ACTUARIAL VALUATION OF TOWN OF DAVIE POLICE PENSION PLAN AS OF OCTOBER 1, 2013

February, 2014

Determination of Contribution for the Plan Year ending September 30, 2014 Contribution to be Paid in Fiscal Year October 1, 2013 through September 30, 2014

> DuLaney and Company, Inc. Actuarial Services

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February 10, 2014

Board of Trustees Town of Davie Police Pension Plan c/o Mr. Dave Williams Precision Pension Administration, Inc. 13790 NW 4th Street, Suite 105 Sunrise, FL 33325

Dear Board Members:

We are pleased to present the October 1, 2013 Actuarial Valuation for the Town of Davie Police Pension Plan. The purpose of this report is to indicate appropriate contribution levels and to satisfy State requirements. The report is prepared for and at the request of the Board of Trustees.

This report consists of this commentary, detail Tables I through XVI and State Required Exhibit - Table XVII. The Tables contain basic Retirement Plan cost figures plus significant detail on the benefits, liabilities and experience of your Plan.

Costs for Fiscal Year Beginning October 1, 2013

This Actuarial Valuation develops the required minimum Retirement Plan payment for the fiscal year beginning October 1, 2013 and ending September 30, 2014 under the Florida Protection of Public Employee Retirement Benefits Act and Chapter 185. The minimum payment consists of payment of annual normal cost plus amortization of the unfunded actuarial accrued liability over various periods, and interest, as prescribed by law. We anticipated that member pension contributions will be \$974,186 (7.0% of covered payroll).

The required funding amount for the plan/fiscal year ending September 30, 2014, to be met by the Town and State contributions under Chapter 185, is \$6,430,027 or 46.2% of the covered payroll. Please note that Chapter 185 states that employer contributions must be made at least quarterly, and these quarterly amounts must be at least \$1,435,741.

The anticipated State (Chapter 185) contribution is \$687,063 (actual amount received for the 2012/2013 plan year). The resulting Town required contribution is \$5,742,964, or 41.3% of the covered payroll. Since the current Adjusted Annual Base Chapter 185 Contribution Amount is \$705,416, any actual Chapter 185 contribution amount (up to \$705,416) above the anticipated \$687,063 can be used by the Town to offset its funding requirement. If the actual Chapter 185 contribution is below the anticipated \$687,063, the difference must be made up by additional Town contribution.

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<u>Changes in Plan Provisions, Actuarial Methods or Assumptions Recognized in this Valuation</u>

The plan provisions remained the same as those recognized in our October 1, 2012 valuation. The plan provisions are outlined in Table XI.

In this valuation, there were no changes in the actuarial assumptions and methods utilized in this valuation from the prior valuation. Table XII contains an outline of the assumptions and methods used.

Comparison of October 1, 2012 and October 1, 2013 Valuation Results

Table II provides information of a comparative nature. The left column contains the figures calculated as shown in the October 1, 2012 actuarial valuation results. The right contains the October 1, 2013 valuation results.

A comparison of the columns shows the plan experience for the year. Covered payroll (including overtime pay) increased by approximately 6.9% while the number of active participants also increased by 5.3%, including twelve (12) Tier Two Members. Unfunded actuarial accrued liability decreased from \$28,267,161 to \$25,742,439, primarily due to the actuarial gain of \$1,818,136 (shown in Table VIII), mainly from asset gains. The Town cost decreased from 43.8% to 41.3% of the covered pension payroll, or \$5,742,964, assuming a Chapter 185 Contribution of \$687,063.

GASB Disclosures and Division of Retirement Required Disclosure

In November, 1994, the Government Account Standards Board (GASB) adopted Statements No. 25 and No. 27, changing the way in which government retirement systems must report financial information. Relevant information under GASB 25 and GASB 27 is included in Table X.

In addition, as required by Florida SB 1128, which amended Section 112.63, Florida Statutes (Actuarial reports and statements of actuarial impact; review), we have added the disclosure of the present value of accrued vested, non-vested and total benefits at the current assumed rate of return applied by the Florida Retirement System. The disclosure, currently at the assumed rate of 7.75% per year, is shown as Item D. of Table X.

Plan Experience

Table XVI provides a summary of certain plan experience during the plan year. The actuarial value of assets return was 12.6% for the 2012/2013 plan year, which was above the assumed 7.9%. The market value rate of return was 10.6%. Asset return was a significant source of actuarial gain. Employee turnover was 38% lower than the expected turnover during the last plan year, and the most recent three (3) and five (5) year averages were 35% and 45% of the

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expected amounts, respectively. Average salary increase was 5.4%, as compared to the assumed of 6.25%. Employee turnover contributed to the actuarial loss and salary increase contributed to the actuarial gain during the plan year.

Participant Census and Financial Data

Census data for the fiscal year October 1, 2012 through September 30, 2013 was provided by the Town. Supplemental information was also received on retirees and terminations from the plan custodian and the plan administrator. The data was reviewed for consistency and is believed to be reliable.

Information on Plan assets was received from the Plan's auditors. We did not audit this information, however, we believe it to be reliable.

DuLaney and Company

Donald A. DuLaney, Jr. A.S.A. Senior Consulting Actuary

Panrong Xiao, M.A.A.A. Enrolled Actuary

DAD/PX Attachments

Table I

TOWN OF DAVIE POLICE PENSION PLAN

Summary of Retirement Plan Costs as of October 1, 2013

		<u>-</u>	Cost Data	% of Payroll
A.		Participant Data Summary		
	1.	Active employees	160	N/A
	2.	Terminated vested	1	N/A
	3.	Receiving benefits	90	N/A
	4.	DROP participants	10	N/A
	5.	Annual payroll of active employees	\$ 13,916,944	100.0%
B.		Total Normal Costs		
	1.	Age retirement benefits	\$ 3,630,197	26.1%
	2.	Termination benefits	216,979	1.6%
	3.	Death benefits	58,948	0.4%
	4.	Disability benefits	65,679	0.5%
	5.	Estimated expenses	 697,282	5.0%
	6.	Total annual normal costs	\$ 4,669,085	33.5%
C.		Total Actuarial Accrued Liability		
	1.	Age retirement benefits active employees	\$ 59,385,953	426.7%
	2.	Termination benefits active employees	1,677,594	12.1%
	3.	Death benefits active employees	249,024	1.8%
	4.	Disability benefits active employees	372,675	2.7%
	5.	Retired or terminated vested participants	47,789,683	343.4%
	6.	DROP participants benefits	9,366,189	67.3%
	7.	Terminated vested participants entitled to future benefits	93,617	0.7%
	8.	Deceased participants whose beneficiaries are receiving benefits	2,568,934	18.5%
	9.	Disabled participants receiving benefits	 2,219,671	15.9%
	10.	Total actuarial accrued liability	\$ 123,723,340	889.0%
D.		Actuarial Value of Assets (Table VI)	\$ 97,980,901	704.0%
E.		Unfunded Actuarial Accrued Liability (C. – D.)	\$ 25,742,439	185.0%

Table I (continued two)

F.		Minimum Funding Requirements		
	1.	Total normal cost	\$ 4,669,085	33.5%
	2.	Amortization of unfunded actuarial accrued liability	2,386,360	17.1%
	3.	Interest adjustment	 348,768	2.5%
	4.	Total payment	\$ 7,404,213	53.1%
G.		Contribution Sources		
	1.	a) Town	\$ 5,742,964	41.3%
		b) State	 687,063	4.9%
		c) Total Town and State	\$ 6,430,027	46.2%
	2.	Employees	\$ 974,186	7.0%
H.		Actuarial Present Value of Vested Accrued Benefits		
	1.	Retired, terminated vested, beneficiaries and		
	1.	disabled receiving benefits	\$ 52,578,288	377.8%
	2.	DROP participants	9,366,189	67.3%
	3.	Terminated vested participants entitled to future benefits	93,617	0.7%
	4.	Active participants entitled to future benefits	37,498,789	269.4%
	5.	Total actuarial present value of vested accrued benefits	\$ 99,536,883	715.2%
I.		Market Value of Assets (Table V)	\$ 100,837,063	724.6%
J.		Unfunded Actuarial Present Value of		
		Vested Accrued Benefits (H I., not less than \$0)	\$ (1,300,180)	(9.3%)
K.		Vested Benefit Security Ratio (I. ÷ H.)	101.3%	N/A

