CITY OF SATELLITE BEACH POLICE OFFICERS' AND FIREFIGHTERS' RETIREMENT SYSTEM



DETERMINES THE CONTRIBUTION FOR THE 2018/19 FISCAL YEAR



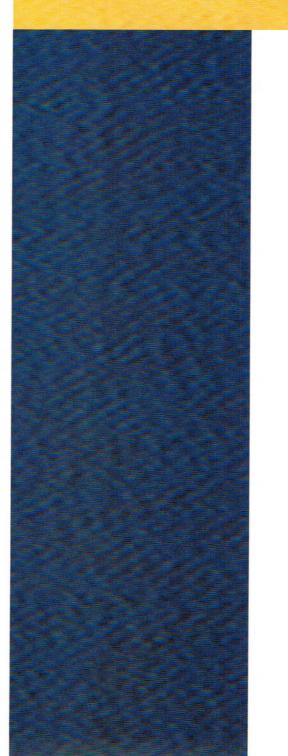


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April 8, 2018

Introduction

This report presents the results of the October 1, 2017 actuarial valuation of the City of Satellite Beach Police Officers' and Firefighters' Retirement System. 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, 2017 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2018/19 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 <u>estimate</u> 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 minimum required contribution rate.

Minimum Required Contribution

Table I-A shows the development of the minimum required contribution for the 2018/19 plan year. The minimum required contribution rate is 38.45% of covered payroll, which represents a decrease of 0.22% of payroll from the prior valuation.

Table I-C provides a breakdown of the sources of change in the contribution rate. Significantly, the rate increased by 0.31% of payroll due to investment losses, decreased by 2.05% of payroll due to demographic experience, and increased by another 1.52% of payroll due to the assumption change that is described below. The market value of assets earned 13.50% during the 2016/17 plan year. However, the actuarial value of assets is based on a four-year



average of the market value returns. On this basis, the actuarial value of assets earned 6.95% during the 2016/17 plan year, whereas a 7.50% 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 amortization payment towards the unfunded liability, where the amortization period is no longer than 30 years and where both amounts are adjusted as necessary for administrative expenses and to reflect interest on any delayed payment of the contribution beyond the valuation date. On this basis, the City's 2018/19 minimum required contribution will be equal to 38.45% multiplied by the total pensionable earnings for the 2018/19 fiscal year for the active employees who are covered by the plan and reduced by the portion of the Chapter 175/185 contribution that is allowed to be recognized during the 2018/19 plan year. With respect to the 2015/16, 2016/17, and 2017/18 plan years, the allowable portion of the Chapter 175/185 contribution is the entire distribution each year.

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 \$26,213,352. As illustrated in Table I-A, current assets are sufficient to cover \$17,650,201 of this amount, the employer's 2017/18 expected contribution will cover \$935,629 of this amount, the employer's 2018/19 expected contribution will cover \$974,526 of this amount, and future employee contributions are expected to cover \$1,163,168 of this amount, leaving \$5,489,828 to be covered by future employer funding beyond the 2018/19 fiscal year. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

Amortization of the Unfunded Liability

This plan uses the entry age normal cost method to develop an unfunded liability each year. The unfunded liability is then amortized or "paid off" over a period of time. The period over which the unfunded liability is amortized is often referred to as the "funding period" of the plan. Although under Chapter 112 the maximum allowable funding period is 30 years, the unfunded liability should be paid off within a period that does not exceed the expected future working life of the active employees who are covered by the plan. We recommend a 10-year amortization period for amortization components that arise after October 1, 2008. However, it is our understanding that the Board of Trustees has adopted a 30-year amortization period for this purpose and this report reflects the Board's decision. Table I-I shows the various components of the unfunded liability and the respective funding period for each component.

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. Specifically, Table II-A shows the development of the actuarial value of assets, which is based on the four-year average return on the market value of assets in order to provide a more stable and predictable contribution rate for the employer. Tables III-A through III-G provide statistical information concerning the plan's participant population. In particular, Table III-G 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 through V-B provide a summary of the actuarial assumptions and



methods that are used to value the plan's benefits and of the relevant plan provisions as of October 1, 2017, as well as a summary of the changes that have occurred since the previous valuation report was prepared.

Assumption Change

The interest (or discount) rate has been decreased from 7.50% per annum to 7.40% per annum to reflect lower anticipated investment earnings in the future. This change increased the minimum required contribution for the 2018/19 plan year by 1.52% of payroll.

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, except as noted in Table IV-A, item 4. 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,

OL - I - T O ---

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

Enrolled Actuary No. 17-04927

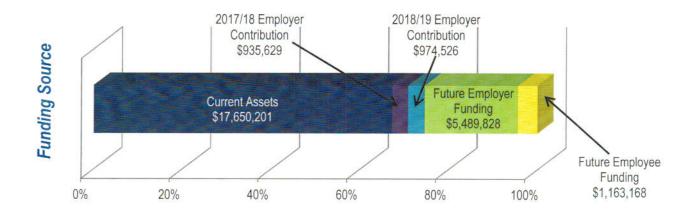
Chall J. Cm

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



For the 2018/19 Plan Year

Minimum Required Contribution Rate	38.45%
Expected Payroll for the 2018/19 Plan Year	÷ \$2,534,449
Preliminary Employer Contribution for the 2018/19 Plan Year	\$974,526
One Year's Interest Charge/(Credit) on the Remaining Contribution	\$2,680
	x 0.074
Remaining Contribution Due/(Credit) for the 2017/18 Plan Year	\$36,217
Expected Employer Contribution for the 2017/18 Plan Year	(\$935,629)
Adjustment to Reflect End-of-Quarter Employer Contributions	\$42,224
	\$929,622
Expected Employee Contribution for the 2017/18 Plan Year	(\$198,155)
Expense Allowance for the 2017/18 Plan Year	\$30,244
Unfunded Liability Amortization Payment for the 2017/18 Plan Year	\$429,361
Entry Age Normal Cost for the 2017/18 Plan Year	\$668,172

(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the year.)

