

CITY OF PALM BAY
POLICE AND FIREFIGHTERS' PENSION FUND
(General Employees)

ACTUARIAL VALUATION
AS OF OCTOBER 1, 2013

CONTRIBUTIONS APPLICABLE TO THE
FISCAL YEAR ENDED SEPTEMBER 30, 2015

May 8, 2014

Board of Trustees
City of Palm Bay Police & Fire Pension Fund
Conlan Professional Center
1501 Robert J. Conlan Blvd. NE Suite 260
Palm Bay, FL 32905-3567

Re: City of Palm Bay
Police and Firefighters' Pension Fund (General Employees)

Dear Board of Trustees:

We are pleased to present our report of the annual actuarial valuation of the City of Palm Bay Police Officers' and Firefighters' Pension Fund. The valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits and to develop the appropriate funding requirements for the applicable plan year.

The valuation has been conducted in accordance with generally accepted actuarial principles and practices, including the applicable Actuarial Standards of Practice as issued by the Actuarial Standards Board, and reflects laws and regulations issued to date pursuant to the provisions of Chapters 112, 175 and 185, Florida Statutes, as well as applicable federal laws and regulations. In our opinion, the assumptions used in this valuation, as adopted by the Board of Trustees, represent reasonable expectations of anticipated plan experience.

In conducting the valuation, we have relied on personnel, plan design, and asset information supplied by Ms. Adams and the actuarial assumptions and methods described in the Actuarial Assumptions section of this report. While we cannot verify the accuracy of all this information, the supplied information was reviewed for consistency and reasonableness. As a result of this review, we have no reason to doubt the substantial accuracy of the information and believe that it has produced appropriate results. This information, along with any adjustments or modifications, is summarized in various sections of this report.

The undersigned is familiar with the immediate and long-term aspects of pension valuations, and meets the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinions contained herein. All of the sections of this report are considered an integral part of the actuarial opinions.

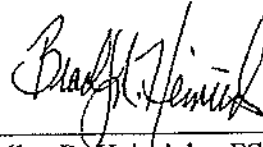
To our knowledge, no associate of Foster & Foster, Inc. working on valuations of the program has any direct financial interest or indirect material interest in the City of Palm Bay, nor does anyone at Foster & Foster, Inc. act as a member of the Board of Trustees of the City of Palm Bay Police Officers' and Firefighters' Pension Fund. Thus, there is no relationship existing that might affect our capacity to prepare and certify this actuarial report.

If there are any questions, concerns, or comments about any of the items contained in this report, please contact me at 239-433-5500.

Respectfully submitted,

Foster & Foster, Inc.

By:



Bradley R. Heinrichs, FSA, EA, MAAA
Enrolled Actuary #14-6901

BRH/lke

Enclosures

TABLE OF CONTENTS.

Section	Title	Page
I	Introduction	
	a. Summary of Report	5
	b. Changes Since Prior Valuation	6
	c. Requirements of Chapter 112, Part VII, Florida Statutes	7
II	Trust Fund	12
III	Member Statistics	
	a. Member Reconciliation	16
IV	Summary of Assumptions and Funding Methods	17

SUMMARY OF REPORT

The regular annual actuarial valuation of the City of Palm Bay Police Officers' and Firefighters' Pension Fund (General Employees), performed as of October 1, 2013, has been completed, and the results are presented in this Report. The contribution amounts set forth herein are applicable to the fiscal year ended September 30, 2015.

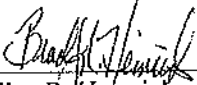
The contribution requirements developed in this valuation, compared with amounts developed in the October 1, 2012, actuarial valuation report, are as follows:


Valuation Date	10/1/2013	10/1/2012
Applicable Fiscal Year End	<u>9/30/2015</u>	<u>9/30/2014</u>
Total Required Contribution	\$0	\$0
% of Projected Annual Payroll	0.0%	0.0%

The balance of this Report presents additional details of the actuarial valuation and the general operation of the Fund. The undersigned would be pleased to meet with the Board of Trustees in order to discuss the Report and any pending questions concerning its contents.

