of service 9% of base salary after 20 years of service
4.	Cost of Living Adjustments After retirement	For Police, participants who retire between November 1, 1982 and November 1, 1984 receive 3% compounded cost of living increase annually. Participants who retire after November 1, 1994 receive 3% compounded cost of living increase annually at or after age 51. After October 1, 1995 annual 3% compounded cost of living increase extended to disabled policemen prior to age 51.
		For Fire Fighters, participants who retire after November 1, 1985 receive 3% compounded cost of living increase annually at or after age 51. Participants who retire after November 1, 1989 will receive 3% compounded cost of living increases annually regardless of age. For Fire Fighters hired after 2013, participants receive 2.25% noncompounded cost of living increase.
5.	Normal Form of Pension	Life annuity; optional non-spouse joint and survivor annuity available on actuarial equivalent basis.
6.	Definition of Credited Service	Equals completed years and months from date of hire. For any month, 15 days or more is considered a full month of service.

EXHIBIT 8 - Continued

7. **Participant Contributions** Police contribute 9% of compensation and Fire Fighters

contribute 9% of compensation.

8. Service Retirement

a. Eligibility

Earlier of (i) or (ii):

(i) Age 60 and 10 years of service, or

(ii) 20 years of service

For Fire Fighters hired after 2013:

Age 50 after 25 years of service

b. Benefit Formula

For (i) above:

2% of salary for each year of credited service to a

maximum of 70%.

For (ii) above:

21/2% of salary for each of the first 24 years of credited service, plus 2% of salary for each of the next 4 years plus 1% of salary for each additional year of credited service to

a maximum of 70% at 30 years of credited service).

For Fire Fighters hired after 2013: pension will be based

on final 3 year average at retirement.

9. Disability Retirement

a. Eligibility - Service

Related

Active participant.

b. Benefit Formula - Service

Related

66²/₃% of salary at time of disability plus 10% of

salary for each child under age 18 to a maximum of 80% of

salary.

c. Eligibility - Non Service

Related

10 years of service.

EXHIBIT 8 - Continued

- 9. Disability Retirement (continued)
 - d. Benefit Formula Non Service Related

1¾% of salary at time of disability for each year of service to date of disability, with minimum benefit of 25% of salary, and maximum benefit of 50% of salary. If credited service at date of disability is twenty years or more, at age 55, participant is entitled to a service retirement annuity

- 10. Termination of Service Prior to Retirement
 - a. Eligibility

10 years of service.

b. Benefit Provided

Accrued pension based on service and salary to date of termination. Payable at age 55, and for Fire Fighters hired after 2013 payable at age 60.

c. Refund of Contributions

An employee who has not satisfied the vesting requirements will be entitled to a return of participant contributions without interest.

- 11. Death Benefits
 - a. Eligibility Service Related

Death resulting from an act of duty.

b. Benefits Provided -Service Related Depends on marital and dependent status:

- (i) With surviving spouse equals 50% of salary at time of death, plus 10% of salary for each child under age 18 to a maximum of 70% of salary
- (ii) Without surviving spouse equals 15% of salary at time of death for each child under the age of 18 with a maximum of 60% of salary.
- c. Eligibility Non Service Related

3 years of service.

EXHIBIT 8 - Continued

- 11. Death Benefits (continued)
 - d. Benefit Provided Non Service Related

Payable to surviving spouse as follows:

30% of salary increased by 1% for each year of service in excess of 3 years, to a maximum of 50% of salary, and beginning at the surviving spouse's age 55, plus 10% of salary for each child under age 18 to a maximum of 60% of salary, with benefits to spouse and children under age 18 beginning immediately.

e. R.I. State Mandated Spouse's Death Benefit Plan benefit above, or $67\frac{1}{2}\%$ of final pension payment, if provides a higher benefit.

EXHIBIT 9

Actuarial Cost Method and Assumptions

1. Actuarial Cost Method

The entry age normal actuarial cost method. Under this method, the annual normal cost is determined for each active participant as of each valuation date, and represents the level percentage of pay from age at hire through retirement to fund the projected retirement benefit. The actuarial accrued liability is equal to the accumulated annual normal costs from entry through the valuation date. The unfunded actuarial accrued liability represents the excess of the actuarial accrued liability over the valuation assets. The projected unit credit actuarial cost method was previously used before 2012.

2. Interest

- 7.50% per annum (previously 8.50% before 2012).
- 3. Salary Increases

Future salaries expected to increase at rate of 4.00% per year (previously 4.25% before 2014).