Table II TOWN OF DAVIE POLICE PENSION PLAN Comparison of Cost Data of October 1, 2012 and October 1, 2013 Actuarial Valuations

	October 1	, 2012	October 1, 2013			
	Cost Data	% of Annual Compensation	Cost Data	% of Annual Compensation		
A. Participants						
 Active employees Tier One + Tier Two = Total Terminated vested 	139 + 13 = 152	N/A N/A	137 + 23 = 160	N/A N/A		
3. Receiving benefits4. DROP participants	87 11	N/A N/A	90 10	N/A N/A		
5. Annual payroll of active	11	IV/A	10	IV/A		
Employees	\$ 13,014,220	100.0%	\$ 13,916,944	100.0%		
B. Total Normal Costs	\$ 4,367,229	33.6%	\$ 4,669,085	33.5%		
C. Total Actuarial Accrued Liability	\$ 114,812,797	882.2%	\$ 123,723,340	889.0%		
D. Actuarial Value of Assets	\$ 86,545,636	665.0%	\$ 97,980,091	704.0%		
E. Unfunded Actuarial Accrued Liability	\$ 28,267,161	217.2%	\$ 25,742,439	185.0%		
F. Town Minimum Funding Requirement	\$ 5,703,048	43.8%	\$ 5,742,964	41.3%		
G. Unfunded Actuarial Present Value of Vested Accrued Benefits ¹	\$ 2,452,987	18.8%	\$ (1,300,180)	(9.3%)		
H. Vested Benefit Security Ratio ¹	97.3%	N/A	101.3%	N/A		

¹ Calculated based on market value of assets.

Table III

TOWN OF DAVIE POLICE PENSION PLAN

<u>Characteristics of Participants in</u> <u>Actuarial Valuation as of October 1, 2013</u>

A. Characteristic of Active Participants

1.	Active participants as of beginning of prior year	152
2.	New entrants during prior year	12
3.	Exits during prior year	(4)
4.	Active participants as of beginning of year	160
5.	Active participants fully vested	84
6.	Active participants partially vested	0
7.	Active participants non-vested	76
8.	Annual payroll of active participants	\$ 13,916,944
9.	Average pay	\$ 86,981
10.	Average attained age	38.33 years
11.	Percent female	13.75%

B. Characteristics of Inactive Participants

1.	Inactives as of beginning of prior year	99
2.	Newly inactive during prior year	2
3.	Exits during prior year	 0
4.	Inactives as of beginning of year	101
5.	Age retirees	74
6.	Annual benefit for age retirees	\$ 3,899,811
7.	DROP participants	10
8.	Annual benefit for DROP participants	\$ 689,613
9.	Beneficiaries receiving benefits	10
10.	Annual benefits for beneficiaries receiving benefits	\$ 217,401
11.	Beneficiaries due deferred benefits	0
12.	Annual benefits for beneficiaries due deferred benefits	\$ 0
13.	Disabled participants receiving benefits	6
14.	Annual benefits for disabled participants	\$ 222,128
15.	Terminated vested due deferred benefits	1
16.	Annual benefits for terminated vested participants	\$ 28,155

Table IV

TOWN OF DAVIE POLICE PENSION PLAN

Statement of Assets as of October 1, 2013

		_	Market Value
A.	Assets		
	1. Cash and Cash Equivalents	\$	6,114,270
	2. Bonds		14,194,116
	3. U. S. Government Securities		18,363,100
	4. Common Stocks		43,040,720
	5. Accrued Interest & Dividends		311,202
	6. Domestic Equity Fund		8,462,987
	7. International Equity Fund		11,159,816
	8. Real Estate Fund		8,225,458
	9. Receivable Contributions		266,659
	10. Securities Sold Receivable		96,987
	11. Total Assets	\$	110,235,315
B.	<u>Liabilities</u>		
	1. Prepaid Town Contributions		1,663,013
	2. Securities Purchased Payable		2,057,827
	3. DROP Benefits Payable		5,554,331
	4. Unused Chapter 185 Funds		0
	5. Accounts Payable		123,081
	6. Total Liabilities	\$	9,398,252
	C. Grand Total (Item A.11. – Item B.6.)	\$	100,837,063

¹ As reported by Plan's Auditors.

Table V

TOWN OF DAVIE POLICE PENSION PLAN

Reconciliation of Plan Assets¹

A.	Ma	\$	88,219,142			
B.	Red	ceipts During Period				
	1.	Contributions				
		a. Town	\$	5,750,247		
		b. Employee		1,008,385		
		c. State (not limited by 99-1)		687,063		
		d. Total			\$	7,445,695
	2.	Investment income				
		a. Interest, dividends and				
		Miscellaneous income	\$	2,504,636		
		b. Investment expenses		(525,820)		
		c. Net			\$	1,978,816
	3.	Net gains (losses)				
		a. Realized gains (losses)	\$	4,016,387		
		b. Unrealized gains (losses)	_	4,208,467		
		c. Total gains (losses)				8,224,854
	4.	Total receipts during period $(1.d. + 2.c. + 3.c.)$			\$	17,649,365
C.	Die	sbursements During Period				
C.	1.	Pension payments			\$	4,196,144
	2.	DROP payments			Ψ	654,381
	3.	Contribution refunds				9,457
	<i>3</i> . 4.	Administrative expenses				171,462
	5.	Increase / (decrease) in COLA reserve				171,402
	<i>5</i> .	Increase / (decrease) in State contribution reserve	a			0
	7.	Total disbursements during period	J		\$	5,031,444
	7.	Total disbursements during period			φ	3,031,444
D.	Ma	rket Value of Assets as of October 1, 2013 (A. + I	3.4 (<u>C.7.)</u>	\$	100,837,063
E.	Re	conciliation of DROP Accounts Balance				
	1.	DROP accounts balance as of October 1, 2012			\$	4,663,060
	2.	Benefit payments into DROP accounts during ye	ar			654,381
	3.	Unused Leave Pay Transfer during year				91,300
	4.	Disbursements from DROP accounts during year				(380,495)
	5.	Expenses deducted from DROP accounts				(3,280)
	6.	Investment gains/(losses) during year*			_	529,365
	7.	DROP accounts balance as of September 30, 201	3		\$	5,554,331
		1			•	, ,

¹ As reported by Plan's Auditors.

Table VI

TOWN OF DAVIE POLICE PENSION PLAN

Development of Actuarial Value of Assets

	10/1/2012 – 9/30/2013		_	10/1/2011 – 9/30/2012		/1/20010 — //30/2011
A. Market value of assets as of beginning of year	\$	88,219,142	\$	72,353,153	\$	69,209,832
B. Contributions		6,049,341		7,345,605		7,438,796
C. Benefit payments and expenses D. Expected investment income		5,557,264		5,509,339		5,047,603
(A. x .079 + (BC.) x .0395) E. Expected assets at end of year		6,988,749		5,788,432		5,562,029
(A. + B C. + D.)		95,699,968		79,977,851		77,163,054
F. Actual market value at end of year		100,837,063		88,219,142		72,353,153
G. Excess/(shortfall) of actual over expected assets (F. – E.)						
1. From previous plan year		5,137,095		8,241,291		(4,809,901)
2. From two plan years ago		8,241,291		(4,809,901)		1,589,128
3. From three plan years ago		(4,809,901)		1,589,128		(2,476,545)
H. Deferred recognized amounts of excess/(shortfall)						
1. 33-1/3% from previous plan year		1,712,365		2,747,097		(1,603,300)
2. 33-1/3% from two plan years ago		2,747,097		(1,603,300)		529,709
3. 33-1/3% from three plan years ago		(1,603,300)		529,709		(825,515)
4. Total		2,856,162		1,673,506		(1,899,106)
I. Preliminary actuarial value of assets at end						
of year (F. – H.4.)	\$	97,980,901	\$	86,545,636	\$	74,252,259
J. 80% of end of year market value of assets		80,669,650		70,575,314		57,882,522
K. 120% of end of year market value of assets		121,004,476		105,862,970		86,823,784
L. Actuarial value of assets						
(I., but not less than J. and not more than K.)	\$	97,980,901	\$	86,545,636	\$	74,252,259

Table VII

TOWN OF DAVIE POLICE PENSION PLAN

History of Chapter 185 Contribution Usage

Under the provisions of Florida Statutes Chapter 185, as amended by Chapter 99-1, increments in Chapter 185 contributions over the amount for 1997 must first be used to fund the cost of meeting minimum benefit requirements. After the minimum requirements are met, any additional Chapter 185 contributions received must be used to provide extra benefits. The following is an accounting of the contributions received and the amounts used for compliance since the 1997 plan year.