Respectfully submitted,

FOSTER & FOSTER, INC.

By: 
Bradley R. Heinrich, FSA, EA, MAAA

By: 
Patrick T. Donlan, ASA, EA, MAAA

Plan Changes Since Prior Valuation

There have been no plan changes since the prior valuation.

Actuarial Assumption/Method Changes Since Prior Valuation

There have been no changes to the assumptions or methods since the prior valuation.

COMPARATIVE SUMMARY OF PRINCIPAL VALUATION RESULTS

	<u>10/1/2013</u>	<u>10/1/2012</u>
A. Participant Data		
Number Included		
Actives	0	0
Service Retirees	3	4
Beneficiaries	1	1
Terminated Vested	0	0
Disability Retirees	0	0
DROP Retirees	0	0
Total	<u>4</u>	<u>5</u>
Total Annual Payroll	\$0	\$0
Payroll Under Assumed Ret. Age	0	0
Annual Rate of Payments to:		
Service Retirees	5,303	8,306
Beneficiaries	2,532	2,532
Terminated Vested	0	0
Disability Retirees	0	0
DROP Retirees	0	0
B. Assets		
Actuarial Value	157,720	153,955
Market Value	168,798	160,172
C. Liabilities		
Present Value of Benefits		
Active Members		
Retirement Benefits	0	0
Disability Benefits	0	0
Death Benefits	0	0
Vested Benefits	0	0
Refund of Contributions	0	0
Service Retirees	19,101	28,976
Beneficiaries	16,861	17,599
Terminated Vested	0	0
Disability Retirees	0	0
DROP Retirees	0	0
Total	<u>35,962</u>	<u>46,575</u>

COMPARATIVE SUMMARY OF PRINCIPAL VALUATION RESULTS

	<u>10/1/2013</u>	<u>10/1/2012</u>
C. Liabilities - (Continued)		
Present Value of Future Salaries	0	0
Present Value of Future Member Contributions	0	0
Aggregate Normal Cost	0	0
Present Value of Future Normal Costs (Entry Age Normal)	N/A	N/A
Actuarial Accrued Liability (Entry Age Normal)	35,962	46,575
D. Actuarial Present Value of Accrued Benefits		
Vested Accrued Benefits		
Inactives	35,962	46,575
Actives	0	0
Member Contributions	0	0
	<hr/>	<hr/>
Total	35,962	46,575
Non-vested Accrued Benefits	<hr/> 0	<hr/> 0
Total Present Value Accrued Benefits	35,962	46,575
Increase (Decrease) in Present Value of Accrued Benefits Attributable to:		
Plan Amendments	0	
Assumption Changes	0	
New Accrued Benefits	(4,370)	
Benefits Paid	(9,586)	
Interest	3,343	
Other	0	
	<hr/>	
Total:	(10,613)	

COMPARATIVE SUMMARY OF PRINCIPAL VALUATION RESULTS

Valuation Date Applicable to Fiscal Year Ending	10/1/2013 <u>9/30/2015</u>	10/1/2012 <u>9/30/2014</u>
E. Pension Cost		
Normal Cost (with interest)	\$0	\$0
% of Projected Annual Payroll*	0.0	0.0
Administrative Expense (with interest)	0	0
% of Projected Annual Payroll*	0.0	0.0
Payment Required to Amortize Unfunded Actuarial Accrued Liability over 0 years (as of 10/1/13)	0	0
% of Projected Annual Payroll*	0.0	0.0
Total Required Contribution	0	0
% of Projected Annual Payroll*	0.0	0.0
Expected Member Contributions	0	0
% of Total Annual Payroll*	0.0	0.0
Required City and State Contributions	0	0
% of Total Annual Payroll*	0.0	0.0