Additional Disclosures

Present Value of Future Compensation	\$14,539,581
Present Value of Future Employer Contributions	\$7,399,983
Present Value of Future Employee Contributions	\$1,163,168

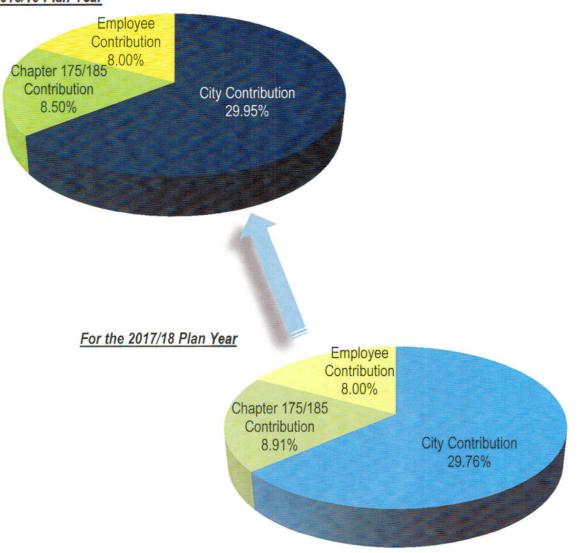


Minimum Required Contribution

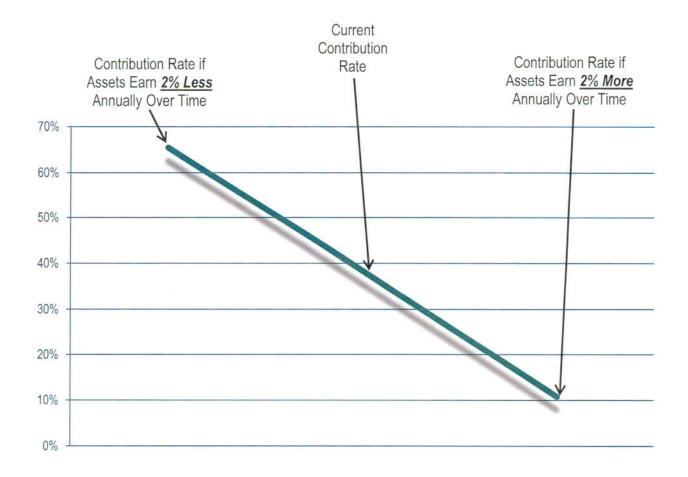
Table I-A (continued)

The minimum required contribution rate of 38.45% includes both the City contribution and the allowable Chapter 175/185 contribution. In addition, employees are required to contribute 8.00% of pensionable earnings. The actual City contribution rate is expected to be approximately 29.95% based on the allowable Chapter 175/185 contribution for the previous year. The chart below shows the expected contribution rate by source for the 2018/19 plan year based on the expected payroll. A comparative chart shows the contribution rate by source for the previous plan year.

For the 2018/19 Plan Year







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



Gain and Loss Analysis

Table I-C

Source of Change in the Contribution Rate

Previous minimum required contribution rate	38.67%
Increase (decrease) due to investment gains and losses Increase (decrease) due to demographic experience	0.31% -2.05%
Increase (decrease) due to plan amendments Increase (decrease) due to actuarial assumption changes Increase (decrease) due to actuarial method changes	0.00% 1.52% 0.00%
Current minimum required contribution rate	38.45%

Source of Change in the Unfunded Liability

Previous unfunded liability	\$4,774,055
Increase due to employer normal cost for the prior year	\$344,311
Increase due to interest on normal cost and unfunded liability	\$383,877
Decrease due to employer contributions	(\$796,903)
Decrease due to interest on employer contributions	(\$29,344)
Expected unfunded liability	\$4,675,996
Increase (decrease) due to plan experience	(\$147,164)
Increase (decrease) due to plan amendments	\$0
Increase (decrease) due to actuarial assumption changes	\$249,173
Increase (decrease) due to actuarial method changes	\$0
Current unfunded liability	\$4,778,005



Funding Results

Present Value of Future Benefits

Table I-D

	Old Assumptions	Old Assumptions	New Assumptions
	w/o Amendment	w/ Amendment	w/ Amendment
Actively Employed Participants			
Retirement benefits	\$15,329,994	\$15,329,994	\$15,572,519
Termination benefits	\$424,125	\$424,125	\$434,893
Disability benefits	\$1,062,027	\$1,062,027	\$1,079,499
Death benefits	\$45,652	\$45,652	\$46,266
Refund of employee contributions	\$13,001	\$13,001	\$13,017
Sub-total	\$16,874,799	\$16,874,799	\$17,146,194
Deferred Vested Participants	4	4	
Retirement benefits	\$500,345	\$500,345	\$510,390
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$500,345	\$500,345	\$510,390
Due a Refund of Contributions	\$12,239	\$12,239	\$12,239
Deferred Beneficiaries	\$0	\$0	\$0
Patirad Participants			
Retired Participants Service retirements	\$4,716,978	¢4.716.070	¢4.756.140
	\$2,871,837	\$4,716,978 \$2,871,837	\$4,756,142 \$2,896,380
Disability retirements Beneficiaries receiving	\$107,058	\$107,058	\$107,561
DROP participants	\$597,093	\$597,093	\$602,701
0.75 OF			
Sub-total	\$8,292,966	\$8,292,966	\$8,362,784
Grand Total	\$25,680,349	\$25,680,349	\$26,031,607
Present Value of Future Payroll	\$14,452,891	\$14,452,891	\$14,539,581
Present Value of Future Employee Contribs.	\$1,156,230	\$1,156,230	\$1,163,168
Present Value of Future Employer Contribs.	\$7,054,579	\$7,054,579	\$7,399,983



Present Value of Accrued Benefits

Table I-E

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$9,760,604	\$9,760,604	\$9,886,851
Termination benefits	\$207,928	\$207,928	\$212,335
Disability benefits	\$727,393	\$727,393	\$737,721
Death benefits	\$27,661	\$27,661	\$27,928
Refund of employee contributions	\$8,052	\$8,052	\$8,056
Sub-total	\$10,731,638	\$10,731,638	\$10,872,891
Deferred Vested Participants			
Retirement benefits	\$500,345	\$500,345	\$510,390
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$500,345	\$500,345	\$510,390
Due a Refund of Contributions	\$12,239	\$12,239	\$12,239
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$4,716,978	\$4,716,978	\$4,756,142
Disability retirements	\$2,871,837	\$2,871,837	\$2,896,380
Beneficiaries receiving	\$107,058	\$107,058	\$107,561
DROP participants	\$597,093	\$597,093	\$602,701
Sub-total	\$8,292,966	\$8,292,966	\$8,362,784
Grand Total	\$19,537,188	<u>\$19,537,188</u>	\$19,758,304
Funded Percentage	87.60%	87.60%	86.62%

(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.)



