# CITY OF FORT LAUDERDALE POLICE AND FIREFIGHTERS' RETIREMENT SYSTEM

# SECTION 112.664, <u>FLORIDA STATUTES</u> COMPLIANCE

With respect to the reporting standards for defined benefit retirement plans or systems contained in Section 112.664(1), F.S., the actuarial disclosures required under this section were 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, meet the requirements of Section 112.664(1), Florida Statutes, and Rule 60T-1.0035, Florida Administrative Code.

By:

Date: 5/26/2016

Bradley R/Heinrichs, FSA, EA, MAAA

Enrolled Actuary #14-6901



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When reviewing the following schedules, please note the following:

- 1) The purpose of producing this report is solely to satisfy the requirements set forth by Section 112.664, <u>Florida Statutes</u>, and is mandatory for every Florida public pension fund, excluding the Florida Retirement System (FRS).
- 2) None of the schedules shown have any impact on the funding requirements of the Plan. These schedules are for statutory compliance purposes only.
- 3) In the schedules that follow, the columns labeled "ACTUAL" represent the final recorded GASB 67/68 results. The columns labeled "HYPOTHETICAL" illustrate what the results would have been if different assumptions were used.
- 4) It is our opinion that the Plan's actual assumptions utilized in the October 1, 2015 Actuarial Valuation Report, as adopted by the Board of Trustees, are reasonable individually and in the aggregate, and represent our best estimate of future Plan experience.
- 5) The "Number of Years Expected Benefit Payments Sustained" calculated in Section II: Asset Sustainability should <u>not</u> be interpreted as the number of years the Plan has left until it is insolvent. This calculation is required by 112.664, <u>Florida Statutes</u>, but the numeric result is irrelevant, since in its calculation we are to assume there will be no further contributions to the Fund. As long as the Actuarially Determined Contribution is made each year the Plan will never become insolvent.

	ACTUAL			HYPOTHETICAL						
		7.50% RP-2000 Static 9/30/2015		7.50% RP-2000 Generational 9/30/2015	-2000 RP-2000 rational Generational			9.50% RP-2000 Generational 9/30/2015		
GASB 67: Schedule of Changes in	Net	Pension Liabi	<u>lity</u>							
Total Pension Liability										
Service Cost		18,531,300		18,884,929		29,131,179		12,716,516		
Interest		60,367,031		61,285,726		56,466,579		63,951,986		
Share Plan Allocation		1,826,197		1,826,197		1,826,197		1,826,197		
Changes of Benefit Terms		1,097,988		1,120,024		1,599,462		801,339		
Differences Between Expected and Actual										
Experience		(7,319,054)		(7,526,394)		(7,367,162)		(7,830,995)		
Changes of Assumptions		(2,194,981)		(2,272,870)		(3,917,142)		(1,394,961)		
Contributions - Buy Back		43,865		43,865		43,865		43,865		
Contributions - Transfer from General Plan Benefit Payments, Including Refunds of		26,692		26,692		26,692		26,692		
Employee Contributions		(46,660,430)		(46,660,430)		(46,660,430)		(46,660,430)		
Net Change in Total Pension Liability		25,718,608		26,727,739		31,149,240		23,480,209		
Total Pension Liability - Beginning		808,594,678		820,468,279		1,019,264,639		682,991,155		
Total Pension Liability - Ending (a)	\$	834,313,286	\$	847,196,018	\$	1,050,413,879	\$	706,471,364		
Plan Fiduciary Net Position		4 7 700 04 6		15 500 016		4.5.500.046		4.7.700.046		
Contributions - Employer		15,599,916		15,599,916		15,599,916		15,599,916		
Contributions - State		5,799,228		5,799,228		5,799,228		5,799,228		
Contributions - Employee		5,584,263		5,584,263		5,584,263		5,584,263		
Contributions - Buy Back		43,865		43,865		43,865		43,865		
Contributions - Transfer from General Plan		26,692		26,692		26,692		26,692		
Net Investment Income Benefit Payments, Including Refunds of		5,969,880		5,969,880		5,969,880		5,969,880		
Employee Contributions		(46,660,430)		(46,660,430)		(46,660,430)		(46,660,430)		
Administrative Expenses		(692,348)		(692,348)		(692,348)		(692,348)		
Net Change in Plan Fiduciary Net Position		(14,328,934)		(14,328,934)		(14,328,934)		(14,328,934)		
Plan Fiduciary Net Position - Beginning		788,878,402		788,878,402		788,878,402		788,878,402		
Plan Fiduciary Net Position - Ending (b)	\$	774,549,468	\$	774,549,468	\$	774,549,468	\$	774,549,468		
Net Pension Liability - Ending (a) - (b)	\$	59,763,818	\$	72,646,550	\$	275,864,411	\$	(68,078,104)		
GASB 68: Pension Expense for Fiscal Year Ending September 30, 2015										
Dansian Evnanca	Φ	07 110 070	Φ.	20.247.202	Φ.	46.416.700	•	10 101 551		
Pension Expense	\$	27,110,078	\$	28,347,393	\$	46,416,588	\$	12,181,551		

