CITY OF PANAMA CITY SUPPLEMENTAL RETIREMENT PLAN FOR DESIGNATED GENERAL EMPLOYEES

ACTUARIAL VALUATION AS OF OCTOBER 1, 2018

DETERMINES THE CONTRIBUTION FOR THE 2019/20 FISCAL YEAR



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February 1, 2019

Introduction

This report presents the results of the October 1, 2018 actuarial valuation for the City of Panama City Supplemental Retirement Plan for Designated General Employees. 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, 2018 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2019/20 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 normal cost rate.

Minimum Required Contribution

Table I-A shows the development of the minimum required contribution for the 2019/20 plan year. The minimum required contribution rate is 6.47% of covered payroll, which represents a decrease of 2.63% of payroll from the prior valuation.

The normal cost rate is 6.64%, which is 2.62% less than the normal cost rate that was developed in the prior valuation. Table I-C provides a breakdown of the sources of change in the normal cost rate. Significantly, the rate decreased by 0.19% of payroll due to investment gains and decreased by another 2.43% of payroll due to demographic experience. The market value of assets earned 7.48% during the 2017/18 plan year, whereas a 7.00% annual investment return was required to maintain a stable contribution rate.

Chapter 112, Florida Statutes, sets forth the rules concerning the minimum required contribution for public pension plans within the state. Essentially, the City must contribute an amount equal to the annual normal cost of the plan plus



an adjustment as necessary to reflect interest on any delayed payment of the contribution beyond the valuation date. On this basis, the City's 2019/20 minimum required contribution will be equal to 6.47% multiplied by the total pensionable earnings for the 2019/20 fiscal year for the active employees who are covered by the plan.

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 \$4,271,760. As illustrated in Table I-A, current assets are sufficient to cover \$3,365,609 of this amount, the employer's 2018/19 expected contribution will cover \$102,339 of this amount, the employer's 2019/20 expected contribution will cover \$75,674 of this amount, and future employee contributions are expected to cover \$366,120 of this amount, leaving \$362,018 to be covered by future employer funding beyond the 2019/20 fiscal year. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

Contents of the Report

Tables I-D through I-G provide a detailed breakdown of various liability amounts by type of benefit and by participant group. Tables II-A through II-F provide information concerning the assets of the trust fund. Tables III-A through III-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, 2018, as well as a summary of the changes that have occurred since the previous valuation report was prepared.

Certification

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

For the firm.

Charles T. Carr

Consulting Actuary

Southern Actuarial Services Company, Inc.

Enrolled Actuary No. 17-04927

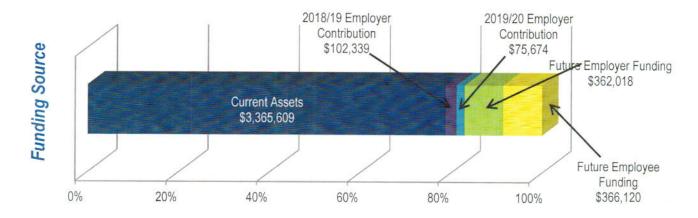
Chee J C.

