ACTUARIAL VALUATION OF CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM AS OF OCTOBER 1, 2015

July, 2016

Determination of Contribution for the Plan Year ending September 30, 2016 Contribution to be Paid in Fiscal Year October 1, 2015 through September 30, 2016

> DuLaney and Company, Inc. Actuarial Services



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July 8, 2016

Board of Trustees City of Lauderhill Police Officers' Retirement System 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, 2015 Actuarial Valuation for the City of Lauderhill Police Officers' Retirement System. 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, 2015

This Actuarial Valuation develops the required minimum Retirement Plan payment for the fiscal year beginning October 1, 2015 and ending September 30, 2016 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 anticipate that the member contributions will be \$847,988 (10.0% of covered payroll).

The required funding amount for the plan/fiscal year ending September 30, 2016, to be met by the City and State contributions under Chapter 185 is 32.1% of the covered payroll. The anticipated State (Chapter 185) contribution is \$365,170. The City and State required contribution, computed based on the October 1, 2015 covered payroll of \$8,479,879, is \$2,723,906 or 32.1% of covered payroll, if the payment requirement is met by September 30, 2016. We have assumed that the State contribution available (limited by rules under Chapter 99-1) would be \$365,170 (same as the amount the City was credited with for contribution purposes for the prior plan/fiscal year, and assumed to be 4.3% of covered payroll), the required City contribution would be \$2,358,736 (27.8% of covered payroll). Under the rules of Chapter 99-1, any amount of the State contribution received above the assumed amount of \$365,170 up to the adjusted base amount of \$504,799 can be used to reduce the City's contribution requirement. If the actual State contribution is less than the assumed amount, the shortfall must be made up by the City.

Board of Trustees July 8, 2016 Page 2

Please note that Chapter 185 states that employer contributions must be made at least quarterly.

Changes in Plan Provisions, Actuarial Methods or Assumptions Recognized in this Valuation

There were no changes in the actuarial assumptions and methods utilized in this valuation from those of the October 1, 2014 valuation. Table XII contains an outline of the assumptions and methods used.

Comparison of Costs With Previous Valuation Year of 2014/2015

Table II of the report provides information of a comparative nature. Column I shows the results of the October 1, 2014 Actuarial Valuation while Column II shows the results as of October 1, 2015. Covered payroll decreased by approximately 12.7% while the number of active participants decreased by about 15.0%. The unfunded liability decreased from \$14,801,856 to \$14,492,346 during the plan year. The City minimum funding requirement increased from 25.5% to 27.8% of the covered pension payroll. However, the City minimum funding requirement decreased from \$2,475,031 to \$2,358,736.

Plan Experience

Table XVI provides a summary of certain plan experience during the plan year. The actuarial value of assets return was 8.8% for the plan year ended September 30, 2015, which was above the assumption of 7.50%. The market value rate of return was 1.3%. Employee turnover was 12% higher than the expected turnover during the last plan year. The actual pensionable earnings increased by an average of 3.2% per active member as compared to the assumption of 5.5%. The actuarial value of assets return, salary experience, and turnover experience were the sources of actuarial gain during the plan year. A more detailed analysis would be needed to determine the actual magnitude of gain or loss attributable to each of these elements.

Participant Census and Financial Data

Census data for the fiscal year October 1, 2014 through September 30, 2015 was provided by the plan administrator, the plan auditor, and the City. 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.



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DuLaney and Company

Donald A. DuLaney, Jr. A.S.A.

Senior Consulting Actuary

DAD/PX Attachments The state of the s

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



Table I

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Summary of Retirement Plan Costs as of October 1, 2015

		Cost Data	% of Payroll
A.	Participant Data Summary (Table III)		
	1. Active employees		
	a) Tier One	67	N/A
	b) Tier Two	24	N/A
	c) Total	91	N/A
	2. Terminated vested	10	N/A
	3. Receiving benefits	33	N/A
	4. DROP participants	10	N/A
	5. Annual payroll of active employees	\$ 8,479,879	100.0%
В.	Total Normal Costs		
	1. Age retirement benefits	\$ 1,778,696	21.0%
	Deferred vesting benefits	206,732	2.4%
	3. Death benefits	11,987	0.1%
	4. Disability benefits	29,286	0.3%
	5. Estimated expenses	<u> </u>	1.8%
	6. Total annual normal costs	\$ 2,181,190	25.7%
C.	Total Actuarial Accrued Liability		
	1. Age retirement benefits active employees	\$ 32,826,892	387.1%
	2. Termination benefits active employees	1,125,453	13.3%
	3. Death benefits active employees	96,711	1.1%
	4. Disability benefits active employees	110,113	1.3%
	5. Retired or terminated vested participants	,	
	receiving benefits	20,147,132	237.6%
	6. DROP participants	11,056,074	130.4%
	7. Terminated vested participants entitled		
	to future benefits	807,374	9.5%
	8. Deceased participants whose beneficiaries		
	are receiving benefits	207,691	2.4%
	9. Disabled participants receiving benefits	<u>626,183</u>	7.4%
	10. Total actuarial accrued liability	\$ 67,003,623	790.1%



Table I (continued two)

		Cost Data	% of Payroll
D.	Actuarial Value of Assets (Table VI)	\$ 52,511,277	619.2%
E.	Unfunded Actuarial Accrued Liability (CD.)	\$ 14,492,346	170.9%
F.	Actuarial Gains / (Losses) (Table VIII)	\$ 34,968	0.4%
G.	Minimum Funding Requirements		
	 Total normal cost Amortization of unfunded actuarial accrued liability Interest adjustment Total payment 	\$ 2,181,190 1,287,765 102,939 \$ 3,571,894	25.7% 15.2% — 1.2% 42.1%
H.	Estimated Contribution Sources		
	 City State Employees 	\$ 2,358,736 \$ 365,170 \$ 847,988	27.8% 4.3% 10.0%
I.	Actuarial Present Value of Vested Accrued Benefits		
	 Retired, terminated vested, beneficiaries and disabled receiving benefits DROP participants Terminated vested participants entitled to future benefits Active participants entitled 	\$ 20,981,006 11,056,074 807,374	247.4% 130.4% 9.5%
	to future benefits 5. Total actuarial present value	25,522,395	301.0%
	of vested accrued benefits	\$ 58,366,849	688.3%
J.	Market Value of Assets (Table IV)	\$ 50,366,584	594.0%
K.	<u>Unfunded Actuarial Present Value of</u> <u>Vested Accrued Benefits</u> (I J., not less than \$0)	\$ 8,000,265	94.3%
L.	Vested Benefit Security Ratio (J. ÷ I.)	86.3%	N/A