- A. 1997 Chapter 185 contributions received (Base Amount) \$ 280,098
- B. Benefit improvements purchased 09/30/2011 to meet Chapter 185 minimum benefits:

 Compensation definition to include up to 300 (currently 150) hours per year of overtime pay;
 minimum service connected disability benefit to be greater of accrued benefit or 42% of final pay;
 minimum non-service connected disability benefit to be greater of accrued benefit or 25% of final
 pay, payable as 10 year certain and life annuity; and early retirement benefit reduction to be no more
 than 3.0% per year.

Cost: One time use of Cumulative Reserve balance of \$182,273 + annual excess of \$98,030.

C. History of Chapter 185 contribution usage

	Adjusted Base Amount						Actual Amount Received					
During Plan Year		apter 185		Cost for New Senefits		Total hapter 185 ontribution Used		napter 185	Ac	xcess of tual over Base Amount	A Ba	Cumulative Excess of actual over ase Amount th Interest*
1997/1998	\$	280,098	\$	0	\$	280,098	\$	280,098	\$	0	\$	0
1998/1999	\$	280,098	\$	0	\$	280,098	\$	287,371	\$	7,273	\$	7,273
1999/2000	\$	280,098	\$	0	\$	280,098	\$	281,642	\$	1,544	\$	8,817
2000/2001	\$	280,098	\$	5,477	\$	285,575	\$	317,953	\$	32,378	\$	41,195
2001/2002	\$	285,575	\$	0	\$	285,575	\$	394,388	\$	108,813	\$	280,098
2002/2003	\$	285,575	\$	0	\$	285,575	\$	417,529	\$	131,954	\$	293,963
2003/2004	\$	285,575	\$	261,943	\$	547,518 ¹	\$	547,518	\$	0	\$	$55,750^2$
2004/2005	\$	547,518	\$	0	\$	$547,518^3$	\$	572,173	\$	24,655	\$	$40,332^4$
2005/2006	\$	547,518	\$	0	\$	547,518	\$	607,386	\$	59,868	\$	103,427
2006/2007	\$	547,518	\$	59,868	\$	$607,386^5$	\$	621,375	\$	0	\$	17,974
2007/2008	\$	607,386	\$	0	\$	607,386	\$	644,602	\$	37,216	\$	56,628
2008/2009	\$	607,386	\$	0	\$	607,386	\$	687,558	\$	80,172	\$	141,330
2009/2010	\$	607,386	\$	0	\$	607,386	\$	637,164	\$	29,778	\$	182,273
2010/2011	\$	607,386	\$	98,030	\$	$705,416^6$	\$	611,838	\$	0	\$	0
2011/2012	\$	705,416	\$	0	\$	705,416	\$	644,262	\$	0	\$	0
2012/2013	\$	705,416	\$	0	\$	705,416	\$	687,063	\$	0	\$	0

^{*} Interest accumulation begins with the 2002/2003 plan year, and applies to the cumulative excess of actual over base amount from prior plan year. Interest at 8.0% per year through 9/30/2009, and at 7.9% per year thereafter.

A one-time use in the amount of \$261,730 from the Cumulative Excess also occurred.

The Cumulative Excess balance would have been \$579,423 without the adoption of the inclusion of overtime pay as pension earnings.

A one-time use in the amount of \$44,533 from the Cumulative Excess also occurred.

The Cumulative Excess balance would have been \$912,375 without the adoption of the inclusion of overtime pay as pension earnings.

⁵ A one-time use in the amount of \$99,737 from the Cumulative Excess also occurred.

A one-time use in the amount of \$182,273 from the Cumulative Excess also occurred.

Table VIII

TOWN OF DAVIE POLICE PENSION PLAN

Actuarial Gains (Losses) for Plan Year Ended September 30, 2013

A. Derivation of Actuarial Gain (Loss)

	1. 2.	City and State normal cost previous valuation Unfunded actuarial accrued liability previous valuation	\$ 3,456,234 28,267,161
	3.	City and State contributions previous year (limited by 99-1)	6,437,310
	4.	Interest on:	
		(a) City normal costs \$ 273,042	
		(b) Unfunded actuarial	
		accrued liability 2,233,106	
		(c) City and State	
		contributions <u>231,658</u>	
		(d) Net total: $(a) + (b) - (c)$	\$ 2,274,490
	5.	Increase (decrease) in unfunded actuarial accrued liability	
		from plan amendment	0
	6.	Increase (decrease) in unfunded actuarial accrued liability	
		from assumptions changes	0
	7.	Expected unfunded actuarial accrued liability	
		current year: $1. + 2 3. + 4. + 5. + 6.$	27,560,575
	8.	Actual unfunded actuarial accrued liability current year	25,742,439
	9.	Actuarial gain (loss): 7 8.	\$ 1,818,136
B.	<u>A</u> p	oproximate Portion of Gain (Loss) Due to Investments	
	1.	Actuarial value of assets previous year	\$ 86,545,636
	2.	Contributions during year (limited by 99-1)	6,437,310
	3.	Disbursements during year (expenses & benefits)	5,557,264
	4.	Expected appreciation for period	6,871,867
	5.	Expected actuarial value of assets current year	_
		1. + 2 3. + 4.	94,297,549
	6.		97,980,901
	7.	Approximate gain (loss): 6 5.	\$ 3,683,352
C.	<u>A</u> p	proximation Portion of Gain (Loss) Due to Liabilities: A B.	(1,865,216)

Table IX

<u>TOWN OF DAVIE POLICE PENSION PLAN</u>

Amortization of Unfunded Liability

<u>Date</u>	<u>Total</u>	Unfunded Liability	-	ortization nyment
10/1/2013	\$	25,742,439	\$	2,386,360
10/1/2014	\$	25,201,209	\$	2,386,360
10/1/2015	\$	24,617,222	\$	2,386,360
10/1/2016	\$	23,987,100	\$	2,386,360
10/1/2043	\$	0	\$	0

Table X

TOWN OF DAVIE POLICE PENSION PLAN

Accounting Disclosure Exhibit

I.	Nur	mber of Plan Participants		10/1/2012	 10/1/2013
	1.	Retirees, disabled and beneficiaries receiving benefits		87	90
	2.	Terminated plan participants entitled to but not yet receiving benefits		1	1
	3.	DROP participants		11	10
	4.	Active plan participants		152	 160
	5.	Total		251	261
II.	Acc	numulated Plan Benefits as of October 1, 2013			
	A.	Statement of Accumulated Plan Benefits			
	1.	Actuarial present value of accumulated vested	l plan	benefits	
		a. Participants currently receiving benefits	\$	49,794,659	\$ 52,578,288
		b. Beneficiaries due deferred benefits		0	0
		c. DROP participants		9,845,490	9,366,189
		d. Others		31,031,980	 37,592,406
		e. Total	\$	90,672,129	\$ 99,536,883
	2.	Actuarial present value of accumulated non-vested plan benefits		7,012,172	7,304,355
	3.	Total actuarial present value of accumulated plan benefits	\$	97,684,301	\$ 106,841,238