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 2019/20 Plan Year

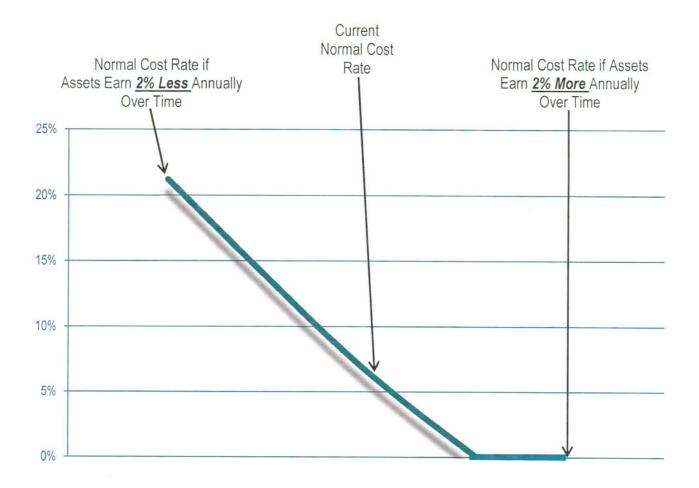
Present Value of Future Benefits	\$4,177,760
Present Value of Future Administrative Expenses	\$94,000
Actuarial Value of Assets	(\$3,365,609)
Present Value of Future Employee Contributions	(\$366,120)
Present Value of Future Normal Costs	\$540,031
Present Value of Future Payroll	÷ \$8,136,003
Normal Cost Rate	= 6.6375%
Expected Payroll _	x \$1,124,599
Normal Cost	\$74,646
Adjustment to Reflect Monthly Employer Contributions	\$2,772
Expected Employer Contribution for the 2018/19 Plan Year	(\$102,339)
Remaining Contribution Due/(Credit) for the 2018/19 Plan Year	(\$24,921)
_	x 0.07
One Year's Interest Charge/(Credit) on the Remaining Contribution	(\$1,744)
Preliminary Employer Contribution for the 2019/20 Plan Year	\$75,674
Expected Payroll for the 2019/20 Plan Year	÷ \$1,169,583
Minimum Required Contribution Rate	6.47%

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



Sensitivity Analysis

Table I-B



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



Gain and Loss Analysis

Table I-C

Previous normal cost rate	9.26%
Increase (decrease) due to investment gains and losses Increase (decrease) due to demographic experience	-0.19% -2.43%
Increase (decrease) due to plan amendments Increase (decrease) due to actuarial assumption changes Increase (decrease) due to actuarial method changes	0.00% 0.00% 0.00%
Current normal cost rate	6.64%



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	\$1,566,949	\$1,566,949	\$1,566,949
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,566,949	\$1,566,949	\$1,566,949
Deferred Vested Participants			
Retirement benefits	\$267,436	\$267,436	\$267,436
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$267,436	\$267,436	\$267,436
	*40.000	***	
Due a Refund of Contributions	\$18,226	\$18,226	\$18,226
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Potivo d Poutisin auto			
Retired Participants	¢4 740 00F	C4 740 005	01 710 005
Service retirements	\$1,749,905	\$1,749,905	\$1,749,905
Disability retirements	\$0 \$575 244	\$0	\$0
Beneficiaries receiving	\$575,244	\$575,244	\$575,244
DROP participants Sub-total	\$0	\$0	\$0
Sub-total	\$2,325,149	\$2,325,149	\$2,325,149
Grand Total	\$4,177,760	\$4,177,760	\$4,177,760
Present Value of Future Payroll	\$8,136,003	\$8,136,003	\$8,136,003
Present Value of Future Employee Contribs.	\$366,120	\$366,120	\$366,120
Present Value of Future Employer Contribs.	\$540,031	\$540,031	\$540,031
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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 Termination benefits Disability benefits Death benefits Refund of employee contributions Sub-total	\$729,809 \$0 \$0 \$0 \$0 \$0 \$729,809	\$729,809 \$0 \$0 \$0 \$0 \$0 \$729,809	\$729,809 \$0 \$0 \$0 \$0 \$0 \$729,809
Deferred Vested Participants			
Retirement benefits Termination benefits Disability benefits Death benefits Refund of employee contributions Sub-total	\$267,436 \$0 \$0 \$0 \$0 \$0 \$267,436	\$267,436 \$0 \$0 \$0 \$0 \$267,436	\$267,436 \$0 \$0 \$0 \$0 \$267,436
Due a Refund of Contributions	\$18,226	\$18,226	\$18,226
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements Disability retirements Beneficiaries receiving DROP participants Sub-total	\$1,749,905 \$0 \$575,244 \$0 \$2,325,149	\$1,749,905 \$0 \$575,244 \$0 \$2,325,149	\$1,749,905 \$0 \$575,244 \$0 \$2,325,149
Grand Total	\$3,340,620	<u>\$3,340,620</u>	<u>\$3,340,620</u>
Funded Percentage	100.75%	100.75%	100.75%

(Note: Funded percentage is equal to the ratio of the usable portion of the market value of assets divided by the present value of accrued benefits.)