Table II

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Comparison of Cost Data of October 1, 2014 and October 1, 2015 Actuarial Valuations

	Column I	ın I	Column II	ın II
	October 1, 2014	, 2014	October 1, 2015	1, 2015
		Jo %		% of
		Annual		Annual
	Cost Data	Pay	Cost Data	Pay
A. Participants				
1. Active employees			•	
- I rer One	85	A/X	19	A/N
- lier I wo	25	N/A	24	A/A
	107	N/A	91	A/N
2. Terminated vested	11	A/N	10	A/N
Receiving benefits	25	N/A	33	N/A
 DROP participants 	2	N/A	10	N/A
5. Annual payroll of active employees	\$ 9,712,011	100.0%	\$ 8,479,879	100.0%
B. Total Normal Costs	\$ 2,405,483	24.8%	\$ 2,181,190	25.7%
C. Actuarial Accrued Liability	\$ 61,625,752	634.5%	\$ 67,003,623	790.1%
D. Actuarial Value of Assets	\$ 46,823,896	482.1%	\$ 52,511,277	619.2%
E. Unfunded Actuarial Accrued Liability	\$ 14,801,856	152.4%	\$ 14,492,346	170.9%
F. Actuarial Gains / (Losses)	\$ 368,363	3.8%	\$ 34,968	0.4%
G. City Minimum Funding Requirement	\$ 2,475,031	25.5%	\$ 2,358,736	27.8%
 H. Unfunded Actuarial Present Value of Vested Accrued Benefits 	\$ 4,244,891	43.7%	\$ 8,000,265	94.3%
I. Vested Benefit Security Ratio*	92.0%	N/A	86.3%	N/A

^{*} Computed based on market value of assets.



Table III

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Characteristics of Participants in Actuarial Valuation as of October 1, 2015

A. Characteristic of Active Participants

1.	Active participants as of beginning of prior year		107
2.	New entrants during prior year		2
3.	Exits during prior year		(18)
4.	Active participants as of beginning of year		91
5.	Active participants fully vested		67
6.	Active participants partially vested		0
7.	Active participants non-vested		24
8.	Annual payroll of active participants	\$	8,479,879
9.	Average pay	\$	93,185
10.	Average attained age	Ψ	38.6 years
11.	Percent female		6.6%

B. Characteristics of Inactive Participants

1.	Inactives as of beginning of prior year		38
2.	Newly inactive during prior year		15
3.	Exits during prior year		
4.	Inactives as of beginning of year		(<u>0)</u> 53
5.	Age retirees		29
6.	Projected annual benefit for age retirees	\$	1,645,793
7.	DROP participants	Ψ	1,043,793
8.	Projected annual benefit for DROP participants	\$	905,933
9.	Beneficiaries receiving benefits	Ψ	703,733
10.	Projected annual benefits for beneficiaries receiving benefits	\$	21,110
11.	Disabled participants receiving benefits	Ψ	21,110
12.	Projected annual benefits for disabled participants	\$	66,754
13.	Terminated vested due deferred benefits	*	10
14.	Projected annual benefits for terminated vested participants	\$	196,856



Table IV

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Statement of Assets as of October 1, 2015

Α.	Aggata		Market Value
Α.	Assets 1. Cash and Cash Equivalents 2. Common Stocks 3. Domestic Fixed Income Funds 4. Domestic Equity Funds 5. International Equity Funds 6. Accrued Interest & Dividends Receivable 7. Receivable City Contributions 8. Receivable Employee Contributions 9. Receivable Buyback Contributions 10. Note Receivable 11. Real Estate Fund 12. Other Assets 13. Assets Purchased with Receivable Buyback Contributions Paid	\$	510,738 11,227,364 7,474,387 11,899,664 11,099,572 57,912 0 0 2,000,000 7,006,581 25,000
	14. Total Assets	\$	60,763 51,361,981
B.	Liabilities 1. Prepaid City Contributions 2. Securities Purchased Payable 3. Benefits Payable 4. Unused Chapter 185 Funds 5. Deferred Retirement Option Plan Accounts Payable 6. Accounts Payable 7. Total Liabilities	\$	0 35,008 0 0 922,420 37,969 995,397
C.	Grand Total (Item A.14. – Item B.7.)	<u>\$</u>	50,366,584



¹ At market value as reported by Plan's Auditors.

Table V

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Reconciliation of Plan Assets¹

A.	<u>M</u> a	arket Value of Assets as of October 1, 2014	\$ 48,641,964				
B.	Re	eceipts During Period					
	1.	Contributions a. City \$ 2,466,585 b. Employee 1,014,541 c. State (not limited by 99-1) 365,170 d. Total	Ф 2 846 206				
	2.	Investment income a. Interest, dividends and miscellaneous income \$ 1,346,694 b. Investment expenses (142,923)	\$ 3,846,296				
	3.	 a. Realized appreciation \$ (907,386) b. Unrealized appreciation (27,615) 	\$ 1,203,771				
	4.	c. Total Receivable buyback contributions paid	\$ (935,001)				
	5.	Total receipts during period (1.d. + 2.c. + 3.c. + 4.)	\$ 60,763 \$ 4.175,829				
	•		\$ 4,175,829				
C.	<u>Dis</u> 1.	sbursements During Period Pension payments	\$ 1,513,029				
	2.	DROP payments	615,327				
	3.	Contribution refunds	43,562				
	4.						
	5.	154,489					
		5. Increase / (decrease) in Chapter 185 reserve 6. Decrease in receivable buyback contributions 124,8					
	7.	Total disbursements during period	\$ 2,451,209				
D.	Ma	arket Value of Assets as of October 1, 2015 (A. + B.5 C.7	<u>\$ 50,366,584</u>				
E.	Rec	conciliation of DROP Accounts Balance					
	 DROP accounts balance as of October 1, 2014 Benefit payments into DROP accounts during year Disbursements from DROP accounts during year Expenses deducted from DROP accounts 						
	5.	Investment gains/(losses) during year	(0) $29,280$				
	6.	DROP accounts balance as of September 30, 2015	\$ 922,420				

¹ As reported by Plan's Auditors.