Funding Results

Present Value of Vested Benefits

Table I-F

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$9,750,239	\$9,750,239	\$9,876,335
Termination benefits	\$186,067	\$186,067	\$189,767
Disability benefits	\$727,393	\$727,393	\$737,721
Death benefits	\$27,046	\$27,046	\$27,299
Refund of employee contributions	\$24,583	\$24,583	\$24,686
Sub-total	\$10,715,328	\$10,715,328	\$10,855,808
Deferred Vested Participants			
Retirement benefits	\$500,345	\$500,345	\$510,390
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$500,345	\$500,345	\$510,390
Due a Refund of Contributions	\$12,239	\$12,239	\$12,239
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$4,716,978	\$4,716,978	\$4,756,142
Disability retirements	\$2,871,837	\$2,871,837	\$2,896,380
Beneficiaries receiving	\$107,058	\$107,058	\$107,561
DROP participants	\$597,093	\$597,093	\$602,701
Sub-total	\$8,292,966	\$8,292,966	\$8,362,784
Grand Total	\$19,520,878	\$19,520,878	\$19,741,221



Entry Age Normal Accrued Liability

Table I-G

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$12,293,568	\$12,293,568	\$12,447,174
Termination benefits	\$272,446	\$272,446	\$278,052
Disability benefits	\$764,599	\$764,599	\$774,369
Death benefits	\$34,433	\$34,433	\$34,757
Refund of employee contributions	\$8,437	\$8,437	\$8,441
Sub-total	\$13,373,483	\$13,373,483	\$13,542,793
Deferred Vested Participants			
Retirement benefits	\$500,345	\$500,345	\$510,390
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$500,345	\$500,345	\$510,390
Due a Refund of Contributions	\$12,239	\$12,239	\$12,239
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$4,716,978	\$4,716,978	\$4,756,142
Disability retirements	\$2,871,837	\$2,871,837	\$2,896,380
Beneficiaries receiving	\$107,058	\$107,058	\$107,561
DROP participants	\$597,093	\$597,093	\$602,701
Sub-total	\$8,292,966	\$8,292,966	\$8,362,784
Grand Total	\$22,179,033	\$22,179,033	\$22,428,206
less Actuarial Value of Assets	(\$17,650,201)	(\$17,650,201)	(\$17,650,201)
Unfunded Accrued Liability	\$4,528,832	\$4,528,832	<u>\$4,778,005</u>



Entry Age Normal Cost

Table I-H

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$566,722	\$566,722	\$579,617
Termination benefits	\$26,209	\$26,209	\$26,981
Disability benefits	\$56,163	\$56,163	\$57,254
Death benefits	\$1,735	\$1,735	\$1,771
Refund of employee contributions	\$2,543	\$2,543	\$2,549
Sub-total	\$653,372	\$653,372	\$668,172
Deferred Vested Participants			
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	\$0	\$0	\$0
Due a Refund of Contributions	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$0	\$0	\$0
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
Grand Total	<u>\$653,372</u>	\$653,372	\$668,172



Funding Results

Unfunded Liability Bases

Table I-I

Description	Original <u>Amount</u>	Outstanding <u>Balance</u>	Amortization Payment	Years Rem.
	Total	\$4,778,005	\$429,361	
Initial Unfunded Liability	\$2,458,670	\$2,202,329	\$215,887	17
11/2004 Amendment	\$402,499	\$397,891	\$37,900	18
2004/05 Experience Loss	\$224,223	\$221,661	\$21,114	18
10/1/2005 Assumption Change	(\$497,315)	(\$491,622)	(\$46,828)	18
2005/06 Experience Gain	(\$200,230)	(\$197,451)	(\$18,325)	19
2006/07 Experience Gain	(\$208,490)	(\$213,900)	(\$19,388)	20
2007/08 Experience Loss	\$393,490	\$399,210	\$35,415	21
2008/09 Experience Loss	\$335,935	\$297,225	\$25,855	22
10/1/2009 Assumption Change	\$806,677	\$713,723	\$62,086	22
2009/10 Experience Loss	\$310,935	\$289,912	\$24,771	23
2010/11 Experience Loss	\$54,064	\$50,522	\$4,247	24
7/1/2011 Amendment	\$385,205	\$359,961	\$30,256	24
2011/12 Experience Gain	(\$128,845)	(\$119,445)	(\$9,890)	25
2012/13 Experience Gain	(\$534,105)	(\$501,781)	(\$40,977)	26
2013/14 Experience Gain	\$470,403	(\$451,655)	(\$36,419)	27
2014/15 Experience Gain	(\$244,295)	(\$238,656)	(\$19,021)	28
10/1/2015 Assumption Change	\$391,339	\$382,305	\$30,469	28
2015/16 Experience Loss	\$521,014	\$515,975	\$40,683	29
10/1/2016 Assumption Change	\$1,070,143	\$1,059,792	\$83,562	29
2016/17 Experience Gain	(\$147,164)	(\$147,164)	(\$11,489)	30
10/1/2017 Assumption Change	\$249,173	\$249,173	\$19,453	30



Actuarial Value of Assets

Table II-A

Market Value Ra	ate of Return
-----------------	---------------

For the 2013/14 plan year For the 2014/15 plan year For the 2015/16 plan year For the 2016/17 plan year 8.57% -0.04% 6.21% 13.50%

Average return for the preceding four years 6.95%

Actuarial Value of Assets as of October 1, 2016 \$16,318,310

Plus contributions for the 2016/17 plan year \$1,285,806

Minus benefit payments and administrative expenses for the 2016/17 plan year (\$739,013)

Minus DROP account credits (\$66,461)

Minus advance employer contribution (\$288,845)

Minus excess Chapter 175/185 contribution \$0

Adjustment for interest at the average rate shown above, but restricted to an amount that keeps the actuarial value of assets within an 80%-120% corridor of the market value

\$1,140,404

Actuarial Value of Assets as of October 1, 2017 \$17,650,201

Historical Actuarial Value of Assets

THOUGHTOUT TOTALLIA	value of / toooto
October 1, 2008	\$8,687,759
October 1, 2009	\$9,018,455
October 1, 2010	\$9,659,594
October 1, 2011	\$10,103,821
October 1, 2012	\$10,993,450
October 1, 2013	\$12,361,582
October 1, 2014	\$13,724,189
October 1, 2015	\$15,163,385
October 1, 2016	\$16,318,310
October 1, 2017	\$17,650,201