Present Value of Vested Benefits

Table I-F

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$605,667	\$605,667	\$605,667
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$605,667	\$605,667	\$605,667
Deferred Vested Participants			
Retirement benefits	\$267,436	\$267,436	\$267,436
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$267,436	\$267,436	\$267,436
Due a Refund of Contributions	\$18,226	\$18,226	\$18,226
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$1,749,905	\$1,749,905	\$1,749,905
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$575,244	\$575,244	\$575,244
DROP participants	\$0	\$0	\$0
Sub-total	\$2,325,149	\$2,325,149	\$2,325,149
Grand Total	\$3,216,478	\$3,216,478	\$3,216,478



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	\$831,562	\$831,562	\$831,562
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$831,562	\$831,562	\$831,562
Deferred Vested Participants			
Retirement benefits	\$267,436	\$267,436	\$267,436
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$267,436	\$267,436	\$267,436
Due a Refund of Contributions	\$18,226	\$18,226	\$18,226
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$1,749,905	\$1,749,905	\$1,749,905
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$575,244	\$575,244	\$575,244
DROP participants	\$0	\$0	\$0
Sub-total	\$2,325,149	\$2,325,149	\$2,325,149
Grand Total	\$3,442,373	\$3,442,373	\$3,442,373



Actuarial Value of Assets

Table II-A

Market Value of Assets as of October 1, 2018

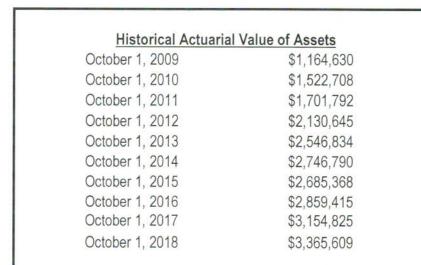
\$3,365,609

Minus advance employer contributions

\$0

Actuarial Value of Assets as of October 1, 2018

\$3,365,609



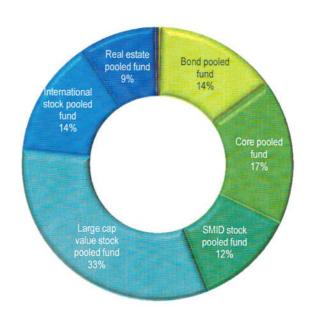


Market Value of Assets

Table II-B

As of October 1, 2018

Market Value of Assets	\$3,365,609
Cash	\$13,404
Bond pooled fund	\$485,914
Core pooled fund	\$576,395
SMID stock pooled fund	\$402,136
Large cap value stock pooled fund	\$1,095,821
International stock pooled fund	\$475,861
Real estate pooled fund	\$301,602
Employer contribution receivable	\$10,432
Employee contribution receivable	\$4,044



Historical Market Value of Assets October 1, 2009 \$1,164,630 October 1, 2010 \$1,522,708 October 1, 2011 \$1,710,525 October 1, 2012 \$2,130,645 October 1, 2013 \$2,546,834 October 1, 2014 \$2,746,790 October 1, 2015 \$2,685,368 October 1, 2016 \$2,859,415 October 1, 2017 \$3,154,825 October 1, 2018 \$3,365,609



Table II-C Investment Return



	Market	Actuarial	
Plan	Value	Value	Assumed
Year	Return	Return	Return
2008/09	4.44%	4.48%	7.50%
2009/10	9.05%	9.05%	7.50%
2010/11	0.43%	0.43%	7.50%
2011/12	16.93%	16.97%	7.50%
2012/13	11.90%	11.90%	7.50%
2013/14	8.60%	8.60%	7.00%
2014/15	0.07%	0.07%	7.00%
2015/16	8.21%	8.21%	7.00%
2016/17	13.45%	13.45%	7.00%
2017/18	7.48%	7.48%	7.00%
10yr. Avg.	7.94%	7.94%	7.25%