Table VI

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Development of Actuarial Value of Assets

	- "	10/1/2014 – 9/30/2015	= 0,	10/1/2013 – 9/30/2014		10/1/2012 – 9/30/2013	ĺ	10/1/2011 – 9/30/2012		10/1/2010 – 9/30/2011
 A. Preliminary actuarial value of assets as of beginning of year B. Contributions and miscellaneous income 	↔	46,823,896 3,846,296	6-9	40,582,741 3,943,548	⊗	34,645,3 4 1 3,819,920	\$	29,529,579 4,377,410	€43	26,633,168 3,483,585
 C. Benefit payments and administrative expenses D. Actual investment earnings net of investment expenses 		2,326,407 336,872		1,500,141 3,867,913		1,165,613 5,463,866		1,169,231 4,735,524		839,591 (1,158,704)
 Expected investment earnings (A. x. 0750 + (BC.) x. 0375) F. Excess of actual over expected investment 		3,568,788		3,239,846		2,787,868		2,412,859		2,236,413
carnings (DE.) G. Recognition of excess earnings over 4 years		(3,231,916)		658,069		2,675,998		2,322,665		(3,395,117)
 25% from this plan year 25% from last plan year 		(807,979)		157,017		669,000		580,666		(848,779)
 25% from two plan years ago 25% from three plan years ago 		669,000 580,666	ĺ	580,666 (848,779)		(848,779) 94,338		94,338		(331,501) (898,054)
 Total Total actuarial value of assets at end of 		598,704		557,904	ĺ	495,225		(505,276)	ľ	(1,983,996)
year (A. + B. – C. + E. + G.5.) I. Actuarial value of assets limitations 1. Market value of assets prior to exclusion of	₩.	52,511,277	69	46,823,896	⇔	40,582,741	↔	34,645,341	69	29,529,579
Chapter 185 accumulated excess reserve 2. 80% of I.1. 3. 120% of I.1. 4. Actuarial value of assets	⊘	50,366,584 40,293,267 60,439,901	6/ 3	48,641,964 38,913,571 58,370,357	⇔	42,296,060 33,846,848 50,755,272	69	34,269,838 27,415,870 41,123,806	69	26,880,688 21,504,550 32,256,826
(H., but not less than I.2. or more than I.3.) J. Return on Actuarial Value K. Net actuarial value of assets	64 64 64	52,511,277 4,167,492 52,511,277	\$4 \$4 \$4	46,823,896 3,797,748 46,823,896	89 89 89	40,582,741 3,283,093 40,582,741	⇔ ↔ ••	34,645,341 1,907,583 34,645,341	89 89 89	29,529,579 252,417 29,529,579



Table VII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

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.

A. Benefit improvements needed to meet Chapter 185 minimum benefits:

None.

B. History of Chapter 185 contribution usage*

	Adjusted Base Am				nou	nt	Actual Amount Received					ed
Received During Plan Year		apter 185		ost for New enefits		Total hapter 185 ontribution Used		napter 185	Act	ccess of ual over Base mount	I A	umulative Excess of ctual over se Amount without Interest
1999/2000	\$	0	\$	92,774	\$	92,774	\$	126,081	\$	33,307	\$	33,307
2000/2001	\$	92,774	\$	0	\$	92,774	\$	131,250	\$	38,476	\$	71,783
2001/2002	\$	92,774	\$	175,245	\$	•	\$	153,775	\$	0	\$	71,783
2002/2003	\$	268,019	\$	0		268,019	\$	190,235	\$	0	\$	71,783
2003/2004	\$	268,019	\$.	236,780	\$		\$	249,479	\$	0	\$	71,783 0 ¹
2004/2005	\$	504,799	\$	0	\$	504,799	\$	243,140	\$	0	\$	0
2005/2006	\$	504,799	\$	0		504,799	\$	249,845	\$	0	.3 \$	-
2006/2007	\$	504,799	\$	0		504,799	\$	267,834	\$	0	\$ \$	0
2007/2008		504,799	\$	0		504,799	\$	298,188	\$	0		0
2008/2009		504,799	\$	0		504,799	\$	350,408	\$	-	\$	0
2009/2010		504,799	\$	0		504,799	\$	332,466	э \$	0	\$	0
2010/2011		504,799	\$	ő		504,799	\$ \$	285,072		0	\$	0
2011/2012		504,799	\$	0		504,799	\$	303,327	\$ \$	0	\$	0
2012/2013		504,799	\$	0		504,799	\$	·-		0	\$	0
2013/2014		504,799	\$	ő		504,799	э \$	310,332	\$	0	\$	0
2014/2015		504,799	\$	ő		504,799	Տ	356,564	\$	0	\$	0
	~ .	,.,,	Ψ	U	Ф	JUT, 177	3	365,170	\$	0	\$	0

^{*} Figures prior to the 2006/2007 plan year were as reported by the plan's prior actuary.



A one-time use in the amount of \$71,783 from the Cumulative Excess also occurred.