COMPARATIVE SUMMARY OF PRINCIPAL VALUATION RESULTS

H. Schedule Illustrating the Amortization of the Total Unfunded Actuarial Accrued Liability as of:

<u>Year</u>	<u>Projected Unfunded Accrued Liability</u>
-------------	---


N/A - Aggregate Actuarial Cost Method

(i) 3 Year Comparison of Investment Return on Actuarial Value

		<u>Actual</u>	<u>Assumed</u>
Year Ended	9/30/2013	10.3%	8.0%
Year Ended	9/30/2012	8.1%	8.0%
Year Ended	9/30/2011	8.1%	8.5%

STATEMENT BY ENROLLED ACTUARY

This actuarial valuation was prepared and completed 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 Part VII, 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 increase in plan costs or required contribution rates have been taken into account in the valuation.


Patrick T. Donlan, EA, ASA, MAAA
Enrolled Actuary #14-6595

Please let us know when the report is approved by the Board and unless otherwise directed we will provide a copy of the report to the following office to comply with Chapter 112 Florida Statutes:

Mr. Keith Brinkman
Bureau of Local
Retirement Systems
Post Office Box 9000
Tallahassee, FL 32315-9000

BALANCE SHEET
September 30, 2013

<u>ASSETS</u>	MARKET VALUE
Cash and Cash Equivalents:	
Prepaid Expenses	28.63
Deposits	8.25
Cash	2,015.00
Total Cash and Equivalents	2,051.88
Receivable:	
Accrued Income	91.57
Total Receivable	91.57
Investments:	
Mutual Funds:	
Fixed Income	54,662.70
Equity	114,121.00
Total Investments	168,783.70
TOTAL ASSETS	170,927.15
 <u>LIABILITIES AND NET ASSETS</u>	
Liabilities:	
Payable:	
Unpaid Administrative Expenses	32.50
To Police Officers' and Firefighters' Trust Fund	2,096.71
Total Liabilities	2,129.21
Net Assets	168,797.94
TOTAL LIABILITIES AND NET ASSETS	170,927.15

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
September 30, 2013
Market Value Basis

REVENUES

Contributions:

Total Contributions		0.00
---------------------	--	------

Earnings from Investments

Interest & Dividends	12,174.51	
Unrealized Gain (Loss)	7,988.00	

Total Earnings and Investment Gains		20,162.51
-------------------------------------	--	-----------

EXPENDITURES

Expenses:

Administrative	1,950.22	
----------------	----------	--

Total Expenses		1,950.22
----------------	--	----------

Distributions to Members:

Benefit Payments	9,586.22	
------------------	----------	--

Total Distributions		9,586.22
---------------------	--	----------

Change in Net Assets for the Year		8,626.07
-----------------------------------	--	----------

Net Assets Beginning of the Year		160,171.87
----------------------------------	--	------------

Net Assets End of the Year		168,797.94
----------------------------	--	------------

'Investment Related expenses include investment advisory, custodial and performance monitoring fees.

ACTUARIAL ASSET VALUATION
September 30, 2013

Actuarial Assets for funding purposes are developed by recognizing the total actuarial investment gain or loss for each Plan Year over a four year period. In the first year, 25% of the gain or loss is recognized. In the second year 50%, in the third year 75%, and in the fourth year 100% of the gain or loss is recognized. The actuarial investment gain or loss is defined as the actual return on investments minus the actuarial assumed investment return. Actuarial Assets shall not be less than 80% nor greater than 120% of Market Value of Assets.