Actuarial Value Return Assumed Return

Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2017	\$3,154,825	\$3,154,825
Increases Due To:		
Employer Contributions	\$133,443	\$133,443
Employee Contributions Service Purchase Contributions Total Contributions	\$51,728 \$0 \$185,171	\$51,728 \$0 \$185,171
Interest and Dividends Realized Gains (Losses) Unrealized Gains (Losses) Total Investment Income	\$0 \$0 \$234,985 \$234,985	\$234,985
Other Income	\$0	
Total Income	\$420,156	\$420,156
Decreases Due To:		
Monthly Benefit Payments Refund of Employee Contributions	(\$187,835) \$0	(\$187,835) \$0
Total Benefit Payments	(\$187,835)	(\$187,835)
Investment Expenses Administrative Expenses	\$0 (\$21,537)	(\$21,537)
Advance Employer Contribution		\$0
Total Expenses	(\$209,372)	(\$209,372)
As of October 1, 2018	\$3,365,609	\$3,365,609



Historical Trust Fund Detail

Table II-E

1							
1	1	η	C	n	n	7	0
		,	v	v	,,	ı	u

			Service		Realized	Unrealized	
Plan	Employer	Employee	Purchase	Interest /	Gains /	Gains /	Other
Year	Contribs.	Contribs.	Contribs.	Dividends	Losses	Losses	Income
2008/09	\$204,625	\$52,920	\$0	\$0	\$0	\$45,168	\$14
2009/10	\$252,971	\$53,595	\$0	\$0	\$0	\$116,340	\$0
2010/11	\$227,112	\$51,830	\$0	\$0	\$0	\$6,990	\$0
2011/12	\$198,781	\$53,309	\$0	\$0	\$0	\$299,722	\$0
2012/13	\$215,106	\$56,115	\$0	\$0	\$0	\$262,733	\$0
2013/14	\$83,416	\$59,206	\$0	\$0	\$0	\$218,211	\$0
2014/15	\$75,852	\$54,179	\$0	\$0	\$0	\$1,838	\$0
2015/16	\$94,097	\$57,925	\$0	\$0	\$0	\$218,716	\$0
2016/17	\$120,859	\$56,300	\$0	\$0	\$0	\$378,842	\$0
2017/18	\$133,443	\$51,728	\$0	\$0	\$0	\$234,985	\$0

Ev	noi	nses	
	Dei	15 US	

Other Actuarial Adjustments

					Other Actuarian Aujustinients
	Monthly				Advance
Plan	Benefit	Contrib.	Admin.	Invest.	Employer
<u>Year</u>	Payments	Refunds	Expenses	Expenses	Contribs.
2008/09	\$45,651	\$0	\$7,751	\$0	-\$17,651
2009/10	\$57,471	\$0	\$7,357	\$0	\$0
2010/11	\$67,582	\$18,810	\$11,723	\$0	\$8,733
2011/12	\$88,402	\$27,802	\$15,488	\$0	-\$8,733
2012/13	\$101,516	\$0	\$16,249	\$0	\$0
2013/14	\$127,121	\$15,145	\$18,611	\$0	\$0
2014/15	\$171,948	\$2,842	\$18,501	\$0	\$0
2015/16	\$181,415	\$0	\$15,276	\$0	\$0
2016/17	\$184,543	\$53,725	\$22,323	\$0	\$0
2017/18	\$187,835	\$0	\$21,537	\$0	\$0



Other Reconciliations

Table II-F

Advance Employer Contribution

Advance Employer Contribution as of October 1, 2017	\$0
Additional Employer Contribution	\$133,443
Minimum Required Contribution	(\$133,443)
Net Increase in Advance Employer Contribution	\$0
Advance Employer Contribution as of October 1, 2018	\$0



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Summary of Participant Data

Table III-A

As of October 1, 2018

Participant Distribution by Status

Actively Employed Participants Active Participants 16 **DROP** Participants 0 Inactive Participants Deferred Vested Participants 3 1 Due a Refund of Contributions **Deferred Beneficiaries** 0 Participants Receiving a Benefit Service Retirements 13 **Disability Retirements** 0 Beneficiaries Receiving 1

Total Participants

	Active	DROP	Inactive	Retired	Total
October 1, 2009	18	0	3	4	25
October 1, 2010	18	0	3	4	25
October 1, 2011	17	0	3	5	25
October 1, 2012	19	0	2	7	28
October 1, 2013	18	0	1	11	30
October 1, 2014	18	0	2	13	33
October 1, 2015	17	0	1	14	32
October 1, 2016	18	0	1	14	33
October 1, 2017	17	0	2	14	33
October 1, 2018	16	0	4	14	34