Table VIII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Actuarial Gains / (Losses) for Current and Prior Plan Years

A. Derivation of Actuarial Gain / (Loss) for Plan Year Ended September 30, 2015

1.	City and Chate we have			
2.	y and the provious variation	\$ 1,434,2		
	we we want an about about the provious variation	\$14,801,856		
3.	y man a surrection provides your (minious by 33-1)	\$ 2,831,7	755	
4.				
	(a) City normal costs \$ 107,571			
	(b) Unfunded actuarial			
	accrued liability 1,110,139			
	(c) City and State			
	contributions <u>94,779</u>			
	(d) Net total: (a) + (b) - (c)	\$ 1,122,9	31	
5.	Increase in unfunded actuarial accrued liability			
	due to plan amendment	\$	0	
6.	Increase in unfunded actuarial accrued liability	·	•	
	due to assumptions / methods change	\$	0	
7.	Expected unfunded actuarial accrued liability	·	•	
	current year: $1. + 2 3. + 4. + 5. + 6.$	\$14,527,314		
8.	Actual unfunded actuarial accrued liability current year	\$14,492,3		
9.	Actuarial gain / (loss): 7 8.	\$ 34,9		
Ar	proximate Portion of Plan Year Gain / (Loss) Due to Investments			
1.	Actuarial value of assets previous year	\$46,823,8	06	
2.	Contributions during year	\$ 3,846,2		
3.	Disbursements during year (expenses & benefits)			
4.	Expected appreciation for period	\$ 2,326,4		
5.	Expected actuarial value of assets current year	\$ 3 <u>,557,3</u>	<u>/0</u>	
	1. + 2 3. + 4.	951 001 1	<i>c</i> 1	
6.	Actual actuarial value of assets current year	\$51,901,1		
7.	Approximate gain / (loss): 6 5.	\$52,511,2		
		\$ 610,1	10	
<u>A</u> p	proximate Portion of Plan Year			
	in / (Loss) Due to Liabilities: A B.	\$ (575,14	42)	
	•	Ψ (2/2,1	70)	

В.

C.



Table VIII (continued two)

D. Review of Cumulative Actuarial Gains / (Losses) for Determination of 13th Checks to Retirees for the 2014/2015 Plan Year

Plan Year	Actuarial Gains / (Losses)
2004 / 2005	\$ (1,323,287)
2005 / 2006	(1,289,042)
2006 / 2007	374,572
2007 / 2008	(35,607)
2008 / 2009	(2,228,287)
2009 / 2010	(887,495)
2010 / 2011	(2,335,636)
2011 / 2012	(1,285,896)
2012 / 2013	(640,982)
2013 / 2014	368,363
2014 / 2015	34,968
Cumulative Total Gains / (Losses)	\$ (9,248,329)

Requirements for 13th Check to members Retired on or after 10/1/2004:

- There must be a net actuarial gain during the most recent plan year based on the experience of the plan from all sources
- There must be an investment gain during the most recent plan year
- There must be cumulative net actuarial gains from inception (requirement by the State)
- 13th check payable to Tier One members only



Table IX

<u>CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM</u>

<u>Amortization of Unfunded Liability</u>

Date	Total Unfunded Liability	Amortization Payment
10/01/2015	\$ 14,492,346	\$ 1,287,765
10/01/2016	\$ 14,194,925	\$ 1,287,765
10/01/2017	\$ 13,875,197	\$ 1,287,765
10/01/2018	\$ 13,531,489	\$ 1,287,765
10/01/2045	\$ 0	\$ 0



Table X

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Accounting Disclosure Exhibit

I.	Num	ber of Plan Participants	<u>10/01/2014</u> <u>10/01/2015</u>			
	2. T t 3. I 4. A 5. T	Retirees, disabled and beneficiaries receiving benefits Ferminated plan participants entitled to but not yet receiving benefits DROP participants Active plan participants Fotal	25 11 2 107 145	33 10 10 10 91 144		
П.	as of	ncial Accounting Standards Board Allocations October 1, 2015				
	2 3	plan benefits Total actuarial present value of accumulated plan benefits	\$ 15,429,272 2,253,473 1,620,218 33,583,892 \$ 52,886,855 679,526 \$ 53,566,381	\$ 20,981,006 11,056,074 807,374 25,522,395 \$ 58,366,849 813,081 \$ 59,179,930		
	B. <u>S</u> 1 2	plan benefits as of October 1, 2014 Increase (decrease) during year attributable to: a. Plan amendment b. Actuarial assumptions and method changes c. Benefits paid and contribution refunds d. Other, including benefits accumulated and increase for interest due to decrease in the discount period e. Net increase	\$ 53,566, \$ (2,171, \frac{7,785,}{\$ 5,613,} \$ 59,179,	0 0 918) <u>467</u> 549		



Table X (continued two)

C. Significant Matters Affecting Calculations

1.	Assumed rate of return used in determining	
	actuarial present values	7.50%
2.	Plan amendments	None.
3.	Change in actuarial assumptions	None.



Table X (continued three)

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

6	UAAL as % of	Payroll	(4) / (6)	(12.9%)	(%0.6)	9.2%	5.1%	24.6%	22.7%	44.8%	56.3%	82.1%	%9.99	70.0%	86.2%	91.2%	146.8%	158.6%	149.5%	152.4%	170.9%
(4) Unfunded	(9)	Annual Covered	Payroll	3,106	3,870	3,851	3,561	4,212	4,998	5,256	6,519	7,099	8,103	7,678	8,751	9,149	8,819	8,844	9,671	9,712	8,480
	(5)	7	(2)/(3)	138.9%	121.5% \$	\$8.0%	94.6%	\$ %0.62	81.5% \$	73.3% \$	70.2% \$	67.2% \$	75.2% \$	78.6%	75.4% \$	76.5% \$	69.5% \$	71.2% \$	73.7% \$	\$ %0.92	78.4% \$
	Actuarial Accrued	Liability (UAAL)	(3) - (2)	\$ (402)	\$ (350)	\$ 354	\$ 182	\$ 1,035	\$ 1,136	\$ 2,354	\$ 3,670	\$ 5,827	\$ 5,399	\$ 5,377	\$ 7,546	\$ 8,346	\$ 12,943	\$ 14,025	\$ 14,456	\$ 14,802	\$ 14,492
	·	Actuarial Accrued	Liability (AAL)	\$ 1,033	\$ 1,628	\$ 2,959	\$ 3,343	\$ 4,934	\$ 6,124	\$ 8,816	\$ 12,331	\$ 17,767	\$ 21,747	\$ 25,153	\$ 30,634	\$ 35,483	\$ 42,473	\$ 48,670	\$ 55,039	\$ 61,626	\$ 67,003
	(2)	Actuarial Value	of Assets (AVA)	\$ 1,435	\$ 1,978	\$ 2,605	\$ 3,161	\$ 3,899	\$ 4,990	\$ 6,462	\$ 8,661	\$ 11,940	\$ 16,348					\$ 34,645	\$ 40,583	\$ 46,824	\$ 52,511
		(E)	Valuation Date	October 1, 1998	October 1, 1999	October 1, 2000	October 1, 2001	October 1, 2002	October 1, 2003	October 1, 2004	October 1, 2005	October 1, 2006	October 1, 2007	October 1, 2008	October 1, 2009	October 1, 2010	October 1, 2011	October 1, 2012	October 1, 2013	October 1, 2014	October 1, 2015