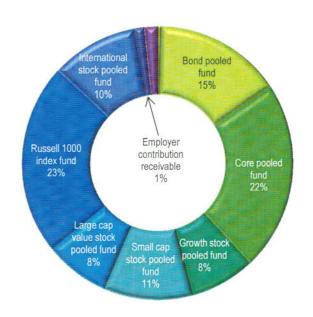


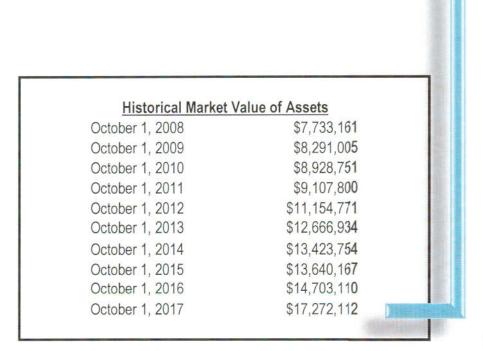
Market Value of Assets

Table II-B

As of October 1, 2017

Market Value of Assets	\$17,272,112	
Cash	\$69,342	
Bond pooled fund	\$2,721,680	
Core pooled fund	\$4,004,509	
Growth stock pooled fund	\$1,386,843	
Small cap stock pooled fund	\$1,906,909	
Large cap value stock pooled fund	\$1,369,508	
Russell 1000 index fund	\$4,039,180	
International stock pooled fund	\$1,837,567	
Employer contribution receivable	\$225,864	
Share plan assets	(\$288,492)	
Due to general plan	(\$798)	







Investment Return

Table II-C



	Market	Actuarial	
Plan	Value	Value	Assumed
Year	Return	Return	Return
2007/08	-12.64%	3.90%	8.00%
2008/09	2.32%	1.80%	8.00%
2009/10	8.99%	2.17%	7.75%
2010/11	0.92%	-0.44%	7.75%
2011/12	16.89%	7.08%	7.75%
2012/13	11.88%	9.50%	7.75%
2013/14	8.57%	9.41%	7.75%
2014/15	-0.04%	9.15%	7.75%
2015/16	6.21%	6.56%	7.50%
2016/17	13.50%	6.95%	7.50%
10yr. Avg.	5.34%	5.55%	7.75%



Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2016	\$14,703,110	\$16,318,310
Increases Due To:		
Employer Contributions Chapter 175/185 Contributions Employee Contributions Service Purchase Contributions Total Contributions	\$870,225 \$215,523 \$195,465 \$4,593 \$1,285,806	\$870,225 \$215,523 \$195,465 \$2,860 \$1,284,073
Interest and Dividends Realized Gains (Losses) Unrealized Gains (Losses) Total Investment Income	\$0 \$0 \$2,022,209 \$2,022,209	\$1,142,137
Other Income	\$0	
Total Income	\$3,308,015	\$2,426,210
Decreases Due To:		
Monthly Benefit Payments Refund of Employee Contributions DROP Benefit Payments / Credits Total Benefit Payments	(\$699,053) \$0 ———————————————————————————————————	(\$699,053) \$0 (\$66,461) (\$765,514)
Investment Expenses Administrative Expenses	\$0 (\$39,960)	(\$39,960)
Advance Employer Contribution Excess Chapter 175/185 Contribution		(\$288,845) \$0
Total Expenses	(\$739,013)	(\$1,094,319)
As of October 1, 2017	\$17,272,112	\$17,650,201



Historical Trust Fund Detail

Table II-E

Income								
				Service		Realized	Unrealized	
Plan	Employer	Chapter	Employee	Purchase	Interest /	Gains /	Gains /	Other
Year	Contribs.	Contribs.	Contribs.	Contribs.	Dividends	Losses	Losses	Income
2007/08	\$302,622	\$226,228	\$169,488	\$68,455	\$0	\$0	-\$1,086,611	\$0
2008/09	\$282,091	\$209,311	\$175,934	\$4,593	\$0	\$0	\$183,618	\$103
2009/10	\$424,435	\$166,029	\$167,321	\$4,593	\$0	\$0	\$740,771	\$0
2010/11	\$654,482	\$163,393	\$160,499	\$4,593	\$0	\$0	\$82,578	\$353
2011/12	\$707,925	\$173,205	\$157,080	\$4,593	\$0	\$0	\$1,577,562	\$0
2012/13	\$560,152	\$219,955	\$156,539	\$4,593	\$0	\$0	\$1,335,905	\$0
2013/14	\$312,623	\$226,179	\$165,766	\$4,593	\$0	\$0	\$1,071,547	\$0
2014/15	\$511,600	\$243,714	\$169,730	\$4,593	\$0	\$0	-\$5,385	\$0
2015/16	\$486,422	\$246,530	\$184,625	\$4,593	\$0	\$0	\$1,141,505	-\$288,492
2016/17	\$870,225	\$215,523	\$195,465	\$4,593	\$0	\$0	\$2,022,209	\$0

Expenses					Other Actuarial Adjustments		
	Monthly				Advance Excess		
Plan	Benefit	Contrib.	Admin.	Invest.	DROP Employer Chapter		
Year	Payments	Refunds	Expenses	Expenses	Credits Contribs. Contribs.		
2007/08	\$249,159	\$36,172	\$30,737	\$0	\$88,501 \$0 \$55,454		
2008/09	\$259,030	\$13,514	\$25,262	\$0	\$162,753 \$0 \$38,537		
2009/10	\$429,220	\$29,993	\$31,483	\$0	-\$175,597 \$6,304 \$0		
2010/11	\$492,323	\$1,875	\$29,946	\$0	-\$194,612 \$165,647 \$0		
2011/12	\$540,329	\$0	\$33,065	\$0	\$127,131 \$171,252 \$2,431		
2012/13	\$572,045	\$15,203	\$33,749	\$0	-\$48,144 \$9,673 \$49,181		
2013/14	\$952,875	\$34,912	\$36,101	\$0	-\$271,135 -\$289,696 \$55,405		
2014/15	\$670,595	\$0	\$37,244	\$0	\$36,221 -\$63,180 \$72,940		
2015/16	\$671,112	\$4,247	\$36,881	\$0	\$55,431 \$0 -\$288,492		
2016/17	\$699,053	\$0	\$39,960	\$0	\$66,461 \$288,845 \$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

DROP Account Reconciliation	DROP	Account	Reconciliation
-----------------------------	------	---------	----------------