 $Table\ 1$  Plan Assumptions: 7.50% and RP-2000 Static Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2015	745,838,688	-	73,132,532	-	53,195,432	725,901,588
2016	725,901,588	-	50,414,827	-	52,552,063	728,038,824
2017	728,038,824	-	51,824,710	-	52,659,485	728,873,599
2017	728,873,599	-	53,068,704	-	52,675,444	728,480,339
2019	728,480,339	-	54,849,357	-	52,579,175	726,210,157
2019	726,210,157	-	56,684,617	-	52,340,089	721,865,629
2020	720,210,137	-	58,057,030	-	51,962,784	715,771,383
2021	721,803,029	-	59,222,545	-	51,462,008	708,010,846
2023	708,010,846	_	60,068,308	_	50,848,252	698,790,790
2023	698,790,790	_	60,480,150	_	50,141,304	688,451,944
2025	688,451,944	_	60,863,275	_	49,351,523	676,940,192
2026	676,940,192	-	61,273,183	-	48,472,770	664,139,779
2027	664,139,779	-	61,506,807	-	47,503,978	650,136,950
2028	650,136,950	_	61,715,670	_	46,445,934	634,867,214
2029	634,867,214	-	61,786,749	-	45,298,038	618,378,503
2030	618,378,503	-	61,565,632	-	44,069,677	600,882,548
2030	600,882,548	-	61,047,634	-	42,776,905	
2031	582,611,819	-	60,363,038	-	41,432,273	582,611,819 563,681,054
2032	563,681,054	-	59,476,617	-	40,045,706	544,250,143
2034	544,250,143	-	58,436,484	-	38,627,393	524,441,052
2034	524,441,052	-	57,279,070	-	37,185,114	504,347,096
2036	504,347,096	-	56,002,789	-	35,725,928	484,070,235
2037		-		-		
2037	484,070,235	-	54,648,336	-	34,255,955	463,677,854
2038	463,677,854	-	53,209,543	-	32,780,481	443,248,792
2040	443,248,792	-	51,720,148	-	31,304,154	422,832,798
	422,832,798	-	50,198,108	-	29,830,031	402,464,721
2041 2042	402,464,721	-	48,627,709	-	28,361,315	382,198,327
2042	382,198,327	-	47,020,603	-	26,901,602	362,079,326
2043	362,079,326	-	45,385,047	-	25,454,010	342,148,289
2044	342,148,289	-	43,721,558 42,032,310	-	24,021,563 22,607,410	322,448,294 303,023,394
2046	322,448,294 303,023,394	-	40,324,481	-	21,214,587	283,913,500
2047	283,913,500	-	38,600,099	-	19,846,009	265,159,410
2047	265,159,410	-	36,865,018	-	18,504,518	246,798,910
2049	246,798,910	-	35,123,645	-	17,192,782	228,868,047
2050	228,868,047	_	33,380,992	_	15,913,316	211,400,371
2051	211,400,371	-	31,642,785	-	14,668,423	194,426,009
2052	194,426,009	_	29,914,450	- -	13,460,159	177,971,718
2053	177,971,718	_	28,201,055	_	12,290,339	162,061,002
2054	162,061,002	_	26,507,274	_	11,160,552	146,714,280
2055	146,714,280	_	24,837,830	_	10,072,152	131,948,602
2056	131,948,602	-	23,197,212	-	9,026,250	117,777,640
2057	117,777,640	_	21,589,912	_	8,023,701	104,211,429
2058	104,211,429	-		-		91,255,933
2059	91,255,933	-	20,020,581 18,494,113	-	7,065,085 6,150,666	78,912,486
2060	78,912,486	-	17,016,036	-	5,280,335	67,176,785
2061	67,176,785	-	15,591,606	-	4,453,574	56,038,753
2062	56,038,753	-	14,226,225	-	3,669,423	45,481,951
2062	· ·	-	12,924,960	-	· · ·	45,481,951 35,483,451
2064	45,481,951 35,483,451	-	11,691,822	-	2,926,460 2,222,816	26,014,445
2064	26,014,445	-	10,530,225	-	1,556,200	17,040,420
		-		-		
2066	17,040,420	-	9,442,773	-	923,928	8,521,575