D

Note: Dollar amounts in thousands

Table X (continued four)

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

Plan Year	Annual Required Contribution ¹	Percentage Contributed
(1)	(2)	(3)
1997	\$ 295,719	100%
1998	304,195	100%
1999	392,661	100%
2000	492,397	100%
2001	458,942	100%
2002	636,674	100%
2003	847,764	100%
2004	1,151,914	100%
2005	1,415,977	100%
2006	1,782,115	100%
2007	2,095,909	100%
2008	2,076,113	100%
2009	2,320,278	100%
2010	2,306,698	100%
2011	2,629,422	100%
2012	2,769,493	100%
2013	2,872,191	100%
2014	2,831,755	100%

V. 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, 2015
Actuarial cost method	Entry Age Normal Level Percent
Amortization method	Layered amortization
Remaining amortization period	20 - 30 years
Asset valuation method	See Table XII., Item 8.
Actuarial assumptions:	
Investment rate of return*	7.50%
Projected salary increases*	5.50%
Cost-of-living adjustments	Variable 13 th check, only if plan
	has cumulative net actuarial gain

^{*} Includes inflation at 3.00%



¹ Sum of City and State contributions, determined by the prior plan year's actuarial valuation.

Table X (continued five)

Accounting Disclosure Exhibit

VI. Revenues by Source and Expenses by Type

	Revenues by Source								
Plan	Employee City		State	Investment					
<u>Year</u>	Contributions	<u>Contributions</u>	Contributions	Income	Total				
2015	\$ 1,014,541	\$ 2,466,585	\$ 365,170	\$ 411,693	\$ 4,257,989				
2014	\$ 1,071,357	\$ 2,515,627	\$ 356,564	\$ 3,969,647	\$ 7,913,195				
2013	\$ 1,050,427	\$ 2,459,161	\$ 310,332	\$ 5,587,659	\$ 9,407,579				
2012	\$ 1,727,565	\$ 2,346,518	\$ 303,327	\$ 4,735,524	\$ 9,112,934				
2011	\$ 1,151,187	\$ 2,047,326	\$ 285,072	\$ (1,049,572)	\$ 2,434,013				
2010 2009	\$ 1,216,237 \$ 1,016,638	\$ 1,987,812 \$ 1,725,705	\$ 332,466	\$ 2,402,257	\$ 5,938,772				
2008		,,	\$ 350,408	\$ 426,617	\$ 3,519,368				
		\$ 1,797,721	\$ 298,188	\$ (2,110,118)	\$ 895,207				
2007	\$ 912,303	\$ 1,514,281	\$ 267,834	\$ 2,018,977	\$ 4,713,395				
2006	\$ 870,556	\$ 1,166,132	\$ 249,845	\$ 736,959	\$ 3,460,091				

-		Expenses by Type		
Plan	Benefits &			
<u>Year</u>	DROP Payments	Expenses	Refunds	Total
2015	\$ 2,054,191	\$ 297,412	\$ 43,562	\$ 2,395,165
2014	\$ 1,299,498		\$ 73,108	\$ 1,636,457
2013	\$ 1,048,524		\$ 2,113	\$ 1,289,406
2012	\$ 856,954		\$ 181,798	\$ 1,279,651
2011	\$ 563,461		\$ 148,865	\$ 930,191
2010	\$ 337,823	\$ 196,024	\$ 84,274	\$ 618,121
2009	\$ 252,181		\$ 79,944	\$ 510,269
2008	\$ 146,620		\$ 80,045	\$ 385,811
2007	\$ 124,873		\$ 37,824	\$ 308,462
2006	\$ 124,873	, , ,	\$ 74,324	\$ 321,653

Contributions were made in accordance with actuarially determined contribution requirements.



Table XI

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Outline of Principal Provisions of the Plan

1. Effective Date

July 25, 1994. The latest amendment reflected is Ordinance 14R-09-152.

2. Eligibility Requirements

Participation is mandatory for all full-time police officers employed by the City with the exception of the Police Chief. Members hired by the City on or after March 23, 2009 are classified as Tier Two members. All other members are Tier One members

3. Credited Service

Service of a member from employment date through termination date measured in years and completed months. A member may buy back up to a total of five (5) years of prior military and sworn police service by paying the full actuarial cost of the increase service. Service purchased does not count for vesting or retirement eligibility.

4. Earnable Compensation

<u>Tier One members</u>: base pay, longevity pay, educational incentive pay, assignment pay and up to 300 hours of overtime pay per year, as well as payouts for accrued holiday/incentive, vacation and/or sick time earned prior to September 30, 2013 based on the member's rate of pay as of September 30, 2015.

<u>Tier Two members</u>: base pay, longevity pay, educational incentive pay, assignment pay and up to 300 hours of overtime pay per year.

5. Final Monthly Compensation (FMC)

Final Monthly Compensation is the average monthly rate of earnable compensation during the five (5) best years out of the last ten (10) years of employment.

6. Employee Contributions

10.0% of earnable compensation.

7. Normal Retirement Date

<u>Tier One members</u>: the first of the month coincident with or next following the earlier of (i) completion of 20 years of Credited Service or (ii) the attainment of age 55 with completion of five (5) years of Credited Service.

<u>Tier Two members</u>: the first of the month coincident with or next following the earlier of (i) completion of 25 years of Credited Service or (ii) the attainment of age 55 with completion of 10 years of Credited Service.