DROP Balance as of October 1, 2016	\$91,652
DROP Benefit Credits	\$50,290
DROP Investment Credits	\$16,171
DROP Benefits Paid Out	\$0
Net DROP Credit	\$66,461
DROP Balance as of October 1, 2017	\$158,113
Advance Employer Contribution	
Advance Employer Contribution as of October 1, 2016	\$0
Additional Employer Contribution	\$1,085,748
Minimum Required Contribution	(\$796,903)
Net Increase in Advance Employer Contribution	\$288,845
Advance Employer Contribution as of October 1, 2017	\$288,845
Excess Chapter 175/185 Contribution	

Excess Cha

Excess Chapter 1/5/185 Contribution as of October 1, 2016	\$0
Additional Chapter 175/185 Contribution	\$215,523
Allowable Chapter 175/185 Contribution	(\$215,523)
Transfer to Share Plan	\$0
Net Increase in Excess Chapter 175/185 Contribution	\$0
Excess Chapter 175/185 Contribution as of October 1, 2017	\$0



Historical Chapter 175/185 Contributions

Table II-G

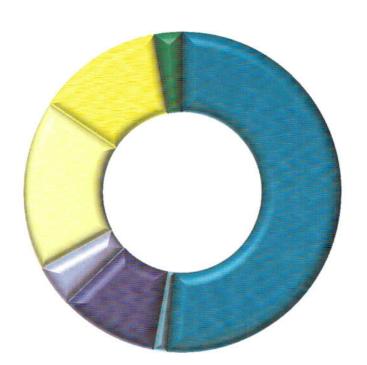
	Total Accumulate	d Excess Chapter 175/	185 Contribution	\$0
	Chapter 175	Chapter 175		
	Regular	Supplemental	Chapter 185	Allowable
	<u>Distribution</u>	<u>Distribution</u>	Distribution	<u>Amount</u>
1998 Distribution	\$28,094	\$0	\$60,060	(\$97,181)
1999 Distribution	\$33,941	\$15,339	\$56,457	(\$93,578)
2000 Distribution	\$31,740	\$19,366	\$58,257	(\$95,378)
2001 Distribution	\$37,929	\$16,678	\$67,811	(\$98,013)
2002 Distribution	\$41,006	\$21,026	\$71,249	(\$98,013)
2003 Distribution	\$43,820	\$22,849	\$82,900	(\$98,013)
2004 Distribution	\$49,580	\$26,317	\$84,223	(\$104,387)
2005 Distribution	\$57,269	\$28,635	\$85,357	(\$354,853)
2006 Distribution	\$67,822	\$31,885	\$85,124	(\$170,774)
2007 Distribution	\$83,675	\$57,762	\$84,791	(\$170,774)
2008 Distribution	\$68,416	\$65,678	\$75,217	(\$170,774)
2009 Distribution	\$68,791	\$21,629	\$75,609	(\$166,029)
2010 Distribution	\$63,479	\$22,142	\$77,772	(\$163,393)
2011 Distribution	\$65,192	\$27,640	\$80,373	(\$170,774)
2012 Distribution	\$101,389	\$35,399	\$83,167	(\$170,774)
2013 Distribution	\$114,037	\$22,671	\$89,471	(\$170,774)
2014 Distribution	\$113,359	\$35,056	\$95,299	(\$170,774)
2015 Distribution	\$123,692	\$24,066	\$98,772	(\$246,530)
2016 Distribution	\$108,870	\$13,246	\$93,407	(\$215,523)
Transfer to Share Plan				(\$288,492)



Summary of Participant Data

Table III-A

As of October 1, 2017



Participant Distribution by Status

Total Participants	70
Beneficiaries Receiving	2
Disability Retirements	9
Service Retirements	12
Participants Receiving a Benefit	
Deferred Beneficiaries	0
Due a Refund of Contributions	3
Deferred Vested Participants	7
Inactive Participants	
DROP Participants	1
Active Participants	36
Actively Employed Participants	

Number of Participants Included in Prior Valuations							
	Active	DROP	Inactive	Retired	Tot al		
October 1, 2008	37	2	4	12	55		
October 1, 2009	36	3	5	17	61		
October 1, 2010	36	3	5	17	61		
October 1, 2011	37	2	4	17	60		
October 1, 2012	36	2	3	19	60		
October 1, 2013	34	1	6	20	61		
October 1, 2014	34	0	7	21	62		
October 1, 2015	36	1	8	22	67		
October 1, 2016	37	1	9	22	69		
October 1, 2017	36	1	10	23	70		



Data Reconciliation

Table III-B

	Active	DROP	Deferred Vested	Due a Refund	Def. Benef.	Service Retiree	Disabled Retiree	Benef. Rec'v.	Total
October 1, 2016	37	1	6	3	0	12	8	2	69
Change in Status Re-employed Terminated Retired	(1) (1)		1				1		
Participation Ended Transferred Out Cashed Out Died									
Participation Began Newly Hired Transferred In New Beneficiary	1								1
Other Adjustment									
October 1, 2017	36	1	7	3	0	12	9	2	70

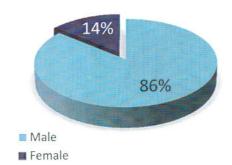


Active Participant Data

Table III-C

As of October 1, 2017

Gender Mix

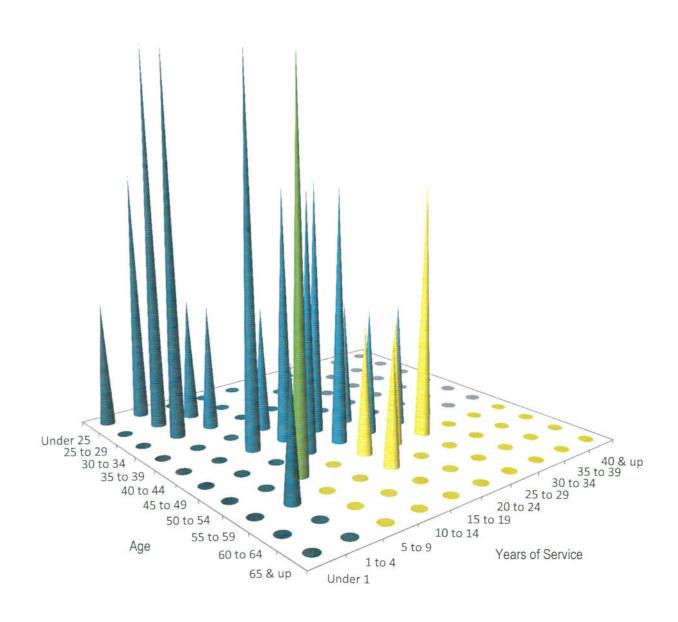


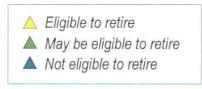
Average Age	41.3 years
Average Service	11.9 years
Total Annualized Compensation for the Prior Year	\$2,382,529
Total Expected Compensation for the Current Year	\$2,419,522
Average Increase in Compensation for the Prior Year	7.89%
Expected Increase in Compensation for the Current Year	4.75%
Accumulated Contributions for Active Employees	\$2,970,004