4. Mortality

The RP-2000 Combined Healthy for Males and Females with Blue Collar adjustments, projected with Scale AA. Sample rates are as follows:

Age	Male	Female
25	.0004	.0002
35	.0008	.0004
45	.0014	.0008
55	.0036	.0020
65	.0135	.0100
75	.0369	.0283

5. Terminations

Rates based on years of service:

<u>Service</u>	Rate
1	.0400
5	.0314
10	.0207
15	.0100
20 or More	.0000

EXHIBIT 9 - Continued

6.	Retirement	The following annual rates of retirement age:		
		After Age 40	Annual Rate	
		With 20 Years	12%	
		21 – 23 Years	14%	
		24 – 26 Years	16%	
		27 – 29 Years	18%	
		30 Years or More	20%	
		Age 60 and Over	100%	
7.	Disability	Rates based on attained age:		
		Age	Rate	
		25	.0050	
		35	.0075	
		45	.0180	
		55	.0300	
8.	Cost of Living Adjustments	cost of living adjustments	provisions of the plan, 3% annual are assumed for the appropriate bers; 2.25% annual cost of living Fire Fighters after 2013.	
9.	Value of Assets	actual gains (losses) and un average of such gains (losses	October 31, determined by replacing arealized gains (losses) by a 5 year. Allocation of assets between police in equivalent funded status of accrued sis as of the valuation date.	
10.	Percent Married		umed to be married. Female spouses years younger than male spouses before 2012).	

October 31, 2015.

11.

Date of Valuation

EXHIBIT 10

Determination of Actuarial Gain (Loss)

1.	Unfunded Actuarial Accrued Liability as of October 31, 2014	\$ 69,902,327
2.	City Normal Cost for Plan Year Commencing November 1, 2014	1,896,610
3.	Interest on (1) and (2) at 7.5% per annum	5,384,920
4.	City Contributions for Plan Year Ending October 31, 2015	6,435,589
5.	Interest on (4) at 7.5% per annum for ½ year	241,335
6.	Effect of Employee Contributions	358,274
7.	Gain due to Change in Actuarial Assumptions	0
8.	Expected Unfunded Actuarial Accrued Liability as of October 31, 2015 $(1) + (2) + (3) - (4) - (5) + (6) + (7)$	\$ 70,865,207
9.	Actual Unfunded Actuarial Accrued Liability as of October 31, 2015	\$ 75,800,844
10.	Actuarial Gain (Loss) before: (8) - (9)	(\$ 4,935,637)
11.	Sources of Actuarial Gain (Loss): a. Investment Experience b. Other Actuarial Experience * c. Change in Actuarial Assumptions c. Net Gain (Loss) for Year	(\$ 2,546,828) (2,388,809) 0 (\$ 4,935,637)

^{*}Includes salary increases, mortality, disability, retirements, and new participants.

City of East Providence

Police and Fire Fighters Retirement Plan

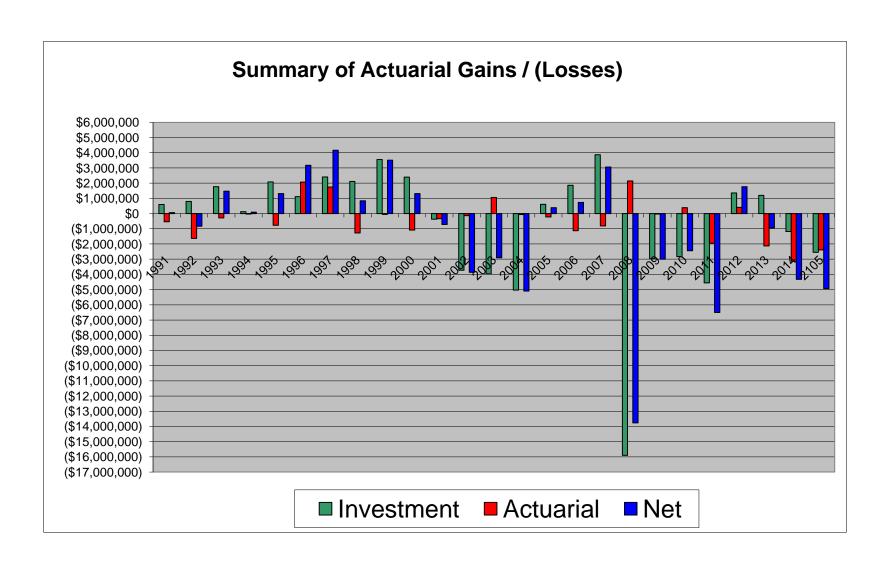


EXHIBIT 12

Glossary of Terms

This glossary summarizes the technical terms contained in this report.