Table X (continued two)

B.	Statement of Change in Accumulated Plan Benefits		
	_		10/1/2013
	1. Actuarial present value of accumulated		
	plan benefits as of October 1, 2012	\$	97,684,301
	2. Increase (decrease) during year attributable to:		, ,
	a. Plan amendment		0
	b. Actuarial assumptions and method changes		0
	c. Benefits paid and contribution refunds		(4,205,601)
	d. DROP benefits credited		(654,381)
	e. Other, including benefits accumulated		, , ,
	and increase for interest due to decrease		
	in the discount period		14,016,919
	f. Net increase	\$	9,156,937
	3. Actuarial present value of accumulated plan	Ψ	J,130,J37
	benefits as of October 1, 2013	\$	106,841,238
	benefits as of October 1, 2013	Ψ	100,041,230
C.	Significant Matters Affecting Calculations		
	1. Assumed rate of return used in determining		
	actuarial present values		7.90%
	2. Plan amendments		None
	3. Change in actuarial assumptions		None
D.	Required Disclosure of Accumulated Plan Benefits		
	at Assumed Rate of Return Applied by the		
	Florida Retirement System, Currently 7.75%		
		<u></u>	10/1/2013
	1. Actuarial present value of accumulated vested		
	plan benefits		
	a. Participants currently receiving benefits	\$	53,308,561
	b. DROP participants		9,514,192
	c. Others		38,471,791
	d. Total		101,294,544
	2. Actuarial present value of accumulated non-vested		
	plan benefits		7,433,433
	3. Total actuarial present value of accumulated		
	plan benefits	\$	108,727,977
	•		

Table X (continued three)

III. Schedule of Funding Progress (As required by GASB #25)

(4) Unfunded (7) (3) (2) **Actuarial Accrued** Actuarial Accrued (5) (6) UAAL as % of (1) Actuarial Value of Liability (AAL) – Liability (UAAL) **Funded Ratio Annual Covered Payroll** Valuation Date FIL / EAN AAL Payroll Assets (AVA) (3) - (2)(2)/(3)(4)/(6)October 1, 1992 \$ 8,697 10,008 \$ 1,311 86.9% \$ 31.6% 4,146 October 1, 1993 9,931 11,163 1,232 89.0% 4,467 27.6% 10,866 14,146 3,280 76.8% 4,195 78.2% October 1, 1994 13,918 October 1, 1995 17,163 3,245 81.1% 5,307 61.1% 20.093 3,038 October 1, 1996 17,055 5,637 84.9% 53.9% October 1, 1997 23,994 2,404 90.0% 5,339 21.590 45.0% 24,945 27,303 2,358 91.4% October 1, 1998 6.360 37.1% 29,881 28,994 6.070 (887)(14.6%)October 1, 1999 103.1% October 1, 2000 32,886 35,159 2,273 93.5% 6,309 36.0% October 1, 2001 32,325 \$ 34,530 2,205 93.6% 7,254 30.4% October 1, 2002 2,256 7,975 31,302 33,558 93.3% 28.3% (all figures above are based on Frozen Initial Liability – all figures below are based on Entry Age Normal Actuarial Accrued Liability) October 1, 2002 31,302 38,067 6,765 82.2% 7.975 84.8% 34.845 44,993 10.148 77.4% \$ 8,994 October 1, 2003 \$ \$ 112.8% October 1, 2004 39,267 \$ 10,475 78.9% 9.105 49,742 115.0% 45,283 58,779 13,496 77.0% 10,976 123.0% October 1, 2005 \$ 50.714 69,881 19,167 72.6% 11.999 159.7% October 1, 2006 October 1, 2007 77,471 16,346 78.9% 10,591 61,125 154.3% October 1, 2008 59,817 85,831 26,014 11,177 69.7% 232.7% October 1, 2009 64,425 95,058 \$ 30,633 67.8% 12,106 253.0% October 1, 2010 73,793 100,684 26,891 73.2% 11,618 231.5% October 1, 2011 74,252 \$ 109,037 34,785 13,006 68.1% 267.5% 86,546 28,267 October 1, 2012 \$ 114,813 \$ 13,014 75.4% 217.2% October 1, 2013 97,981 \$ 123,723 25,742 79.2% 13,917 185.0%

Table X (continued four)

IV. GASB No. 27 Disclosures

Note: Dollar amounts in	(a)	(b)		(c)	(d)		(e)	(f)		(g)	(h))
thousands												
	Annual							Annual				
	Required	Actual				Adju	stment to	Pension Cost	Cha	ange in		
	Contribution	Employer	Int	erest on	Amortization		ARC	(APC)	1	NPO	NPO =	
Period	(ARC)	Contributions	NPC) Balance	Factor	(l	n) / (d)	(a) + (c) - (e)	(f))-(b)	NPO +	- (g)
10/01/2000 - 09/30/2001*											\$	0
10/01/2001 - 09/30/2002	\$ 1,952,361	\$ 1,952,361	\$	0	12.1584	\$	0	\$1,952,361	\$	0	\$	0
10/01/2002 - 09/30/2003	\$ 2,365,267	\$ 2,375,784	\$	0	12.1584	\$	0	\$ 2,365,267	\$ ((10,517)	\$ (10,	517)
10/01/2003 - 09/30/2004	\$ 3,040,575	\$ 3,049,911	\$	(841)	12.1584	\$	(865)	\$3,040,599	\$	(9,312)	\$ (19,	829)
10/01/2004 - 09/30/2005	\$ 3,090,663	\$ 3,090,663	\$	(1,586)	12.1584	\$	(1,631)	\$3,090,708	\$	45	\$ (19,	784)
10/01/2005 - 09/30/2006	\$ 3,827,510	\$ 3,827,510	\$	(1,583)	12.1584	\$	(1,627)	\$3,827,554	\$	44	\$ (19,	740)
10/01/2006 - 09/30/2007	\$ 4,542,018	\$ 4,542,018	\$	(1,579)	12.1584	\$	(1,624)	\$4,542,063	\$	45	\$ (19,	695)
10/01/2007 - 09/30/2008	\$ 4,644,822	\$ 4,644,822	\$	(1,576)	12.1584	\$	(1,620)	\$4,644,866	\$	44	\$ (19,	651)
10/01/2008 - 09/30/2009	\$ 5,594,422	\$ 5,594,422	\$	(1,572)	12.1584	\$	(1,616)	\$5,594,466	\$	44	\$ (19,	607)
10/01/2009 - 09/30/2010	\$ 6,109,706	\$ 6,109,706	\$	(1,549)	12.2627	\$	(1,599)	\$6,109,756	\$	50	\$ (19,	557)
10/01/2010 - 09/30/2011	\$ 6,183,134	\$ 6,183,134	\$	(1,545)	12.2627	\$	(1,595)	\$6,183,184	\$	50	\$ (19,	507)
10/01/2011 - 09/30/2012	\$ 6,847,346	\$ 6,847,346	\$	(1,541)	12.2627	\$	(1,591)	\$6,847,396	\$	50	\$ (19,	457)
10/01/2012 - 09/30/2013	\$ 6,347,310	\$ 6,437,310	\$	(1,537)	12.2627	\$	(1,587)	\$6,347,360	\$ ((89,950)	\$ (109,	407)
10/01/2013 - 09/30/2014	\$ 6,430,027		\$	(8,643)	12.2627	\$	(8,922)	\$6,430,306				

Annual Pension Cost and Net Pension Asset:

Fiscal Year Ended	09/30/2010	09/30/2011	09/30/2012	09/30/2013	09/30/2014
Annual Required Contribution (ARC)	\$ 6,109,706	\$ 6,183,134	\$ 6,847,346	\$ 6,347,310	\$ 6,430,027
Interest on Net Pension Asset	(1,549)	(1,545)	(1,541)	(1,537)	(8,643)
Adjustment to Annual Required Contribution	1,599	1,595	1,591	1,587	8,922
Annual Pension Cost (APC)	\$ 6,109,756	\$ 6,183,184	\$ 6,847,396	\$ 6,347,360	\$ 6,430,306
Employer Contributions Made	(6,109,706)	(6,183,134)	(6,847,346)	(6,437,310)	
(Increase) decrease in Net Pension (Asset)	\$ 50	\$ 50	\$ 50	\$ (89,950)	
Net Pension (Asset), beginning of year	(19,607)	(19,557)	(19,507)	(19,457)	
Net Pension (Asset), end of year	\$ (19,557)	\$ (19,507)	\$ (19,457)	\$ (109,407)	

 $^{\ ^*}$ Information prior to October 1, 2002 provided by the prior actuaries.