 $Table\ 1$  Plan Assumptions: 7.50% and RP-2000 Static Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2067	8,521,575	-	8,430,630	-	322,970	413,915
2068	413,915	-	7,493,965	-	-	-

<sup>\*</sup>All DROP Balances paid in 2015.

Number of Years Expected Benefit Payments Sustained: 53.06

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 7.50% interest.

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### PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

 $\label{thm:continuous} Table~2$  Hypothetical Assumptions: 7.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2015	745,838,688	-	73,136,428	-	53,195,286	725,897,546
2016	725,897,546	-	50,431,066	-	52,551,151	728,017,631
2017	728,017,631	-	51,858,243	-	52,656,638	728,816,026
2018	728,816,026	-	53,124,921	-	52,669,017	728,360,122
2019	728,360,122	-	54,934,231	-	52,566,975	725,992,866
2020	725,992,866	-	56,804,627	-	52,319,291	721,507,530
2021	721,507,530	-	58,218,812	-	51,929,859	715,218,577
2022	715,218,577	-	59,433,141	-	51,412,650	707,198,086
2023	707,198,086	-	60,335,507	-	50,777,275	697,639,854
2024	697,639,854	-	60,810,948	-	50,042,579	686,871,485
2025	686,871,485	-	61,264,984	-	49,217,924	674,824,425
2026	674,824,425	-	61,753,353	-	48,296,081	661,367,153
2027	661,367,153	-	62,072,831	-	47,274,805	646,569,127
2028	646,569,127	-	62,375,636	-	46,153,598	630,347,089
2029	630,347,089	-	62,548,500	-	44,930,463	612,729,052
2030	612,729,052	-	62,436,126	-	43,613,324	593,906,250
2031	593,906,250	-	62,033,792	-	42,216,702	574,089,160
2032	574,089,160	-	61,471,439	-	40,751,508	553,369,229
2033	553,369,229	-	60,712,743	-	39,225,964	531,882,450
2034	531,882,450	-	59,805,279	-	37,648,486	509,725,657
2035	509,725,657	-	58,785,050	-	36,024,985	486,965,592
2036	486,965,592	-	57,649,481	-	34,360,564	463,676,675
2037	463,676,675	-	56,438,193	-	32,659,318	439,897,800
2038	439,897,800	-	55,144,113	-	30,924,431	415,678,118
2039	415,678,118	-	53,800,079	-	29,158,356	391,036,395
2040	391,036,395	-	52,423,690	-	27,361,841	365,974,546
2041	365,974,546	-	50,998,783	-	25,535,637	340,511,400
2042	340,511,400	-	49,536,166	-	23,680,749	314,655,983
2043	314,655,983	-	48,043,339	-	21,797,574	288,410,218
2044	288,410,218	-	46,519,291	-	19,886,293	261,777,220
2045	261,777,220	-	44,965,358	-	17,947,091	234,758,953
2046	234,758,953	-	43,387,401	-	15,979,894	207,351,446
2047	207,351,446	-	41,784,212	-	13,984,451	179,551,685
2048	179,551,685	-	40,160,076	-	11,960,374	151,351,983
2049	151,351,983	-	38,518,854	-	9,906,942	122,740,071
2050	122,740,071	-	36,864,313	-	7,823,094	93,698,852
2051	93,698,852	-	35,201,419	-	5,707,361	64,204,794
2052	64,204,794	-	33,535,404	-	3,557,782	34,227,172
2053	34,227,172	-	31,871,287	-	1,371,865	3,727,750
2054	3,727,750	-	30,212,657	-	, , , , , , , , , , , , , , , , , , ,	-