Data Reconciliation

Table III-B

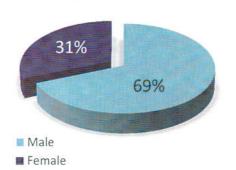
	Active	DROP	Deferred <u>Vested</u>	Due a Refund	Def. Benef.	Service Retiree	Disabled Retiree	Benef. Rec'v.	Total
October 1, 2017	17	0	2	0	0	13	0	1	33
Change in Status Re-employed Terminated Retired	(2)		1	1					
Participation Ended Transferred Out Cashed Out Died									
Participation Began Newly Hired Transferred In New Beneficiary	1								1
Other Adjustment									
October 1, 2018	16	0	3	1	0	13	0	1	34



Active Participant Data

Table III-C

Gender Mix



As of October 1, 2018

Average Age	53.8 years
Average Service	5.7 years
Total Annualized Compensation for the Prior Year	\$1,081,347
Total Expected Compensation for the Current Year	\$1,124,599
Average Increase in Compensation for the Prior Year	3.42%
Expected Increase in Compensation for the Current Year	4.00%
Accumulated Contributions for Active Employees	\$270,405

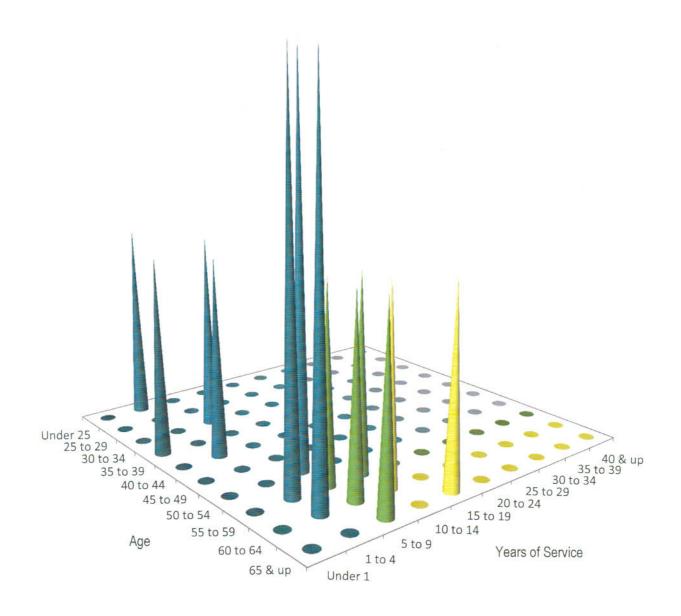


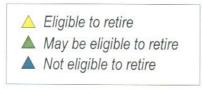
Active Participant Statistics From Prior Valuations Average

				Average	Average	
				Expected	Actual	
	Average	Average	Average	Salary	Salary	
	Age	Service	Salary	Increase	Increase	
October 1, 2009	54.5	6.9	\$64,038	5.00%	3.97%	
October 1, 2010	55.5	7.9	\$66,167	5.00%	2.58%	
October 1, 2011	56.8	7.5	\$62,388	5.00%	-1.61%	
October 1, 2012	54.1	6.3	\$59,851	5.00%	2.18%	
October 1, 2013	51.8	5.7	\$61,160	5.00%	2.19%	
October 1, 2014	49.8	3.7	\$62,878	4.00%	5.96%	
October 1, 2015	50.7	4.9	\$68,099	4.00%	3.51%	
October 1, 2016	51.9	5.4	\$71,514	4.00%	3.24%	
October 1, 2017	53.6	5.5	\$64,924	4.00%	4.55%	
October 1, 2018	53.8	5.7	\$67,584	4.00%	3.42%	