Table X (continued five)

V. Schedule of Employer Contributions (As required by GASB #25)

Plan Year	Annual Required Contribution ⁴	Percentage Contributed
(1)	(2)	(3)
1992	653,489	100%
1993	605,443	100%
1994	562,893	103%
1995	1,119,160	100%
1996	1,342,631	116%
1997	1,422,742	104%
1998	1,281,149	106%
1999	1,526,299	105%
2000	1,382,000	100%
2001	1,952,361	100%
2002	2,365,267	100%
2003	3,040,575	100%
2004	3,090,663	100%
2005	3,827,510	100%
2006	4,542,018	100%
2007	4,644,822	100%
2008	5,594,422	100%
2009	5,594,422	100%
2010	6,109,706	100%
2011	6,183,134	100%
2012	6,847,346	100%
2013	6,347,310	100%

VI. Notes to Required Supplementary Information

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Valuation Date	October 1, 2013
Actuarial cost method	Entry Age Normal Level Percent
Amortization method	Layered amortization
Remaining amortization period	30 years
Asset valuation method	See Table XII., Item 9.
Actuarial assumptions:	
Investment rate of return*	7.90%
Projected salary increases*	6.25%
Cost-of-living adjustments	2.0% per year with 130% cap and 5-year delay

^{*} Includes inflation at 4.0%

-

 $^{^{4}\,}$ Determined by the prior plan year's actuarial valuation.

Table X (continued six)

Accounting Disclosure Exhibit

VII. Revenues by Source and Expenses by Type

				Re	venue	es by Source	<u>;</u>		
Plan	Employee Town				State	nvestment			
Year	<u>C</u> c	ontributions	<u>C</u>	ontributions	Contributions			Income	Total
2013	\$	1,008,385	\$	5,750,247	\$	687,063	\$	10,729,490	\$18,175,185
2012	\$	1,000,501	\$	6,203,084	\$	644,262	\$	13,527,481	\$21,375,328
2011	\$	1,294,997	\$	5,571,296	\$	611,838	\$	712,793	\$ 8,190,924
2010	\$	903,077	\$	5,502,320	\$	637,164	\$	6,414,572	\$13,457,133
2009	\$	942,844	\$	4,987,036	\$	687,558	\$	2,109,774	\$ 8,727,212
2000	ф	016010	ф	4.005.406	Φ.	644 601	Ф	(F. 50.4.100)	Φ (1, 005, 7 01)
2008	\$	916,310	\$	4,037,436	\$	644,601	\$	(7,584,138)	\$ (1,985,791)
2007	\$	992,181	\$	3,934,632	\$	621,375	\$	7,618,193	\$13,166,381
2006	\$	894,129	\$	3,279,992	\$	607,386	\$	2,659,663	\$ 7,441,170
2005	\$	726,109	\$	2,805,088	\$	572,173	\$	3,769,460	\$ 7,872,830
2004	\$	624,257	\$	2,764,336	\$	547,518	\$	2,497,167	\$ 6,433,278
				E	xpens	ses by Type			
Plan		Bene	fits o		<u> </u>				
Year		DROP	Payı	ments	Е	Expenses		Refunds	Total
			•	<u> </u>				<u>.</u>	
2013		\$ 4,8	50,5	525	\$	697,282	\$	9,457	\$ 5,557,264
2012		\$ 4,8	317,4	31	\$	646,042	\$	45,866	\$ 5,509,339
2011			91,7	82	\$	638,094	\$	0	\$ 5,229,876
2010			13,8	66	\$	538,422	\$	39,152	\$ 4,691,440
2009			92,0		\$	491,239	\$	44,162	\$ 4,327,488
2008			36,3	03	\$	443,745	\$	95,132	\$ 3,775,180
2007			21,9	52	\$	460,489	\$	96,446	\$ 3,178,887
2006		\$ 1,6	55,9	39	\$	408,426	\$	12,726	\$ 2,077,091
2005			62,5	99	\$	402,147	\$	66,325	\$ 1,831,071
2004			48,9	26	\$	340,474	\$	45,212	\$ 1,534,612

Contributions were made in accordance with actuarially determined contribution requirements.

Table XI

TOWN OF DAVIE POLICE PENSION PLAN

Outline of Principal Provisions of the Plan

1. Effective Date:

May 1, 1976. The most recent plan amendments recognized was Ordinances 2011- 18 and 2011- 19. The ordinances were adopted on April 20, 2011.

2. <u>Eligibility Requirements:</u>

Effective August 6, 1981, all Police employees in the regular full-time service of the Town are eligible upon the attainment of age 18. Part-time employees who work less than 20 hours per week or five (5) months per year are excluded from participation in the plan.

3. <u>Tier One and Tier Two Participants:</u>

Police Officers hired prior to the creation of the Tier Two plan structure (April 20, 2011) are classified as Tier One Participants, otherwise, they are classified as Tier Two Participants.

4. Benefit Service:

Service of a member from employment date as a certified police officer through termination date measured in years and completed months. A member may buy back up to a total of four (4) years of prior military and sworn police service by paying the true actuarial cost of the increase service.

5. <u>Basic Compensation:</u>

Basic rate of salary paid to an employee including longevity pay and assignment pay but excluding overtime, bonuses and commissions. Payments for unused leave time (vacation, sick leave, etc.) are excluded. Effective October 1, 2001, basic compensation includes up to 70 hours of overtime pay per year. Effective October 1, 2003, basic compensation includes up to 120 hours of overtime pay per year. The limit on overtime hours increased to 150 hours effective October 1, 2006 and to 300 hours effective May 1, 2011.

6. Final Average Earnings (FAE):

Final Average Earnings is defined as the higher of (i) average monthly rate of basic compensation during the final thirty-six (36) successive calendar months of Benefit Service, or (ii) average monthly rate of basic compensation of the best five (5) of the last ten (10) years of Benefit Service, preceding actual retirement or termination.

7. Employee Contributions:

7.0% of basic compensation.

Table XI (continued two)

8. Accrued Benefit

For Tier One Participants:

The monthly accrued benefit is equal to 3.0% times FAE multiplied by the years and months of Benefit Service for the first 10 years, plus 4.0% times FAE for the next five (5) years of Benefit Service, plus 5.0% times FAE for the next five (5) years of Benefit Service, plus 2.0% of FAE times the next 10 years of Benefit Service. The maximum benefit is limited to 95% of FAE. However, after 47½ years of Benefit Service, benefits shall recommence at a rate of 2.0% of FAE per year.

For Tier Two Participants:

The monthly accrued benefit is equal to 3.0% times FAE multiplied by the years and months of Benefit Service for the first 20 years, plus 2.0% times FAE for each subsequent year of Benefit Service, subject to a maximum benefit of 80% of FAE. However, after 40 years of Benefit Service, benefits shall recommence at a rate of 2.0% of FAE per year.

9. Normal Retirement Date:

The first of the month coincident with or next following the earlier of (i) completion of 20 years of Benefit Service or (ii) the attainment of age 55. For a vested terminated member with at least 15 years of Benefit Service, full deferred accrued benefit would be payable on the first of the month coincident with or next following the anniversary of the date that the member would have completed 20 years of Benefit Service.

10. Amount of Normal Retirement Income:

The monthly amount of Accrued Benefit, payable in the normal form of payment to a participant on his or her Normal Retirement Date.