- 1. <u>Actuarial Assumptions</u>: Assumptions as to the occurrence of future events affecting the Retirement System such as:
 - Rates of investment return
 - Increases in a member's salary
 - Inflation
 - Probability of mortality, turnover, disablement
 - Retirement at each age and other relevant items
- 2. <u>Actuarial Cost Method</u>: A procedure for allocating the Actuarial Present Value of total projected pension plan benefits between Normal Cost and Actuarial Accrued Liability.
- 3. <u>Actuarial Present Value of Benefits</u>: The single-sum amount required at the valuation date to provide the projected pension plan benefits and which reflects anticipated future events, the terms of the plan and the Actuarial Assumptions.
- 4. <u>Actuarial Accrued Liability</u>: That portion of the Actuarial Present Value of Benefits which is not provided for by future Employer Normal Costs or employee contributions.
- 5. <u>Normal Cost</u>: That portion of the Actuarial Present Value of Benefits which is assigned to the current year. The City Normal Cost is determined as the total Normal Cost less the expected employee contributions for the current year.
- 6. <u>Unfunded Actuarial Accrued Liability</u>: That portion of the Actuarial Accrued Liability in excess of the assets.
- 7. <u>Accrued Benefit Liability</u>: That portion of the Actuarial Value of Benefits which represents the amount to which a participant would be entitled if he terminated his employment with the employer as of the valuation date.

Disclosure of Pension Information in Accordance with GASB Statement No. 25

APPENDIX A

Funding Status and Progress

The amount shown below as "pension benefit obligation" is a standardized disclosure measure of the present value of pension benefits, adjusted for the effects of projected salary increases and any step rate benefits estimated to be payable in the future as a result of employee service to date. The measure is the actuarial present value of credited projected benefits and is intended to help users assess The City of East Providence Police and Fire Fighters Retirement System funding status on an ongoing concern basis, assess progress made in accumulating sufficient assets to pay benefits when due and make comparisons among Public Employee Retirement Systems ("PERS"). The measure is often independent of the actuarial funding method used to determine contributions to the system.

The pension benefit obligation was determined as part of an actuarial valuation at October 31, 2015. Significant actuarial assumptions used include (a) a rate of return on the investment of present and future assets of 7.50 percent per year compounded annually, (b) projected salary increases of 4.00 percent per year compounded annually, attributable to inflation and seniority/merit, and (c) post-retirement benefit increases of 3 percent per year compounded annually from retirement (2.25 percent per year non-compounded for newly hired Fire Fighters).

As required by GASB Statement No. 25, which has been adopted by the Fund during the fiscal year ending October 31, 2014, additional schedules have been added to the report showing Funding Progress (in Appendix D) and Employer Contributions (in Appendix E) for the six year period ending October 31, 2015.

APPENDIX A - Continued

At October 31, 2015, the unfunded pension benefit obligation was as follows (in thousands):

	Police	<u>Fire</u>	Total
	(\$000)	(\$000)	(\$000)
Pension benefit obligation:			
Retirees and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$ 58,808	\$ 64,224	\$ 123,032
Current employees:			
- Accumulated employee contributions	\$ 5,198	\$ 6,274	\$ 11,472
- Employer-financed vested	21,573	26,685	47,312
- Employer-financed nonvested	3,177	3,665	6,701
Total pension benefit obligation	\$ 88,756	\$ 100,848	\$ 189,604
Net assets available for benefits, at market value	\$ 81,686	\$ 34,140	\$ 115,826
Unfunded pension benefit obligation:	\$ 7,070	\$ 66,708	\$ 73,778

APPENDIX B

Revenues by Source and Expenses By Type

REVENUES BY SOURCE

Fiscal Year				
Ending	Employee	Employer	Investment	
October 31	Contributions	Contributions	Income	<u>Total</u>
2002	\$ 739,348	\$ 316,867	\$ 2,662,384	\$ 3,718,599
2003	758,434	325,051	2,166,505	3,249,990
2004	854,463	754,998	1,144,414	2,753,875
2005	896,263	782,234	1,167,580	2,846,077
2006	935,149	985,136	1,160,676	3,080,961
2007	1,004,256	1,494,518	1,071,667	3,570,441
2008	1,068,554	1,564,102	1,375,106	4,007,762
2009	1,053,195	1,567,216	1,084,394	3,704,805
2010	1,211,632	1,400,002	851,050	3,462,684
2011	965,007	1,437,580	713,206	3,115,793
2012	990,483	1,590,445	913,600	3,494,528
2013	1,001,991	7,784,310	1,895,284	10,681,585
2014	1,035,470	5,606,148	1,206,235	7,847,853
2015	1,263,128	6,435,589	1,132,867*	8,831,584