Table III-D







Active Age-Service-Salary Table

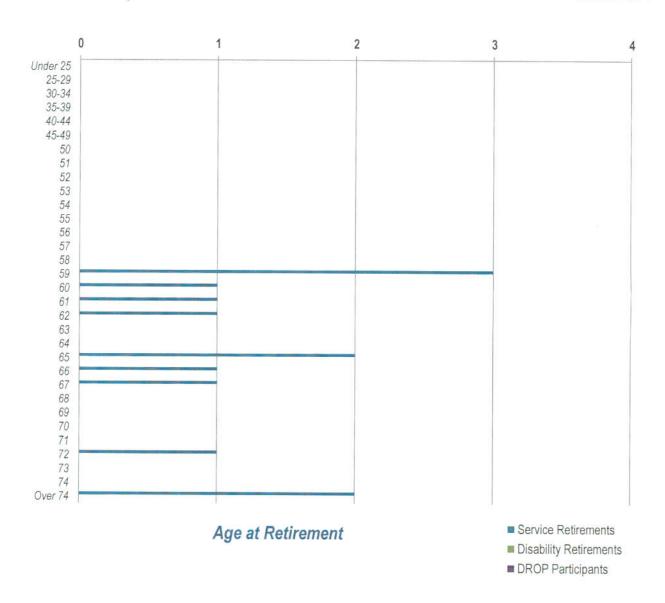
Table III-E

Attained					Complet	ted Years o	f Service				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
						VAR					
Under 25 Avg.Pay	0 0	67 140	0	0	0	0	0	0	0	0	1
Avg.ray	U	67,140	0	0	0	0	0	0	0	0	67,140
25 to 29	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
30 to 34	0	0	1	0	0	0	0	0	0	0	1
Avg.Pay	0	0	84,517	0	0	0	0	0	0	0	84,517
35 to 39	1	0	0	0	0	0	0	0	0	0	1
Avg.Pay	83,926	0	0	0	0	0	0	0	0	0	83,926
40 to 44	0	1	0	0	0	0	0	0	0	0	1
Avg.Pay	0	24,559	0	0	0	0	0	0	0	0	24,559
45 to 49	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
						95.11					
50 to 54	0	0	2	0	0	0	0	0	0	0	2
Avg.Pay	0	0	88,383	0	0	0	0	0	0	0	88,383
55 to 59	0	2	1	1							
Avg.Pay	0	71,779	24,559	86,304	0 0	0	0	0	0 0	0	63,605
5 7			2 1,000	00,001			· ·	١	U	0	03,003
60 to 64	0	2	1	1	0	0	0	0	0	0	4
Avg.Pay	0	103,097	26,359	24,559	0	0	0	0	0	0	64,278
65 & up	0	0	4	_							ø
Avg.Pay	0	0	1 24,559	0	1 108,348	0	0	0	0	0	2
g.i uj	J	0	24,000	J	100,040	U	U	U	0	0	66,454
Total	1	6	6	2	1	0	0	0	0	0	16
Avg.Pay	83,926	73,575	56,127	55,432	108,348	0	0	0	0	0	67,584



Inactive Participant Data

Table III-F



Average Monthly Benefit

Service Retirements	\$1,002.46
Disability Retirements	Not applicable
Beneficiaries Receiving	\$2,689.97
DROP Participants	Not applicable