D

Table XI (continued two)

8. Amount of Normal Retirement Income

<u>Tier One members</u>: monthly retirement income is equal to 3.0% times FMC for Credited Service through September 30, 2001 plus 3.5% times FMC for Credited Service thereafter, payable under the normal form of payment under the plan. For members employed by the City as of April 25, 2011, monthly retirement income for years of Credited Service prior to October 1, 2001 is 3.5% times FMC. The maximum accrual is 100% of FMC.

<u>Tier Two members</u>: monthly retirement income is equal to 3.0% times FMC for all years of Credited Service, payable under the normal form of payment under the plan. The maximum accrual is 75% of FMC. However, members are allowed to purchase an increase in their multiplier up to 3.5% per year (from 3.0%) by paying the full actuarial costs. Any enhanced multiplier benefit purchased will not be subject to the 75% of FMC maximum, but the maximum accruals for members with such purchases will not exceed 100% of FMC.

9. Early Retirement Date

The attainment of age 50 and completion of 10 years of Credited Service.

10. Amount of Early Retirement Income

Benefit accrued to Early Retirement Date payable at Normal Retirement Date, with a 3.0% per year reduction for benefit commencement prior to Normal Retirement Date.

11. Delayed Retirement Date

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

12. Amount of Delayed Retirement Income

The benefit accrued on Delayed Retirement Date.

13. Benefits on Termination of Service

In the event of termination of service prior to Normal Retirement Date or Early Retirement Date, for reasons other than death, early retirement or disability, a monthly benefit will be payable commencing on Normal Retirement Date, equal to the benefit accrued up to the date of termination, or the refund of accumulated employee contributions made, if the terminated member has completed:

Tier One members: five (5) or more years of Credited Service

Tier Two members: seven (7) or more years of Credited Service

Otherwise, the member is entitled only to the refund of accumulated employee contributions made.

D

Table XI (continued three)

14. 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 42% of such member's FMC at the time of disability or the member's accrued benefit under the plan.

In order to be eligible for non-service disability benefits, a member must have completed at least ten (10) years of Credited Service at the date of disability. The non-service disability benefit is equal to the greatest of: i) 2.0% of FMC times years of Credited Service; ii) 25.0% of FMC, and iii) accrued benefit at date of disability.

15. Death Benefits

For deaths prior to completion of five (5) years of Credited Service, the benefit would be the refund of the accumulated employee contributions. With the completion of five (5) or more years of Credited Service the death benefit payable would be the benefit otherwise payable at Early Retirement Date or Normal Retirement Date to the member.

16. Normal Form of Retirement Income

The normal form of payment is a ten year certain and life annuity.

17. 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.

18. Deferred Retirement Option Plan (DROP)

The DROP is available only if the member makes an irrevocable election to participate upon the eligibility of Normal or Early Retirement. The DROP has a five (5) year maximum participation period. Depending on when a member enters the DROP and the election that is made, the DROP account will be credited with the annual assumed investment return per year, or the actual rate of return, net of investment fees. There is a guarantee that upon exiting the DROP, a member's account will not be less than the sum of the monthly payments into the DROP account. 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.



Table XI (continued four)

19. Variable Thirteenth Check

For Tier One members retiring on or after October 1, 2004, 13th checks may be paid based on annual investment and actuarial gains, but only if the plan has cumulative net actuarial gain beginning with the 2004/2005 plan year. The amount of the 13th checks shall be computed as a uniform percentage of the current monthly benefits of the applicable retirees, with the actual amounts limited to the current monthly benefits and prorated for those retired less than a year.

Tier Two members will not be eligible for the variable thirteenth checks.

20. Post Retirement Supplement

A supplemental payment of \$10 per month per year of Credited Service for all members employed by the City on or after April 25, 2011, provided that such members have at least 20 years of Credited Service with the City or provided such members left the City at age 55 or older with more than five (5) years of Credited Service with the City. The supplement shall commence on the fifth anniversary date of termination of service and shall cease upon the member reaching 65 years of age.

21. Changes from Most Recent Valuation

None.



Table XII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Actuarial Assumptions and Actuarial Cost Methods

1. Mortality:

The RP-2000 Mortality Table with generational projection rates.

2. Interest to be Earned by Fund:

7.50%, compounded annually, net of investment expenses.

3. Allowances for Administrative Expenses:

Actual administrative expenses paid during the prior plan year.

4. Employee Withdrawal Rates:

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

Age	Withdrawal Rates Per 100 Employees
20	6.0
25	5.7
30	5.0
35	3.8
40	2.6
45	1.6
50	0.5
55 & over	0.0

5. Retirement Age Assumption:

<u>Tier One members</u>: the earlier of the completion of 20 years of Credited Service or the attainment of age 55 with completion of five (5) years of Credited Service.

<u>Tier Two members</u>: the earlier of the completion of 25 years of Credited Service or the attainment of age 55 with completion of 10 years of Credited Service.

D

Table XII (continued two)

6. Salary Increase Factors:

Current salaries are assumed to increase at a rate of 5.5% per year until retirement. In addition, accumulated sick and vacation leaves cash outs are added to the final pay.

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

Disability incidence rates were used in accordance with a table per the following illustrative example:

Age	Disability Rates Per100 Employees
20	0.03
25	0.03
30	0.04
35	0.05
40	0.07
45	0.10
50	0.18
55	0.36
60	0.90
65 & over	0.00

75% of disabilities assumed to be service incurred, 25% assumed to be non-service incurred.

8. Asset Valuation Method:

The actuarial value of assets is determined by smoothing the differences between actual investment earnings and assumed investment return over four (4) years. The resulting value would then be limited to between 80% and 120% of market value.

D

Table XII (continued three)

9. 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.

The amortization bases would be funded by the excess of actual contributions over prior year's normal cost, adjusted with interest. For each existing base, the funding is done proportionally, determined based on the individual base's required amortization payment as a percentage of the overall total required total amortization payment for the prior year. New bases are then added to the total outstanding unfunded actuarial accrued liability as new layers.