Plan Year Ending	Gain/(Loss)	<u>Gains/(Losses) Not Yet Recognized</u>			
		Amounts Not Yet Recognized by Valuation Year			
		2013	2014	2015	2016
9/30/2010	0	0	0	0	0
9/30/2011	(12,910)	(3,228)	0	0	0
9/30/2012	16,896	8,448	4,224	0	0
9/30/2013	7,810	5,858	3,905	1,953	0
Total		11,078	8,129	1,953	0

Development of Investment Gain/(Loss)

Market Value of Assets, 09/30/2012	160,172
Contributions Less Benefit Payments & Admin Expenses	(11,536)
Expected Investment Earnings*	12,352
Actual Net Investment Earnings	20,163
2013 Actuarial Investment Gain/(Loss)	7,810

*Expected Investment Earnings = $0.08 * [160,172 + 0.5 * (11,536)]$

Development of Actuarial Value of Assets

(1) Market Value of Assets, 09/30/2013	168,798
(2) Gains/(Losses) Not Yet Recognized	11,078
(3) Actuarial Value of Assets, 09/30/2013, (1) - (2)	157,720
(A) 09/30/2012 Actuarial Assets:	153,955
(I) Net Investment Income:	
1. Interest and Dividends	12,175
2. Realized Gains (Losses)	0
3. Change in Actuarial Value	3,127
4. Investment Expenses	0
Total	15,302
(B) 09/30/2013 Actuarial Assets:	157,720
Actuarial Assets Rate of Return = $2I/(A+B-I)$:	10.33%
Market Value of Assets Rate of Return:	13.06%
10/01/2013 Limited Actuarial Assets:	157,720

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
September 30, 2013
Actuarial Asset Basis

REVENUES

Contributions:

Total Contributions		0.00
Earnings from Investments		
Interest & Dividends	12,174.51	
Change in Actuarial Value	3,127.00	
Total Earnings and Investment Gains		15,301.51

EXPENDITURES

Expenses:		
Administrative	1,950.22	
Total Expenses		1,950.22
Distributions to Members:		
Benefit Payments	9,586.22	
Total Distributions		9,586.22
Change in Net Assets for the Year		3,765.07
Net Assets Beginning of the Year		153,954.87
Net Assets End of the Year ²		157,719.94

¹Investment Related expenses include investment advisory, custodial and performance monitoring fees.

²Net Assets may be limited for actuarial consideration.

VALUATION PARTICIPANT RECONCILIATION

1. Active lives

a. Number in prior valuation 10/1/12	0
b. Terminations	
i. Vested (partial or full) with deferred benefits	0
ii. Non-vested or full lump sum distribution received	0
c. Deaths	
i. Beneficiary receiving benefits	0
ii. No future benefits payable	0
d. Disabled	0
e. Retired	0
f. DROP	0
g. Continuing participants	0
h. New entrants	0
i. Total active life participants in valuation	0

2. Non-Active lives (including beneficiaries receiving benefits)

	Service Retirees, Vested Receiving <u>Benefits</u>	Receiving Death <u>Benefits</u>	Receiving Disability <u>Benefits</u>	<u>Vested Deferred</u>	<u>DROP</u>	<u>Total</u>
a. Number prior valuation	4	1	0	0	0	5
b. In	0	0	0	0	0	0
c. Out	1	0	0	0	0	1
d. Number current valuation	3	1	0	0	0	4

SUMMARY OF ACTUARIAL ASSUMPTIONS AND FUNDING METHODS

This actuarial valuation report has been prepared in accordance with generally accepted actuarial principles and practices. The major assumptions and methods used in this valuation are as follows:

Economic Assumptions

Interest: 8.0% per year, net of investment related expenses.

Administrative Expenses: None.

Demographic Assumptions

Mortality:

- Service Retirement : RP2000 (Combined Healthy)
- Disability Retirement : RP2000 (Combined Healthy)
- Spouse: RP2000 (Combined Healthy)

ACTUARIAL METHODS

Funding Method: Aggregate Actuarial Cost Method.

Actuarial Value of Assets:

The market value of assets is adjusted to recognize, over a four-year period, investment earnings greater than (or less than) the assumed investment return. The Actuarial Value of Assets shall not be more than 120% nor less than 80% of the market value of assets. Details are shown in the Asset Information Section of the report.