11. Early Retirement Date:

Attainment of age 50 and completion of 10 years of Benefit Service.

12. Amount of Early Retirement Income:

The monthly amount of Accrued Benefit, payable in the normal form of payment to a participant on his Early Retirement Date.

he benefit will be reduced for early payment so that it is actuarially equivalent to the normal retirement benefit. Effective May 1, 2011, the early retirement reduction will be 3.0% per year for each year prior to Normal Retirement Date.

The participant also has the option of deferring the commencement of his monthly benefit to his Normal Retirement Date, the earlier of the date he would have attained 20 years of Benefit Service (provided he has completed 15 years of actual Benefit Service) or age 55. In such case, there would be no actuarial reduction to his monthly benefit.

Table XI (continued three)

13. Delayed Retirement Date:

A member may continue to work beyond his Normal Retirement Date and retire on any subsequent first day of the month.

14. Amount of Delayed Retirement Income:

The monthly amount of Accrued Benefit, payable in the normal form of payment to a participant who retires on his Delayed Retirement Date.

15. Benefits on Termination of Service:

In the event of termination of service prior to Normal Retirement Date, for reasons other than death, early retirement or disability, a monthly benefit equal to Accrued Benefit times the vested percentage below will be payable commencing on Normal Retirement Date.

In lieu of this deferred benefit, a participant may elect to receive the return of his employee contributions.

Years of	
Benefit Service	Vested
With the Town	Percentage
Logg than 10	0%
Less than 10	0%
10 or more	100%

16. Permissive Service Credit Purchases:

- a. A vested active participant shall be permitted to purchase permissive service credit in the form of an increased benefit accrual factor, which may be purchased in one percent (1.0%) increments above the participant's accrued benefit percentage, in an amount not to exceed twenty percent (20%) of FAE. The maximum amount of benefit accrual will remain at ninety-five percent (95%) of FAE for Tier One participants and eighty percent (80%) for Tier Two participants. The purchase cost would be the <u>full</u> actuarial cost of the increased benefit accrual multiplier and must be paid in full prior to the granting of the increased benefits.
- b. A vested active participant shall be permitted to purchase permissive service credit expressed as an earlier normal retirement date. Under such proposal, a participant would be able to receive an unreduced normal retirement benefit as early as upon the completion of 15 years of Benefit Service (instead of 20), if a purchase of the maximum of five (5) years of permissive service credit were made. However, the participant would not accrue a higher multiplier, but would be permitted to begin receiving an unreduced retirement benefit with fewer years of actual service. The purchase cost would be the full actuarial cost of the earlier commencement of retirement benefits and must be paid in full prior to the granting of the increased benefits.

Table XI (continued four)

c. The cost of either purchase may be made either in one lump sum or made in payroll deductions installments for a period not to exceed five (5) years, with 7.0% per annum interest added, and must be completed prior to commencement of any enhanced benefit.

17. Disability Retirement Benefits:

For a member totally and permanently disabled where the disability is service-connected, the monthly benefit shall be equal to the greater of (i) 66-2/3% of such member's base pay at time of disability, less any benefits payable by Federal Old Age, Survivors and Disability Insurance, Worker's Compensation benefits or other disability benefits payable from Broward County or the Town because of disability, age or unemployment. Effective May 1, 2011, the benefit after offset shall in no case be less than the member's Accrued Benefit at date of disability or (ii) forty-two percent (42%) of FAE payable as a ten year certain and life annuity. The monthly non-service connected benefit is the greater of \$100 or 1.5% times FAE multiplied by the number of years of Benefit Service, less any of the offset amounts described above. Effective May 1, 2011, the minimum non-service connected disability benefit shall be the greater of the Accrued Benefit or twenty-five percent (25%) of FAE, payable as a ten year certain and life annuity. In no event will the service-connected benefit be less than the non-service connected benefit. Benefits shall be payable starting six (6) months after termination of service for disability, and will be payable for life or until recovery.

18. Death Benefits:

a. <u>Prior to retirement</u>: If death is non-service connected or member had no spouse to whom he had been married to for at least one (1) year prior to death, the death benefit shall be the return of accumulated employee contributions plus prior plan benefits, if any. However, if a member had at least 10 years of Benefit Service at the time of death, then his or her beneficiary will be entitled to the benefits otherwise payable to the member at Early or Normal Retirement Date.

If death is service-connected and member has an eligible spouse to whom he had been married to for at least one (1) year prior to death, such spouse shall be entitled to a monthly annuity equal to the greater of (i) 50% of base pay at his date of death, or (ii) Accrued Benefit payable to the eligible spouse on the date of what would have been the member's Normal Retirement Date. Such pension shall continue to the spouse until the spouse's death, with a guarantee that such benefits will at least equal the accumulated contributions at his date of death. If a member had no eligible spouse but had at least 10 years of Benefit Service at the time of death, then his or her beneficiary will be entitled to the benefits otherwise payable to the member at Early or Normal Retirement Date.

b. <u>After retirement</u>: If a member had elected a joint and survivor or a 10 year certain and life optional form of payment, the adjusted monthly benefit will be continued to the beneficiary until the appropriate annuity ending date. Total benefits payable the member and his beneficiary will not be less than the amount of accumulated contributions at date of retirement.

Table XI (continued five)

19. Normal Form of Retirement Income:

For a married participant, the normal form of retirement income will be monthly payments for life of the member, with benefit continuing to spouse after member's death for one (1) year and 60% of benefit payable to spouse thereafter. The benefit amount is not reduced due to this form of payment. The participant may also elect to receive the benefit as an unreduced ten year certain and life annuity.

For an unmarried participant, the normal form of payment will be an unreduced ten year certain and life annuity.

20. Optional Forms of Retirement Income:

The following optional forms of retirement income may be elected by a member without presenting evidence of good health, if elected at least one year prior to his date of retirement:

Option 1 A single life annuity payable during the lifetime of the participant only.

Option 2 A retirement annuity payable to the member during the joint lifetime of the member and a joint pensioner designated by the member, and following the death of either of them, 50%, 66-2/3%, 75%, or 100% depending on the retiree's election, of such smaller monthly amount payable to the survivor for the lifetime of the survivor.

Option 3 A monthly annuity payable to the member for ten years certain and life thereafter.

21. Deferred Retirement Option Plan (DROP):

The DROP is available only if the member makes an irrevocable election to participate after meeting the eligibility for Normal Retirement Benefit. The DROP has a five (5) year maximum participation period, after which the employee is deemed separated from the Town. In no event can a member who enters the DROP exceed 30 years of total Benefit Service plus years of DROP participation. If the member dies or becomes disabled during the DROP period, the member will have presumed to have retired on a normal retirement on the day prior to disability or death.

22. Cost of Living Adjustments (COLA):

An annual COLA will be provided to retirees and beneficiaries. The amount of the COLA will be 2.0% per year. For recipients who retired prior to October 1, 1997, the monthly benefit after the yearly COLA will not exceed 115% of the original monthly benefit prior to any COLA. For post October 1, 1997 retirees, the limit for future monthly benefits after COLA will be 130% of the original benefit amounts prior to any COLA. The first annual COLA will commence on the fifth anniversary of retirement, but no earlier than November 1, 2004.

23. Changes from October 1, 2012 Valuation:

None.

Table XII

TOWN OF DAVIE POLICE PENSION PLAN

Actuarial Assumptions and Actuarial Cost Methods

1. <u>Mortality</u>:

For healthy participants, the 1983 Group Annuity Mortality Table was used with separate rates for males and females.

For disabled participants, the 1985 Pension Disability Table was used with separate rates for males and females.

No provision was made for future mortality improvement.

50% of all pre-retirement deaths are assumed to be duty related.

2. <u>Interest to be Earned by Fund</u>:

7.90%, compounded annually.

3. Allowances for Expenses or Contingencies:

Estimated by actual expenses paid during previous year.