10. Marriage Assumptions:

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

11. <u>Inflation Assumption:</u>

3.0% per year.

12. Changes from Last Actuarial Valuation:

None.



Table XIII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Distribution of Active Participants by Age and Service Groups as of October 1, 2015

Years of Credited Service

Total	1 13 19 20 20 20 11 6 0		
30 & Over			
25 - 29			
20 - 24		10/01/2015	38.6 years \$93,185 6.6%
15 - 19		10/01/2014	38.9 years \$90,766 5.6%
10 - 14		<u> 10/0</u>	38.
5-9	1 4 4 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7		Average Attained Age Average Covered Pay Percent Female
0 - 4	9		Averag Averag Percent
Age	Under 25 25 - 29 30 - 34 35 - 39 40 - 44 45 - 49 50 - 54 55 - 59 60 - 64 65 & Over TOTAL		



Table XIV

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Reconciliation of Participant Data

A. Active Participants 1. Active participants previous year 107 2. Retired during year (7)3. Entered DROP during year (7) 4. Died during year 0 5. Disabled during year 0 6. Terminated vested during year (1)7. Terminated non-vested during period (3)8. New active participants 2 9 Rehired / Reinstated 0 10. Active participants current year 91 B. Participants Receiving Benefits 1. Participants receiving benefits previous year 25 2. New retired participants 3. New terminated vested receiving benefits 0 4. New disabled receiving benefits 0 5. New beneficiaries receiving benefits 0 6. DROP participants exited and retired 0 7. Died or ceased payment during year 0 8. Retired or terminated vested receiving benefits current year 33 C. Terminated Participants Entitled to Future Benefits 1. Terminated participants entitled to future benefits previous year 11 2. Died during year 0 3. Commenced receiving benefits during year (2)4. Rehired / Reinstated during year 0 5. New terminated participants 6. Terminated participants entitled to future benefits current year 10 D. DROP Participants 1. DROP participants previous year 2 2. New entrants during year 9 3. Died during year 0 4. Exited and retired during year (1)5. DROP participants current year



10

Table XV

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

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

A. Entitled to Deferred Benefits

Current Age Group	Count	Total Annual <u>Benefit</u>	Average Annual Benefit
Less than 40	5	\$ 134,579	\$ 26,916
40 - 44	2	19,452	\$ 26,916 9,726
45 - 49	3	42,825	14,275
50 - 54	0	0	0
55 - 59	0	0	0
60 - 64	0	0	Ō
65 & over	_0	0	0
TOTAL	10	\$ 196,856	\$ 19,686

B. Receiving Benefits & DROP Participants

Current Age Group	Count	Total Annual Benefit	Average Annual Benefit
Less than 40	0	Φ 0	•
	U	\$ 0	\$ 0
40 44	2	156,391	78,196
45 – 49	12	•	•
	_	996,803	83,067
50 - 54	11	816,152	74,196
55 - 59	6		•
		330,551	55,092
60 - 64	5	202,500	40,500
65 & over	7	137,193	
	_/ _		<u> 19,599</u>
TOTAL	43	\$ 2,639,590	\$ 61.386



Table XVI

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

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	
Year Ended	Market Value	Actuarial Value	Assumed
09/30/2015	1.2%	8.8%	7.50%
09/30/2014	9.2%	9.1%	7.75%
09/30/2013	16.1%	9.1%	7.75%
09/30/2012	17.4%	6.1%	7.75%
09/30/2011	(4.4%)	0.9%	8.00%
Last 3 Yrs.	8.7%	9.0%	7.67%
Last 5 Yrs.	7.6%	6.8%	7.75%

B. Recent Salary Increase and Turnover Experience

_	Salary I		
Year Ended	Actual	Assumed	Ratio of Actual Turnover to Expected
09/30/2015	3.2%	5.5%	1.12
09/30/2014	5.2%	6.0%	2.17
09/30/2013	(6.9%)	6.0%	0.30
09/30/2012	26.6%	6.0%	1.51
09/30/2011	0.3%	7.0%	0.70
Last 3 Yrs.	0.4%	5.8%	1.20
Last 5 Yrs.	5.1%	6.1%	1.16



Table XVII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

State Required Exhibit

		-	10/01/2014		10/01/2015
A.	Participant Data				
	1. Active participants		107		91
	2. Retired participants and		101		71
	beneficiaries receiving benefits		22		30
	3. DROP participants		2		10
	4. Disabled participants receiving				
	benefits		3		3
	5. Terminated vested participants		11		10
	6. Total participants		145		144
	7. Annual payroll of active	_			
	participants 8. Annual benefits payable to those	\$	9,712,011	\$	8,479,879
	currently receiving benefits	•	1 295 121	•	1 500 (
	9. Annual benefits payable to	\$	1,285,131	\$	1,733,657
	terminated vested participants	\$	202 107	ው	106 856
	10. Annual benefits payable to DROP	Ф	283,107	\$	196,856
	participants	\$	188,030	\$	905,933
В.	Value of Assets				
	1. Actuarial value	\$	46,823,896	\$	52,511,277
	2. Market value	\$	48,641,964	\$	
C.	Liabilities				
С.	Actuarial present value of future				
	expected benefit payments for				
	active members				
	a. Age retirement benefits	\$	52 922 917	ď	44.057.004
	b. Vesting benefits	Φ	53,833,817 2,598,661	Þ	44,856,004
	c. Death benefits		192,364		2,495,139 182,493
	d. Disability benefits		334,013		324,641
	e. Total	\$	56,958,855	\$	47,858,277
		*		•	11,050,277
	2. Actuarial present value of future				
	expected benefit payments				
	terminated vested members	\$	1,620,218	\$	807,374
	3. Actuarial present value of future				
	expected benefit payments for those				
	receiving benefits				
	a. Service retired	\$	14,579,326	\$	20,147,132
	b. DROP participants	Ψ	2,253,473	φ	11,056,074
	c. Disability retired		638,403		626,183
	d. Beneficiaries		211,543		207,691
	e. Total	\$	17,682,745	\$	32,037,080
		-	, ,	*	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,



Table XVII (continued two)