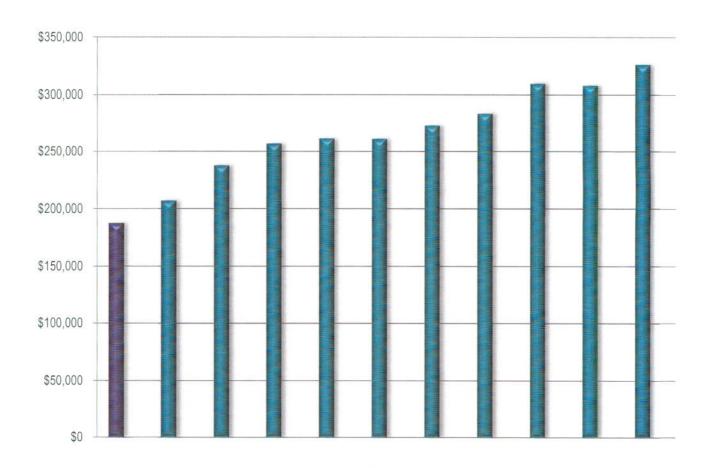
Deferred Vested Participants \$782.71

Deferred Beneficiaries Not applicable



Projected Benefit Payments

Table III-G



ember 30, 2018	\$187,835
Substitution of the Committee of the Com	, , , , , , , , , , , ,
ember 30, 2019	\$207,263
	\$237,710
	Control of the Contro
ember 30, 2021	\$257,008
ember 30, 2022	\$261,716
ember 30, 2023	\$261,382
ember 30, 2024	\$273,078
ember 30, 2025	\$283,843
ember 30, 2026	\$309,941
ember 30, 2027	\$308,412
ember 30, 2028	\$326,468
6 6 6 6 6 6	ember 30, 2023 ember 30, 2024 ember 30, 2025 ember 30, 2026 ember 30, 2027



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.

Actuarial Cost Method

Aggregate cost method. Under this actuarial cost method, a funding cost is developed for the plan as a level percentage of payroll. The level funding percentage is calculated as the excess of the total future benefit liability over accumulated assets and future employee contributions, with this excess spread over the expected future payroll for current active participants. The normal cost is equal to the level funding percentage multiplied by the expected payroll for the year immediately following the valuation date. The actuarial accrued liability is equal to the accumulated assets. Therefore, under the aggregate cost method, no unfunded accrued liability is developed.

Asset Method

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

3. Interest (or Discount) Rate

7.00% per annum

Salary Increases

Plan compensation is assumed to increase at the rate of 4.00% per annum, unless actual plan compensation is known for a prior plan year.

5. Decrements

Pre-retirement mortality:

None is assumed.

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:

None is assumed.

Termination:

None is assumed.

Retirement:

Retirement is assumed to occur at normal retirement age.

No decrements are assumed to occur until at least one year following the valuation date.



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

6. Form of Payment

Future retirees have been assumed to select the single life annuity.

7. Expenses

The total projected benefit liability has been loaded by 2.25% to account for anticipated administrative expenses. In addition, the interest rate set forth in item 3. above is assumed to be net of investment expenses and commissions.



Changes in Actuarial Methods and Assumptions

Table IV-B

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

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

- (1) Effective October 1, 2016, the mortality basis was changed from a 2015 projection of the RP-2000 Mortality Table for annuitants to a full generational projection using Scale BB of the RP-2000 Combined Mortality Table as required by State law.
- (2) Effective October 1, 2013, the interest (or discount) rate was decreased from 7.50% per annum to 7.00% per annum.
- (3) Effective October 1, 2013, the assumed increase in future salaries was changed from 5.00% per year to 4.00% per year.
- (4) Effective October 1, 2013, the mortality basis was changed from the RP-2000 Mortality Table, projected to 2007 by Scale AA, to the RP-2000 Mortality Table, projected to 2015 by Scale AA, both as published by the Internal Revenue Service (IRS) for purposes of Internal Revenue Code (IRC) section 430.
- (5) Effective October 1, 2011, no decrements are assumed to occur until at least one year following the valuation date.
- (6) Effective October 1, 2009, the administrative expense assumption was changed from a flat \$5,000 per year to a 2.25% loading of the total projected benefit liability.
- (7) Effective October 1, 2008, the assumed interest rate was decreased from 8.00% per annum to 7.50% per annum.



Summary of Plan Provisions

Table V-A

Benefit Formula

1.00% of Average Monthly Earnings multiplied by Credited Service, subject to a minimum benefit of \$50.00 per month for each year of service up to 20 years for Category 1 and 2 employees or \$100.00 per month for each year of service up to 10 years for Category 3 employees [§6.2, Ord. 1917, & §1, Ord. 2204]

2. Service Retirement

Normal retirement:

Age 59 with either at least 10 years of credited service for Category 1 employees or at least six years of credited service for Category 2 and 3 employees [§6.1, Ord. 1917]

3. 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 normal retirement age. [§7.2, Ord. 1917]

A non-vested participant who terminates employment receives his accumulated contributions. [§7.1, Ord. 1917]