Actual vs. Expected Salary Increases Active Participant Statistics From Prior Valuations Average Average Actual Expected Salary Average Average Salary Average Service Increase Increase Salary Age 39.9 \$57,159 5.00% 7.42% October 1, 2008 9.5 October 1, 2009 40.6 9.3 \$55,114 5.00% 2.72% 4.75% 5.32% October 1, 2010 37.9 7.8 \$55,906 4.75% -2.72% October 1, 2011 39.2 8.7 \$54,458 October 1, 2012 39.6 9.8 \$54,107 4.75% -1.15% 4.75% 3.97% October 1, 2013 41.0 10.8 \$57,116 1.97% \$58,428 4.75% October 1, 2014 41.2 11.5 4.75% 3.98% 11.0 \$57,527 October 1, 2015 40.1 \$62,975 4.75% 7.66% October 1, 2016 41.1 11.6 4.75% 7.89% October 1, 2017 41.3 11.9 \$66,181



Table III-D







Active Age-Service-Salary Table

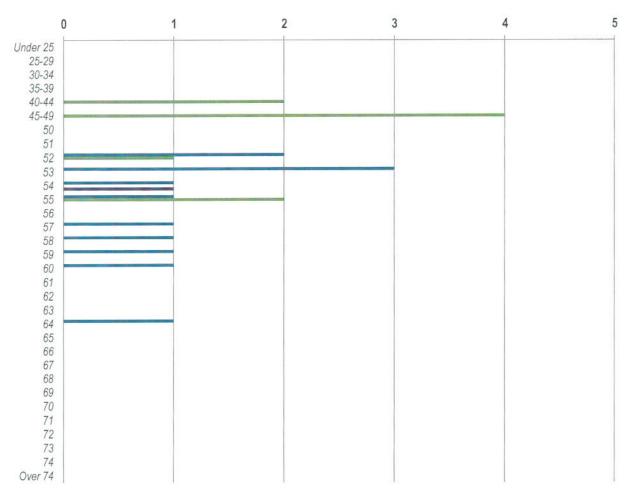
Table III-E

Under 25	1 1,44,989 0 0	1 to 4 2 49,242 3 48,156	5 to 9 0 0	10 to 14 0 0	15 to 19 0 0	20 to 24	25 to 29 0	30 to 34	35 to 39	40 & up	Total
Avg.Pay 5 25 to 29	64,989 0	49,242 3	0	0	500		0	0			
25 to 29	0	3			0	72.5		U	0	0	3
1			1			0	0	0	0	0	51,157
1			1				760		201		
Ava Pav	0	48,156	10.075	0	0	0	0	0	0	0	40.400
Avg.i ay			49,275	0	0	0	0	0	0	0	48,436
30 to 34	0	3	1	0	0	0	0	0	0	0	4
Avg.Pay	0	49,643	49,128	0	0	0	0	0	0	0	49,514
35 to 39	0	0	0	1	0	0	0	0	0	0	1
Avg.Pay	0	0	0	57,499	0	0	0	0	0	0	57,499
40 40 44		٥	2	2	2	1	0	۰	0	0	0
40 to 44 Avg.Pay	0	0	3 54,712	2 57,441	2 77,277	87,620	0 0	0	0	0 0	8 65,149
Avg.ray	0	U	54,712	57,441	11,211	07,020	U	0	0	U	00,143
45 to 49	0	0	0	2	2	1	1	1	0	0	7
Avg.Pay	0	0	0	65,239	85,597	88,740	111,172	72,632	0	0	82,031
50 to 54	0	0	3	0	1	1	2	0	0	0	7
Avg.Pay	0	0	53,935	0	81,235	113,081	95,434	0	0	0	78,141
55 to 59	0	1	0	0	1	0	0	0	0	0	2
Avg.Pay	0	53,255	0	0	84,107	0	0	0	0	0	68,681
/wg.r dy		00,200	Ü		01,107		J			Ü	00,001
60 to 64	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
65 & up	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
Total				-		_					0.0
Total Avg.Pay 54	1 4,989	9 49,459	53,043	5 60,572	6 81,848	3 96,480	3 100,680	72,632	0	0 0	36 66,181
Avg.ray 3	7,303	40,400	00,040	00,312	01,040	30,400	100,000	12,002	U	U	00,101



Inactive Participant Data

Table III-F



Age at Retirement

- Service Retirements
- Disability Retirements
- DROP Participants

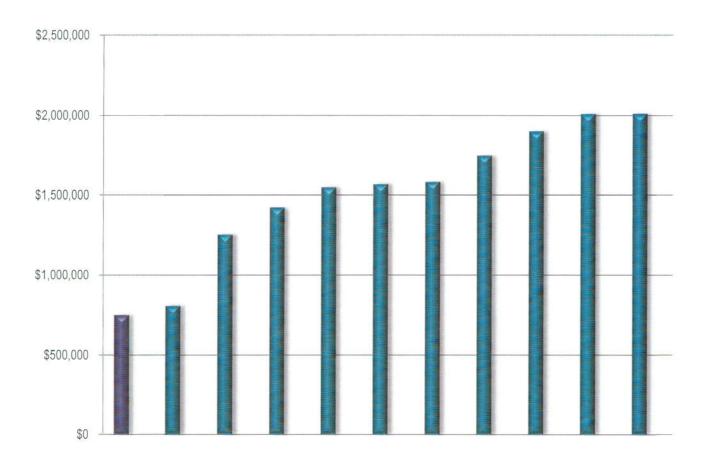
Average Monthly Benefit

Service Retirements	\$3,053.76
Disability Retirements	\$2,451.65
Beneficiaries Receiving	\$735.29
DROP Participants	\$4,190.80
Deferred Vested Participants	\$1,095.27
Deferred Beneficiaries	Not applicable



Projected Benefit Payments

Table III-G



<u>Actual</u>	
For the period October 1, 2016 through September 30, 2017	\$749,343

Projected For the period October 1, 2017 through September 30, 2018 \$806,717 For the period October 1, 2018 through September 30, 2019 \$1,256,017 For the period October 1, 2019 through September 30, 2020 \$1,422,993 For the period October 1, 2020 through September 30, 2021 \$1,549,011 For the period October 1, 2021 through September 30, 2022 \$1,569,329 For the period October 1, 2022 through September 30, 2023 \$1,582,770 For the period October 1, 2023 through September 30, 2024 \$1,748,162 For the period October 1, 2024 through September 30, 2025 \$1,901,046 For the period October 1, 2025 through September 30, 2026 \$2,011,330 For the period October 1, 2026 through September 30, 2027 \$2,011,841



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. Under this actuarial cost method, a level funding cost is developed with respect to each benefit for each participant. The level funding cost for each benefit applies to the period beginning when the participant's service commences and ends when the participant is assumed to cease active participation due to each respective decrement. The actuarial accrued liability is equal to the accumulated level funding cost to the valuation date for all participants. The normal cost is equal to the level funding cost for the year immediately following the valuation date for all active participants.