	4. Total action 1		10/01/2014		10/01/2015
	 Total actuarial present value of future expected benefit payments 	\$	76,261,818	\$	80,702,731
	5. Actuarial accrued liabilities	\$	61,625,752	\$	67,003,623
	 Unfunded actuarial accrued liabilities (see footnote 1/ for separation) 	\$	14,801,856	\$	14,492,346
D.	Statement of Accumulated Plan Benefits		·		,,- ,-
	Actuarial present value of accumulated vested plan benefits a. Participants currently				
	receiving benefits b. DROP participants	\$	15,429,272	\$	20,981,006
	c. Participants due deferred benefits		2,253,473 1,620,218		11,056,074
	d. Other participants		33,583,892		807,374 25,522,395
	e. Total	\$_	52,886,855	\$	
	Actuarial present value of	•	22,000,000	Ψ	36,300,649
	accumulated non-vested plan benefits 3. Total actuarial present value of	_	<u>679,526</u>	_	813,081
	accumulated plan benefits	\$	53,566,381	\$	59,179,930
E.	Statement of Change in Accumulated Plan Benefits				
	1. Actuarial present value of accumulated plan				
	benefits as of October 1, 2014			\$	53,566,381
	 Increase (decrease) during year attributable to: a. Plan amendment 			\$	0
	 b. Actuarial assumptions and methods changes 	,		Ψ	0
	 Benefits paid and contribution refunds 				(2,171,918)
	d. Other, including benefits				(,,,
	accumulated and increase for				
	interest due to decrease in the discount period				
	e. Net increase (decrease)				7,785,467
	- The mereuse (decidate)			\$	5,613,549
	3. Actuarial present value of accumulated plan				
	benefits as of October 1, 2015			\$	59,179,930



Table XVII (continued three)

F.	Pension Cost	_	10/01/2014		10/01/2015
	 Total normal cost including expenses Expected member contribution Item 2. as percentage of payroll Net employer normal cost Payment required to amortize 	\$ - - \$	2,405,483 971,201 10.0% 1,434,282	\$ \$	2,181,190 847,988 10.0% 1,333,202
	unfunded liability 6. Total employer required contribution		1,290,305	_	1,287,765
	(including interest) 7. Item 6. as a percentage of payroll 8. Estimated State contributions 9. Item 8. as a percentage of payroll 10. Net amount payable by City 11. Item 10. as a percentage of payroll	\$ \$ \$	2,831,595 29.2% 356,564 3.7% 2,475,031 25.5%	\$ \$ \$	2,723,906 32.1% 365,170 4.3% 2,358,736 27.8%
G.	Past Contributions				_,,,,,
	 Total contribution required Actual contributions made: Employees City State Total 	\$	3,802,796 1,014,541 2,466,585 365,170 3,846,296	\$	3,571,894 N/A N/A N/A N/A
H.	Net Actuarial Gain / (Loss)	\$	368,363	\$	34,968
I.	Disclosure of Following Items: 1. Actuarial present value of future salaries - attained age	•	(5.004.104		
	Actuarial present value of future employee contributions -	\$	65,034,194	\$	58,987,186
	attained age 3. Actuarial present value of future	\$	6,503,419	\$	5,898,719
	contributions from other sources 4. Amount of active members'		N/A		N/A
	accumulated contributions 5. Actuarial present value of future	\$	7,569,623	\$	6,631,029
	salaries and future benefits at entry age 6. Actuarial present value of future		Not prov	ided	by software
	employee contributions at entry age		Not prov	ided	by software



Table XVII (continued four)

1/ Unfunded Actuarial Accrued Liabilities

Description and Amount of Original Liability	Remaining Amortization Period	Unamortized Amount as of Valuation Date	Amortization Payment	
10/01/1999 New Method	14 years	\$ (250,916)	\$ (27,495)	
10/01/2000 Actuarial Loss	15 years	294,207	31,005	
10/01/2000 Plan Amendment	15 years	230,834	24,326	
10/01/2001 Actuarial (Gain)	16 years	(127,798)	(13,005)	
10/01/2002 Actuarial (Gain)	17 years	(300,514)	(29,632)	
10/01/2002 Plan Amendment	17 years	856,313	84,436	
10/01/2002 Plan Amendment	17 years	143,914	14,191	
10/01/2003 Actuarial Loss	18 years	81,102	7,773	
10/01/2004 Actuarial Loss	19 years	154,339	14,416	
10/01/2004 Plan Amendment	19 years	901,300	84,186	
10/01/2005 Actuarial Loss	20 years	1,150,615	104,992	
10/01/2006 Actuarial Loss	21 years	1,142,041	102,018	
10/01/2006 Assumption Change	21 years	796,636	71,163	
10/01/2007 Actuarial (Gain)	22 years	(337,723)	(29,590)	
10/01/2008 Actuarial Loss	23 years	32,629	2,809	
10/01/2009 Actuarial Loss	24 years	2,071,370	175,440	
10/01/2010 Actuarial Loss	25 years	836,194	69,782	
10/01/2011 Actuarial Loss	26 years	2,235,193	184,013	
10/01/2011 Plan Amendment	16 years	1,247,551	126,950	
10/01/2011 Assumptions Change	21 years	936,279	83,637	
10/01/2012 Actuarial Loss	27 years	1,247,289	101,410	
10/01/2013 Actuarial Loss	28 years	628,576	50,523	
10/01/2014 Actuarial Gain	29 years	(364,854)	(29,018)	
10/01/2014 Plan Amendment	19 years	(677,414)	(63,274)	
10/01/2014 Assumptions Change	19 years	1,600,151	149,463	
10/01/2015 Actuarial Gain	30 years	(34,968)	(2,754)	
TOTAL		<u>\$ 14,492,346</u>	<u>\$ 1,287,765</u>	



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.

Dand Dy Lang for	Panrong Lrao
Donald A. DuLaney, Jr. A. A., E.A.	Panrong Xiao, E.A., M.A.A.A.
Senior Consulting Actuary	Enrolled Actuary
7/8/2016	7/8/2016
Date	Date
14-04191	14-07551
Enrollment Number	Enrollment Number