<sup>\*</sup>All DROP Balances paid in 2015.

Number of Years Expected Benefit Payments Sustained: 39.12

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 7.50% interest.

 $Table\ 3$  Hypothetical Assumptions: 5.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2015	745,838,688	-	73,136,428	-	39,009,876	711,712,136
2016	711,712,136	-	50,431,066	-	37,757,313	699,038,383
2017	699,038,383	-	51,858,243	-	37,021,009	684,201,149
2018	684,201,149	-	53,124,921	-	36,170,128	667,246,356
2019	667,246,356	-	54,934,231	-	35,187,858	647,499,983
2020	647,499,983	-	56,804,627	-	34,050,372	624,745,728
2021	624,745,728	-	58,218,812	-	32,759,998	599,286,914
2022	599,286,914	-	59,433,141	-	31,326,369	571,180,142
2023	571,180,142	-	60,335,507	-	29,755,681	540,600,316
2024	540,600,316	-	60,810,948	-	28,060,716	507,850,084
2025	507,850,084	-	61,264,984	-	26,246,968	472,832,068
2026	472,832,068	-	61,753,353	-	24,307,547	435,386,262
2027	435,386,262	-	62,072,831	-	22,239,242	395,552,673
2028	395,552,673	-	62,375,636	-	20,040,067	353,217,104
2029	353,217,104	-	62,548,500	-	17,706,857	308,375,461
2030	308,375,461	_	62,436,126	-	15,243,657	261,182,992
2031	261,182,992	-	62,033,792	-	12,659,135	211,808,335
2032	211,808,335	-	61,471,439	-	9,958,994	160,295,890
2033	160,295,890	-	60,712,743	-	7,146,674	106,729,821
2034	106,729,821	-	59,805,279	-	4,225,495	51,150,037
2035	51,150,037	-	58,785,050	-	- -	-

<sup>\*</sup>All DROP Balances paid in 2015.

Number of Years Expected Benefit Payments Sustained: 20.87

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 5.50% interest.

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## PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