2. Amortization Method

The unfunded actuarial accrued liability is amortized as a level dollar amount over a period of up to 30 years.

Asset Method

The actuarial value of assets is equal to the prior year's actuarial value of assets adjusted for contributions, benefit payments, and expenses and further adjusted by the average return on the market value of assets for the preceding four years; the actuarial value of assets is restricted to 80% to 120% of the market value.

4. Interest (or Discount) Rate

7.40% per annum

(EXCEPTION: The actuary has recommended an assumed interest rate of 7.00% per annum based on the investment consultant's best estimate of the long-term expected rate of return for the plan's 60%/40% mix of stocks and fixed income investments. The Board of Trustees has elected to use a 7.40% interest rate assumption for this valuation, but has established a target rate of 7.00% to be realized by reducing the assumed interest rate by 0.10% per year for each of the next four years. It is anticipated that the 7.00% interest rate assumption will first be utilized for the October 1, 2021 actuarial valuation of the plan.)

5. Salary Increases

Plan compensation is assumed to increase at the rate of 4.75% per annum, unless actual plan compensation is known for a prior plan year. In addition, average monthly earnings have been adjusted for each active participant to reflect the anticipated payment of the number of hours of accrued sick leave and annual leave that were accumulated as of June 30, 2011.



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

Decrements

Pre-retirement mortality: Sex-distinct rates set forth in the RP-2000 Combined Mortality Table, with full

generational improvements in mortality using Scale BB

Post-retirement mortality: Sex-distinct rates set forth in the RP-2000 Combined Mortality Table, with full

generational improvements in mortality using Scale BB

• Disability: Sex-distinct rates set forth in the Wyatt 1985 Disability Study (Class 4);

All disabilities are assumed to be service-related.

• Termination: Sex-distinct rates set forth in the Scale 155 Table

• Retirement: Retirement is assumed to occur upon the attainment of age 52 with at least

five years of service, except that those participants who have attained their normal retirement age as of the valuation date are assumed to retire one year after the valuation date. Alternatively, participants who have attained age 50 with at least 10 years of service are assumed to retire at the rate of 2.50%

per annum.

7. Form of Payment

Future retirees have been assumed to select the 10-year certain and life annuity.

8. Beneficiary Age and Gender

Where beneficiary information is unavailable, beneficiaries have been assumed to be of the opposite gender of the participant, with males assumed to be three years older than females.

Expenses

Administrative expenses are assumed to be 1.25% of future payroll. In addition, the interest rate set forth in item 4. above is assumed to be net of investment expenses and commissions.



Changes in Actuarial Methods and Assumptions

Table IV-B

Since the completion of the previous valuation, the interest (or discount) rate was changed from 7.50% per annum to 7.40% per annum.

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

- (1) Effective October 1, 2016, the mortality basis was changed from a 2007 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.
- (2) Effective October 1, 2015, the interest (or discount) rate was decreased from 7.75% per annum to 7.50% per annum.
- (3) Effective October 1, 2012, the assumed payroll growth for purposes of amortizing the unfunded liability was eliminated.
- (4) Effective October 1, 2011, the assumed payroll growth for purposes of amortizing the unfunded liability was decreased from 1.75% per year to 1.50% per year.
- (5) Effective October 1, 2010, the assumed payroll growth for purposes of amortizing the unfunded liability was decreased from 5.00% per year to 1.75% per year.
- (6) Effective October 1, 2009, the interest rate was decreased from 8.00% per annum to 7.75% per annum.
- (7) Effective October 1, 2009, the salary increase rate was decreased from 5.00% per annum to 4.75% per annum.
- (8) Effective October 1, 2009, the pre-retirement mortality basis was changed from the 1983 Group Annuity Mortality Table to the RP-2000 Mortality Table for non-annuitants.
- (9) Effective October 1, 2009, the post-retirement mortality basis was changed from the 1983 Group Annuity Mortality Table to the RP-2000 Mortality Table for annuitants.
- (10) Effective October 1, 2009, the assumed incidence of disability was changed from a range of rates (0.14% at age 20 graded up to 1.00% at age 50) to the sex-distinct rates set forth in the Wyatt 1985 Disability Study (Class 4).
- (11) Effective October 1, 2009, the assumed incidence of termination was changed from a range of rates (6.00% at age 20 graded down to 0.80% at age 50) to the sex-distinct rates set forth in the Scale 155 Table.



Changes in Actuarial Methods and Assumptions

Table IV-B

(continued)

- (13) Effective October 1, 2009, the assumed incidence of retirement prior to normal retirement age was changed from 2.00% per annum to 2.50% per annum.
- (14) Effective October 1, 2009, the assumed administrative expenses were changed from \$22,500 per annum to 1.25% of future payroll.



Table V-A

1. Benefit Formula

3% of Average Monthly Earnings multiplied by Credited Service (§46-58(b)(1))

2. Service Retirement

Normal retirement: Age 52 with at least five years of participation (§46-58(a)(1))

Early retirement: Age 50 with at least 10 years of credited service (§46-58(a)(2))

(Note: In the case of early retirement, the participant's benefit is reduced by 3% for each year by which the participant's early retirement age precedes his normal retirement age.) (§46-58(b)(2))

3. Disability Retirement

Service-based disability: Participant must be disabled during the course of his employment with the City.