4. Employee Withdrawal Rates:

Withdrawal rates were used in accordance with tables per the following illustrative example:

		rawal Rates Employees
Age	Male	Female
20	10.5	17.5
25	7.0	10.5
30	4.9	7.0
35	3.5	4.9
40	2.0	3.5
45	1.3	2.0
50	0.3	1.3
55 & over	0.0	0.0

5. Assumptions on Pensionable Overtime Hours

Each member is assumed to continue to work the same number of overtime hours as in the most recent plan year, subject to the 300 hours maximum, for each future year.

Table XII (continued two)

6. <u>Disability Rates</u>:

The 1985 Disability Study - Class 1 with separate male and female rates were used. 75% of disabilities assumed to be service incurred, 25% assumed to be non-service incurred.

7. Salary Increase Factors:

Current salaries were assumed to increase at a rate of 6.25% per year until retirement.

8. Rates of Retirement:

The following are the retirement rates assumed for the participants eligible for retirement:

Participants w years of Benef		Participants with less than 20 years of Benefit Service				
Years of Service	Percentage Retiring	Age	Percentage Retirement			
20	65%	50-54	25%			
21 - 24	50%	55-59	50%			
25 and over	100%	60 and over	100%			

However, active participants eligible for retirement that have less than 20 years of Benefit Service as of the valuation date are assumed to have a minimum of one year future service.

9. Asset Valuation Method:

The actuarial value of assets is determined by smoothing the differences between actual investment earnings and assumed investment return over three (3) years. This method was adopted effective October 1, 2007 with no phase-in. The resulting value would then be limited to between 80% and 120% of market value.

10. Actuarial Cost Method:

Normal Retirement, Termination, Disability and Pre-Retirement Death Benefits: Entry-Age-Actuarial Cost Method.

Under this method the normal cost for each active employee is the amount which is calculated to be a level percentage of pay that would be required annually from his date of hire to his retirement age to fund his estimated benefits, assuming the plan had always been in effect. The normal cost for the plan is the sum of the individual normal costs for all active participants. The actuarial accrued liability as of any valuation date for each active employee or inactive employee who is eligible to receive benefits under the plan is the excess of the actuarial present value of estimated future benefits over the actuarial present value of current and future normal costs. The unfunded actuarial accrued liability as of any valuation date is the excess of the actuarial accrued liability over the actuarial value of assets of the plan.

Table XII (continued three)

11. <u>Marriage Assumptions:</u>

100% of active participants were assumed married, with husbands three (3) years older than wives.

12. <u>Valuation of Normal Form of Payment:</u>

The normal form of payment is valued as an unreduced joint and 60% survivor annuity benefit for married members. For unmarried members, the normal form of payment is valued as a ten year certain and life annuity.

13. Changes from October 1, 2012 Actuarial Valuation

None

Table XIII

TOWN OF DAVIE POLICE PENSION PLAN

<u>Distribution of Active Participants by Age and Service Groups</u> <u>as of October 1, 2013</u>

Years of Credited Service

<u>Age</u>	<u>0 - 4</u>	<u>5 - 9</u>	<u>10 - 14</u>	<u>15 - 19</u>	<u>20 - 24</u>	<u>25 - 29</u>	30 & Over	Total
Under 25	9							9
25 - 29	13	6			•		•	19
30 - 34	5	14	3					22
35 - 39	3	16	16	5	•			40
40 - 44	2	2	12	18				34
45 - 49	1	3	6	17				27
50 - 54		2		3	2	•	•	7
55 - 59	•		1		•		•	1
60 - 64				1				1
65 & Over	•				•		•	0
TOTAL	33	43	38	44	2	•	 .	160
			10/0	01/2012	10/01/2013			
	Averag	e Attained Age	38.	37 years	38.33 years			
	Average	e Pay	\$	85,620	\$86,981			
	Percent	Female		13.2%	13.75%			

Table XIV

TOWN OF DAVIE POLICE PENSION PLAN

Reconciliation of Participant Data

A.	Ac	tive Participants	
	1.	Active participants previous year	152
	2.	Retired during year	0
		Entered DROP during year	(2)
		Died during year	0
	5.	Disabled during year	0
	6.	Terminated vested during year	0
	7.	Terminated non-vested during period	(2)
	8.	New active participants	12
	9	Rehired	0
	10.	Active participants current year	160
B.	Par	rticipants Receiving Benefits	
	1.	Participants receiving benefits previous year	87
	2.	New retired participants	0
		New terminated vested receiving benefits	0
		New disabled receiving benefits	0
		New beneficiaries receiving benefits	0
		DROP participants exited and retired	3
		Died or ceased payment during year	0
	8.	Retired or terminated vested receiving benefits current year	90
C.	<u>Te</u>	rminated Participants Entitled to Future Benefits	
	1.	Terminated participants entitled to future benefits previous year	1
	2.		0
	3.	Rehired	0
	4.	Commenced receiving benefits during year	0
	5.	New terminated participants	0
	6.	Terminated participants entitled to future benefits current year	1
D.	DF	ROP Participants	
	1.	DROP participants previous year	11
		New entrants during year	2
		Died during year	0
		Exited and retired during year	(3)
	5.	DROP participants current year	10

Table XV

TOWN OF DAVIE POLICE PENSION PLAN

Statistics for Participants Entitled to Deferred Vested Benefits and Participants Receiving Payments

A. Entitled to Deferred Benefits

		Total	Average
Current Age		Annual	Annual
<u>Group</u>	Count	<u>Benefit</u>	Benefit
Less than 40	1	\$ 28,155	\$ 28,155
40 - 44	0	0	0
45 - 49	0	0	0
50 - 54	0	0	0
55 - 59	0	0	0
60 - 64	0	0	0
65 & over	0	0	0
TOTAL	1	\$ 28,155	\$ 28,155

B. Receiving Benefits (includes DROP participants)

		Total	Average
Current Age		Annual	Annual
Group	Count	<u>Benefit</u>	Benefit
Less than 40	3	\$ 28,313	\$ 9,438
40 - 44	2	91,148	45,574
45 - 49	19	1,178,772	62,041
50 - 54	23	1,269,376	55,190
55 - 59	19	1,024,856	53,940
60 - 64	15	731,611	48,774
65 & over	<u>19</u>	704,877	37,099
TOTAL	100	\$ 5,028,953	\$ 50,290

Table XVI

TOWN OF DAVIE POLICE PENSION PLAN

Recent Investment, Salary Increase, and Turnover Experience

A. <u>Investment Return</u>

Comparison of actual to assumed investment return for the last five years:

_	Rate of Return					
_	Market	Actuarial				
Year Ended	Value	Value	Assumed			
09/30/2013	10.8%	12.6%	7.90%			
09/30/2012	17.8%	13.9%	7.90%			
09/30/2011	1.0%	(2.6%)	7.90%			
09/30/2010	9.7%	10.8%	7.90%			
09/30/2009	3.7%	3.9%	8.00%			
	0.77					
Last 3 Yrs.	9.6%	7.7%	7.90%			
Last 5 Yrs.	8.4%	7.5%	7.92%			

B. Recent Salary Increase and Turnover Experience

	Salary Increase		
Year Ended	Actual	Assumed	Ratio of Actual Turnover to Expected
00/20/2012	5 40/	6.250/	0.62
09/30/2013	5.4%	6.25%	0.62
09/30/2012	1.4%	6.25%	0.44
09/30/2011	9.5%	6.25%	0.00
09/30/2010	6.1%	6.25%	0.94
09/30/2009	10.3%	6.50%	0.26
Last 3 Yrs.	5.4%	6.25%	0.35
Last 5 Yrs.	6.5%	6.30%	0.45