 $Table\ 4$  Hypothetical Assumptions: 9.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2015	745,838,688	_	73,136,428	-	67,380,695	740,082,955
2016	740,082,955	_	50,431,066	_	67,912,405	757,564,294
2017	757,564,294	_	51,858,243	_	69,505,341	775,211,392
2018	775,211,392	_	53,124,921	_	71,121,648	793,208,119
2019	793,208,119	_	54,934,231	_	72,745,395	811,019,283
2020	811,019,283	_	56,804,627	_	74,348,612	828,563,268
2021	828,563,268	_	58,218,812	_	75,948,117	846,292,573
2022	846,292,573	_	59,433,141	_	77,574,720	864,434,152
2023	864,434,152	_	60,335,507	_	79,255,308	883,353,953
2024	883,353,953	_	60,810,948	_	81,030,106	903,573,111
2025	903,573,111	_	61,264,984	_	82,929,359	925,237,486
2026	925,237,486	_	61,753,353	_	84,964,277	948,448,410
2027	948,448,410	_	62,072,831	_	87,154,139	973,529,718
2028	973,529,718	_	62,375,636	_	89,522,481	1,000,676,563
2029	1,000,676,563	_	62,548,500	_	92,093,220	1,030,221,283
2030	1,030,221,283	_	62,436,126	_	94,905,306	1,062,690,463
2031	1,062,690,463	_	62,033,792	_	98,008,989	1,098,665,660
2032	1,098,665,660	_	61,471,439	_	101,453,344	1,138,647,565
2033	1,138,647,565	_	60,712,743	_	105,287,663	1,183,222,485
2034	1,183,222,485	_	59,805,279	_	109,565,385	1,232,982,591
2035	1,232,982,591	_	58,785,050	_	114,341,056	1,288,538,597
2036	1,288,538,597	_	57,649,481	_	119,672,816	1,350,561,932
2037	1,350,561,932	_	56,438,193	_	125,622,569	1,419,746,308
2038	1,419,746,308	_	55,144,113	_	132,256,554	1,496,858,749
2039	1,496,858,749	_	53,800,079	_	139,646,077	1,582,704,747
2040	1,582,704,747	_	52,423,690	_	147,866,826	1,678,147,883
2041	1,678,147,883	_	50,998,783	_	157,001,607	1,784,150,707
2042	1,784,150,707	_	49,536,166	_	167,141,349	1,901,755,890
2043	1,901,755,890	_	48,043,339	_	178,384,751	2,032,097,302
2044	2,032,097,302	_	46,519,291	_	190,839,577	2,176,417,588
2045	2,176,417,588	_	44,965,358	_	204,623,816	2,336,076,046
2046	2,336,076,046	_	43,387,401	_	219,866,323	2,512,554,968
2047	2,512,554,968	_	41,784,212	_	236,707,972	2,707,478,728
2048	2,707,478,728	_	40,160,076	_	255,302,876	2,922,621,528
2049	2,922,621,528	_	38,518,854	_	275,819,400	3,159,922,074
2050	3,159,922,074	_	36,864,313	_	298,441,542	3,421,499,303
2051	3,421,499,303	_	35,201,419	_	323,370,366	3,709,668,250
2052	3,709,668,250	_	33,535,404	_	350,825,552	4,026,958,398
2053	4,026,958,398	_	31,871,287	_	381,047,162	4,376,134,273
2054	4,376,134,273	_	30,212,657	_	414,297,655	4,760,219,271
2055	4,760,219,271	_	28,563,721	_	450,864,054	5,182,519,604
2056	5,182,519,604	_	26,927,831	_	491,060,290	5,646,652,063
2057	5,646,652,063	_	25,308,222	_	535,229,805	6,156,573,646
2058	6,156,573,646	_	23,708,258	_	583,748,354	6,716,613,742
2059	6,716,613,742	_	22,131,670	_	637,027,051	7,331,509,123
2060	7,331,509,123	_	20,584,164	- -	695,515,619	8,006,440,578
2061	8,006,440,578	_	19,070,402	- -	759,706,011	8,747,076,187
2062	8,747,076,187	_	17,597,228	_	830,136,369	9,559,615,328
2063	9,559,615,328	_	16,171,951	- -	907,395,288	10,450,838,665
2064	10,450,838,665	_	14,799,445	_	992,126,700	11,428,165,920
2065	11,428,165,920	_	13,485,861	-	1,085,035,184	12,499,715,243
2066	12,499,715,243	_	12,237,573	_	1,186,891,663	13,674,369,333
2000	14,477,/13,443	-	14,437,373	-	1,100,071,003	13,074,309,333