EXPENSES BY TYPE

Fiscal Year			
Ending		Administrative	
October 31	Benefits**	Expenses	<u>Total</u>
2002	\$ 5,102,499	\$ 459,332	\$ 5,561,831
2003	5,467,561	427,028	5,891,589
2004	5,764,126	349,556	6,113,682
2005	6,070,139	517,025	6,587,164
2006	6,511,544	479,289	6,990,833
2007	6,843,367	463,751	7,307,118
2008	7,084,598	449,139	7,533,737
2009	7,490,300	265,325	7,755,625
2010	8,243,471	295,321	8,538,792
2011	8,705,932	250,131	8,956,063
2012	8,964,308	191,531	9,155,839
2013	9,314,049	204,335	9,518,384
2014	9,746,290	375,575	10,121,865
2015	10,237,038	391,962	10,629,000

^{*} Not including gain or loss on sale of assets

^{**} Includes refund of employee contributions, if any

APPENDIX C

Analysis of Funding Progress
(In Millions of Dollars)

Fiscal Year Ending October 31	(1) Net Assets Available for Benefits*	(2) Pension Benefit Obligation	(3) Percentage Funded (1) / (2)	(4) Unfunded Pension Benefit Obligation (2) - (1)	(5) Annual Covered Payroll***	(6) Unfunded Pension Benefit Obligation as a % of Covered Payroll (4) / (5)
2002	\$ 63.25	\$ 86.86	73%	\$ 23.61	\$ 10.89	217%
2003	67.13	90.22	74%	23.09	11.03	209%
2004	68.50	94.77	72%	26.27	11.10	237%
2005	70.11	99.59	70%	29.48	11.26	262%
2006	76.88	105.48	73%	28.60	11.91	240%
2007	84.93	111.25	76%	26.32	13.19	200%
2008	54.56	114.67	48%	60.11	12.97	463 %
2009	57.32	120.06	48%	62.74	12.58	499%
2010	58.34	124.59	47%	66.25	11.77	563%
2011	53.44	159.32	34%	105.88	12.33	859%
2012	50.79	164.80	31%	114.01	12.54	909%
2013	110.97	172.95	64%	62.00	12.67	489%
2014	116.65	180.96	65%	64.31	13.86	464%
2015	115.83	189.60	61%	73.77	14.63	504%

Analysis of the dollar amounts of net assets available for benefits, pension benefit obligation, and unfunded pension benefit obligation in isolation can be misleading. Expressing the net assets available for benefits as a percentage over time indicates whether the System is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the System. Trends in unfunded pension benefit obligation and annual covered payroll are affected by inflation. Expressing the unfunded pension benefit obligation as a percentage of annual covered payroll approximately adjusts for the effects of inflation and aids analysis of the System's progress made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the System.

^{***} Covered Payroll of Members of Retirement Plan

APPENDIX D

Schedule of Funding Progress (In Millions of Dollars)

Six Years Ended October 31, 2015

Actuarial Valuation Date October 31	(1) Actuarial Value of <u>Plan Assets</u>	(2) Actuarial Accrued Liability	(3) Funded Ratio (1) / (2)	(4) Unfunded Actuarial Liability (2) - (1)	(5) Annual	(6) Ratio of Infunded Actuarial Liability to Annual Covered Payroll (4) / (5)
2010	\$ 59.60	\$ 124.59	48%	\$ 64.99	\$ 11.77	552%
2011	53.52	159.32	34%	105.80	12.33	858%
2012	52.08	164.80	32%	112.72	12.54	899%
2013	107.70	172.95	62%	65.25	12.67	515%
2014	111.06	180.96	61%	69.90	13.86	504%
2015	113.80	189.60	60%	75.80	14.63	518%

APPENDIX E

Schedule of Employer Contributions (In Dollars)

Six Years Ended October 31, 2015

Fiscal Year Ending October 31	Annual Recommended Contributions	Actual Employer Contributions	Percentage of Actual Employer Contributions to Annual Recommended Contributions
2010	\$ 4,681,000	\$ 1,400,000	30%
2011	4,847,900	1,438,000	30%
2012	7,525,400	1,590,400	21%
2013	7,951,500	7,784,300	98%
2014	5,436,900	5,606,100	103 %
2015	5,617,500	6,435,600	115%