Table XVII

TOWN OF DAVIE POLICE PENSION PLAN

State Required Exhibit

		-		10/1/2012		10/1/2013
A.	Parti	cipant Data				
	1.	Active participants		152		160
	2.	Retired participants and beneficiaries receiving benefits		81		84
	3.	Beneficiaries due deferred benefits		0		0
	4.	DROP participants		11		10
	5.	Disabled participants receiving benefits		6		6
	6.	Terminated vested participants		1		1
	7.	Total participants		251		261
	8.	Annual payroll of active participants	\$	13,014,220	\$	13,916,944
	9.	Annual benefits payable to those currently receiving benefits	\$	4,032,197	\$	4,339,340
	10.	Annual benefits payable to beneficiaries due deferred benefits	\$	0	\$	0
	11.	Annual benefits payable to terminated deferred benefits	\$	28,155	\$	28,155
	12.	Annual benefits payable to DROP participants	\$	746,733	\$	689,613
В.	Valu	e of Assets				
	1.	Actuarial value	\$	86,545,636	\$	97,980,901
	2.	Market value	\$	88,219,142	\$	100,837,063
C.	Liab	<u>ilities</u>				
	1.	Actuarial present value of future expected benefit payments for active members				
		a. Retirement benefits	\$	79,302,003	\$	86,115,995
		b. Vesting benefits		2,922,789		2,936,398
		c. Death benefits		663,750		675,965
		d. Disability benefits		815,939		843,723
		e.Total	\$	83,704,481	\$	90,572,081
	2.	Actuarial present value of future expected benefit payments for terminated vested members	\$	86,672	\$	93,617
	3.	Actuarial present value of future expected benefit payments for beneficiaries due deferred benefits	\$	0	\$	0
	4.	Actuarial present value of future expected benefit payments for those receiving benefits				
		a. Service retired	\$	44,970,530	\$	47,789,683
		b. DROP participants		9,845,490		9,366,189
		c. Disability retired		2,241,342		2,219,671
		d. Beneficiaries	_	2,582,787	_	2,568,934
		e. Total	\$	59,640,149	\$	61,944,477

Table XVII (continued two)

				10/1/2012	10/1/2013
				_	
	5.	Miscellaneous (refund unpaid)	\$	0	\$ 0
	6.	Total actuarial present value of future expected benefit payments	\$	143,431,302	\$ 152,610,176
	7.	Actuarial accrued liabilities	\$	114,812,797	\$ 123,723,340
	8.	Unfunded actuarial accrued liabilities	\$	28,267,161	\$ 25,742,439
D.	<u>Sta</u>	tement of Accumulated Plan Benefits			
	1.	Actuarial present value of accumulated vested plan benefits			
		a. Participants currently receiving benefits	\$	49,794,659	\$ 52,578,288
		b. Beneficiaries due deferred benefits		0	0
		b. DROP participants		9,845,490	9,366,189
		c. Other participants	_	31,031,980	<u>37,592,406</u>
		d. Total	\$	90,672,129	\$ 99,536,883
	2.	Actuarial present value of accumulated non- vested plan benefits		7,012,172	7,304,355
	3.	Total actuarial present value of accumulated plan benefits	\$	97,684,301	\$ 106,841,238
E.	<u>Sta</u>	tement of Change in Accumulated Plan Benefits			
	1.	Actuarial present value of accumulated plan benefits as of October 1, 2012	\$	97,684,301	
	2.	Increase (decrease) during year attributable to:			
		a. Plan amendment		0	
		b. Actuarial assumptions and methods changes		0	
		c. Benefits paid and contribution refunds		(4,205,601)	
		d. DROP benefits credited		(654,381)	
		e. Other, including benefits accumulated and increase for interest due to decrease in the discount period	_	14,016,919	
		f. Net increase (decrease)	\$	9,156,937	
	3.	Actuarial present value of accumulated plan benefits as of October 1, 2013	\$	106,841,238	

Table XVII (continued three)

	_			10/1/2012		10/1/2013
F.	Pens	sion Cost				
	1.	Total normal cost including expenses	\$	4,367,229	\$	4,669,085
	2.	Expected member contribution		910,995		974,186
	3.	Item 2. as percentage of payroll		7.0%		7.0%
	4.	Net employer normal cost	\$	3,456,234	\$	3,694,899
	5.	Payment required to amortize				
		unfunded liability		2,549,582		2,386,360
	6.	Total employer required contribution				
	0.	(including interest)	\$	6,347,310	\$	6,430,027
	7.	Item 6. as a percentage of payroll		48.8%		46.2%
	8.	State contributions	\$	644,262	\$	687,063
	9.	Item 8. as a percentage of payroll		5.0%		4.9%
	10.	Net amount payable by Town	\$	5,703,048	\$	5,742,964
	11.	Item 10. as a percentage of payroll		43.8%		41.3%
G.	Past	Contributions				
	1.	Total contribution required	\$	7,258,305	\$	7,404,213
	2.	Actual contributions made:	4	,,200,000	4	,,,
		a. Employees	\$	1,008,385		N/A
		b. Town	Ψ	5,750,247		N/A
		c. State		687,063		N/A
		d. Total	\$	7,445,695		N/A
			Ψ	.,,.,.		1 1/1 1
H.	Net	Actuarial Gain (Loss)	\$	5,888,892	\$	1,818,136
I.	Disc	closure of Following Items:				
	1.	Actuarial present value of future salaries -				
	1.	attained age	\$	100,465,070	\$	103,119,545
	2.	Actuarial present value of future employee				
	۷.	contributions - attained age	\$	7,032,555	\$	7,218,368
	3.	Actuarial present value of future contributions				
	<i>J</i> .	from other sources		N/A		N/A
	4.	Amount of active members' accumulated				
		contributions	\$	7,547,022	\$	8,315,907
	5.	Actuarial present value of future salaries and				
	٠.	future benefits at entry age	Not	provided by soft	tware	
	6.	Actuarial present value of future employee				
		contributions at entry age	Not	provided by soft	tware	

Table XVII (continued four)

<u>J</u> Unfunded Actuarial Accrued Liabilities

Description and Amount of Original Liability	Remaining Amortization Period	Unamortized Amount as of Valuation Date	Amortization Payment
10/01/1994 Plan Amendment	11 years	2,300,971	297,266
10/01/1996 Assumption Change	13 years	(24,747)	(2,886)
10/01/1997 Plan Amendment	14 years	(457,812)	(51,167)
10/01/1999 Assumption Change	16 years	(2,675,088)	(278,307)
10/01/2000 Plan Amendment	17 years	2,632,969	265,735
10/01/2002 Method Change	19 years	3,694,365	353,959
10/01/2003 Actuarial Loss	20 years	1,203,885	112,796
10/01/2003 Plan Amendment	20 years	1,700,999	159,373
10/01/2004 Actuarial Loss	21 years	398,142	36,555
10/01/2005 Actuarial Loss	22 years	1,774,185	159,920
10/01/2005 Plan Amendment	20 years	980,021	91,822
10/01/2006 Actuarial Loss	23 years	2,832,593	251,073
10/01/2006 Plan Amendment	23 years	2,337,513	207,191
10/01/2006 Ch. 185 Plan Amendment	23 years	251,863	22,324
10/01/2007 Actuarial (Gain)	24 years	(225,090)	(19,648)
10/01/2007 Asset Method Change	24 years	(2,282,912)	(199,278)
10/01/2008 Actuarial Loss	25 years	9,002,158	774,902
10/01/2009 Actuarial Loss	26 years	3,897,821	331,262
10/01/2009 Assumption Change	26 years	686,600	58,352
10/01/2010 Actuarial (Gain)	27 years	(3,049,091)	(256,117)
10/01/2010 Plan Amendment	27 years	348,745	29,294
10/01/2011 Actuarial Loss	28 years	7,988,287	663,840
10/01/2012 Actuarial Gain	29 years	(5,755,802)	(473,635)
10/01/2013 Actuarial Gain	30 years	(1,818,136)	(148,266)
TOTAL:		\$ 25,742,439	\$ 2,386,360

Table XVII (continued five)

This actuarial valuation and/or cost determination 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.

Donald A. DuLaney, Jr. A.S.A., E.A. Senior Consulting Actuary	Panrong Xiao, E.A., M.A.A.A. Enrolled Actuary
	2/10/2014
Date	Date
11-04191	11-07551
Enrollment Number	Enrollment Number