(§46-58(c)(1))

Non-service disability: Participant must have earned at least 10 years of credited service. (§46-58(c)(1))

The disability benefit is a monthly 10-year certain and life annuity equal to the larger of the monthly accrued benefit or either 42% of average monthly earnings (for service-based disability) or 25% of average monthly earnings (for non-service disability), but offset as necessary to preclude the total of the participant's worker's compensation, disability benefit, and other City-financed disability or salary continuation benefit (excluding social security benefits) from exceeding his average monthly earnings. A partial month's payment is made to cover the period between the date of the Board's approval and the end of the month. (§46-58(c)(4),(5),&(6))

(A participant is disabled if he is found to be mentally or physically incapacitated so as to be wholly unable to properly perform his duties as a police officer or firefighter and is likely to remain so disabled continuously and permanently. However, a participant will not be eligible for a disability benefit if his disability is caused by excessive and habitual use of drugs, intoxicants, or narcotics; by injury or disease sustained while serving in the armed forces; by injury or disease sustained while willfully and illegally participating in fights, riots, or civil insurrections, or while committing a crime; by injury or disease sustained after termination of employment; or by a self-inflicted injury.) (§§46-58(c)(1)&(2))



Table V-A

(continued)

4. Deferred Vested Retirement

A vested participant who terminates employment before becoming eligible for retirement receives a deferred vested retirement benefit payable at the participant's early or normal retirement age. If the benefit is payable prior to normal retirement age, then the benefit is actuarially reduced to account for the earlier commencement of the benefit. (§46-58(e)(1))

A non-vested participant who terminates employment receives his accumulated contributions. (§46-58(e)(2))

5. Vesting

A participant becomes 100% vested upon the attainment of five years of credited service. For this purpose, service includes service earned under the City of Satellite Beach General Employees' Retirement System. (§46-58(e)(1))

6. Pre-Retirement Death Benefit

If a vested participant dies prior to retirement, the participant's beneficiary receives a 10-year certain annuity equal to the participant's monthly accrued benefit payable beginning at the participant's early or normal retirement age. At the beneficiary's election and upon approval by the Board of Trustees, an actuarially equivalent benefit is payable at any time following the participant's death. In any event, the pre-retirement death benefit guarantees at least the return of the participant's accumulated contributions. (§46-58(d))

If a non-vested participant dies prior to retirement, the participant's beneficiary receives the participant's accumulated contributions. (§46-58(d)(1))

7. Form of Payment

Actuarially increased single life annuity (optional);

10-year certain and life annuity (normal form of payment);

Actuarially reduced 50% joint and contingent annuity with a relative as the joint annuitant (optional);

Actuarially reduced 662/3% joint and contingent annuity with a relative as the joint annuitant (optional);

Actuarially reduced 75% joint and contingent annuity with a relative as the joint annuitant (optional);



Table V-A

(continued)

Actuarially reduced 100% joint and contingent annuity with a relative as the joint annuitant (optional); or

Any other actuarially equivalent form of payment approved by the Board of Trustees (optional)

(Note: All forms of payment guarantee at least the return of the participant's accumulated contributions.)

(§46-58(b)(1), §46-59, & §46-60(a)(2))

8. Average Monthly Earnings

Average monthly earnings during the highest consecutive three years out of the 10 years immediately preceding the determination. Earnings include base pay, commissions, bonuses, maintenance pay, overtime pay, payments for accrued sick leave, and vacation pay, although payment for accrued sick and annual leave are limited to the number of hours accumulated as of June 30, 2011 multiplied by the pay rate that is in effect at the time of employment termination. Earnings cannot exceed the maximum amount allowed under IRC section 401(a)(17). (§46-56)

9. Credited Service

The service, expressed in years and completed months, from the participant's date of hire until his date of termination, retirement, or death, excluding periods during which the participant does not make the required employee contribution. Participants may also purchase up to five years of credited service for benefit accrual purposes only for previous full-time employment as a police officer or full-time or volunteer employment as a firefighter with any federal, state, county, or city government, including military service, by paying into the plan the full actuarial cost thereof, provided that no other retirement benefit is paid for such service. Payment for purchased service must be made within a period of time equal to the length of service being purchased. (§46-56 & §46-67)

10. Employee Contribution

Employees must contribute 8.00% of earnings and such contributions are accumulated with interest at the rate of 5.50% per annum. (§46-56 & §46-60(a)(1))

11. City Contribution

The City is required to make quarterly contributions as determined in the most recent actuarial valuation of the retirement system. (§46-60(b))



Table V-A

(continued)

12. Deferred Retirement Option Plan (DROP)

A DROP is available to those participants who have attained their normal retirement age, whereby the participant's monthly retirement benefit is accumulated on his behalf in a DROP account while he continues in active employment with the City. Individuals may participate in the DROP for a period of 12 to 60 months and neither earn additional benefits nor make the required employee contribution during the period of their DROP participation. DROP participants are considered to be retired for all other purposes under the plan and are not eligible for disability or pre-retirement death benefits. DROP accounts earn interest equal to the investment return realized by the market value of assets or the investment return realized by a stable return investment vehicle (as elected by the participant from time to time). (§46-66)

13. Participant Requirement

All full-time firefighters and sworn police officers of the City of Satellite Beach, Florida, excluding civilian members of the fire and police departments and temporary and contract employees, are eligible to participate in the plan. (§46-57(a))

14. Actuarial Equivalence

Based on 8.00% interest per annum and the 1984 Uninsured Pensioner Mortality Table (§46-56)

15. Retiree Increases

Retirement benefits in payment status on October 1, 1997 were increased by 1.00%. (§46-58(b)(3))

Plan Effective Date

The plan was originally effective on May 22, 1973.



Summary of Plan Amendments

Table V-B

No significant plan changes were adopted since the completion of the previous valuation.

The following additional plan amendments were adopted during the past 10 years and were reflected in prior valuation reports:

- (1) Effective January 15, 2014, the 0.1875% daily administrative charge on the DROP accounts was eliminated retroactively for the period December 6, 2004 through July 3, 2013. (Ordinance No. 1083)
- (2) Effective July 3, 2013, the 0.1875% daily administrative charge on the DROP accounts was eliminated. (Ordinance No. 1071)
- (3) Effective during the 2010/11 fiscal year, the definition of plan compensation was amended to limit payments for accrued sick and annual leave to the number of hours accumulated as of June 30, 2011 multiplied by the pay rate in effect at the time of employment termination.
- (4) Effective during the 2008/09 fiscal year, individuals who are participating in the DROP are allowed to choose between the return on the market value of assets or the return on the stable return investment vehicle up to twice per year instead of once per year. In addition, such individuals were given a one-time opportunity to make this choice specifically for the period June 1, 2009 through August 31, 2009. (Ordinance No. 1011)