4. Vesting

A Category 2 or 3 employee becomes 100% vested upon the attainment of six years of credited service. A Category 1 employee becomes 100% vested upon the attainment of 10 years of credited service. Alternatively, a Category 1 becomes partially vested upon the attainment of six years of credited service in accordance with the following table:

Years of Credited Service	Vested Percentage
Less than six	0%
At least six, but less than seven	60%
At least seven, but less than eight	70%
At least eight, but less than nine	80%
At least nine, but less than 10	90%
At least 10	100%

[§7.3, Ord. 1917]

5. Pre-Retirement Death Benefit

If a participant dies prior to retirement, the participant's beneficiary receives the participant's accumulated contributions. [§8, Ord. 1917]



Summary of Plan Provisions

Table V-A

(continued)

6. Form of Payment

Single life annuity (normal form of payment);

Actuarially reduced 10-year certain and life annuity (optional);

Actuarially reduced 50% joint and contingent annuity (optional);

Actuarially reduced 662/3% joint and contingent annuity (optional);

Actuarially reduced 75% joint and contingent annuity (optional);

Actuarially reduced 100% joint and contingent annuity (optional);

Any other actuarially equivalent form of payment that is approved by the Trustees (optional); or

Actuarially equivalent single lump sum distribution (automatic and only available if the single sum value of the participant's benefit is less than or equal to \$5,000 or the monthly annuity is less than \$100)

(Note: All forms of payment guarantee at least the return of the participant's accumulated contributions. Furthermore, a participant may change his joint annuitant up to two times after retirement subject to an actuarially equivalent adjustment.)

[§1, Ord. 2075]

Automatic Cost-of-Living Adjustment

Certain employees receive an automatic annual 2% cost-of-living adjustment beginning on the January 1 immediately following the completion of one year of retirement. Category 1 employees who have earned at least 15 years of credited service and Category 2 and 3 employees who have earned at least 10 years of credited service are entitled to the automatic cost-of-living adjustment. [§6.3, Ord. 1917]

8. Average Monthly Earnings

Average monthly earnings during the highest five years of compensation out of the 10 years immediately preceding the determination date. Earnings include basic annual salary. Earnings cannot exceed the maximum amount allowed under IRC section 401(a)(17). [§1.1, Ord. 1917]



Summary of Plan Provisions

Table V-A

(continued)

9. Credited Service

The elapsed time as an employee in a covered position from the participant's date of hire until his date of termination, retirement, or death. [§1.1 & §6.4, Ord. 1917]

10. Employee Contribution

Employees must contribute 4.50% of basic salary. Employee contributions are accumulated without interest. [§1.1 & §5.1(A), Ord. 1917]

11. City Contribution

The City is required to make periodic contributions at least on a quarterly basis as determined under Chapter 112, Florida Statutes. [§5.2, Ord. 1917]

12. Participant Requirement

All full-time employees of the City of Panama City automatically become participants in the plan on their date of hire as an employee in one of the following categories:

Category 1 Designated managers and directors and the City Engineer City Commission, Assistant City Manager, and City Clerk City Manager

Participation by the Assistant City Manager is optional.

[§2.1, Ord. 1917, & §1, Ord. 2204]

13. Actuarial Equivalence

Based on 7.00% interest per annum and a 50%/50% blend of the male and female mortality rates set forth in the RP-2000 Mortality Table for annuitants [§1.1, Ord. 1917]

14. Plan Effective Date

The plan was originally effective on October 1, 2003.



Summary of Plan Amendments

Table V-B

Since the completion of the previous valuation, Ordinance No. 2598 was adopted to be effective December 13, 2016. This ordinance substituted the purchasing agent position for the purchasing director position which was eliminated and had no actuarial impact on the plan.

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

- (1) Effective December 13, 2016, the plan was amended to substitute the purchasing agent position for the purchasing director position which was eliminated. (Ordinance No. 2598)
- (2) During the 2010/11 fiscal year, the pension plan's legal document was restated. The restatement made several modifications and clarifications to the current language of the plan in order to preserve compliance with the requirements of the Internal Revenue Code and the regulations promulgated thereunder. (Ordinance No. 2429)