 $Table\ 4$  Hypothetical Assumptions: 9.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2067	13,674,369,333	_	11,057,965		1,298,539,833	14,961,851,201
2068	14,961,851,201	_	9,950,293	_	1,420,903,225	16,372,804,133
2069	16,372,804,133	_	8,915,884	_	1,554,992,888	17,918,881,137
2070	17,918,881,137	_	7,954,614	_	1,701,915,864	19,612,842,387
2071	19,612,842,387	_	7,066,576	_	1,862,884,364	21,468,660,175
2072	21,468,660,175	_	6,249,659	_	2,039,225,858	23,501,636,374
2072	23,501,636,374		5,500,857	_	2,232,394,165	25,728,529,682
2074	25,728,529,682	_	4,818,337	_	2,443,981,449	28,167,692,794
2075	28,167,692,794		4,199,104	_	2,675,731,358	30,839,225,048
2076	30,839,225,048	_	3,640,455	- -	2,929,553,458	33,765,138,051
2077	33,765,138,051	_	3,139,447	- -	3,207,538,991	36,969,537,595
2078	36,969,537,595	-	2,692,829	-	3,511,978,162	40,478,822,928
2079	40,478,822,928	-	2,297,798	-	3,845,379,033	44,321,904,163
2079	44,321,904,163	-	1,950,813	-	4,210,488,232	48,530,441,582
2081	48,530,441,582	-	1,647,866	-	4,610,313,677	53,139,107,393
2081	53,139,107,393	-	1,385,978	-	5,048,149,368	58,185,870,783
2082	58,185,870,783	-	1,363,978	-	5,527,602,547	63,712,311,709
2084	63,712,311,709	-	970,390	-	6,052,623,519	69,763,964,838
2084	69,763,964,838	-	808,133	-	6,627,538,273	76,390,694,978
2086	76,390,694,978	-	671,721	-		
2086		-	557,288	-	7,257,084,116	83,647,107,373 91,592,998,814
2087	83,647,107,373 91,592,998,814	-	461,498	-	7,946,448,729 8,701,312,966	100,293,850,282
2088		-	381,745	-	9,527,897,644	109,821,366,181
2089	100,293,850,282	-		=		
2090	109,821,366,181	-	315,380	-	10,433,014,807	120,254,065,608
2091	120,254,065,608	-	259,960 213,750	-	11,424,123,885	131,677,929,533
2092	131,677,929,533	-	175,349	-	12,509,393,153	144,187,108,936
2093 2094	144,187,108,936	-	175,349	-	13,697,767,020	157,884,700,607
2094	157,884,700,607 172,883,596,776	-	117,065	-	14,999,039,738	172,883,596,776
2096		-	94,966	-	16,423,936,133	189,307,415,844
2096	189,307,415,844 207,291,520,872	-	76,947	-	17,984,199,994 19,692,690,828	207,291,520,872 226,984,134,753
2097	226,984,134,753	-	62,096	-	21,563,489,852	248,547,562,509
2098	248,547,562,509	-	49,715	-	23,612,016,077	272,159,528,871
2100	272,159,528,871	-	39,690	-	25,855,153,357	298,014,642,538
2100	298,014,642,538	-	31,605	-	28,311,389,540	326,326,000,473
2101	326,326,000,473	-	25,022	-	31,000,968,856	357,326,944,307
2102	357,326,944,307	-	19,722	-	33,946,058,772	391,272,983,357
2103	391,272,983,357	-	15,482	- -	37,170,932,684	428,443,900,559
2104	428,443,900,559	-	12,074	-	40,702,169,980	469,146,058,465
2106		-	9,388	-	44,568,875,108	
2107	469,146,058,465 513,714,924,185	-	7,263	-	48,802,917,453	513,714,924,185
2107		-	5,577	-		562,517,834,375
	562,517,834,375	-		-	53,439,194,001	615,957,022,799
2109 2110	615,957,022,799	-	4,232 3,199	-	58,515,916,965 64,074,928,724	674,472,935,532
	674,472,935,532	-		-		738,547,861,057
2111	738,547,861,057 808,709,905,333	-	2,410	-	70,162,046,686 76,827,440,922	808,709,905,333 885,537,344,464
2112		-	1,791	-	, , ,	
2113	885,537,344,464	-	1,301	=	84,126,047,662	969,663,390,825
2114	969,663,390,825	-	935	-	92,118,022,084	1,061,781,411,974
2115	1,061,781,411,974	-	663	-	100,869,234,106	1,162,650,645,417
2116	1,162,650,645,417	-	463	-	110,451,811,293	1,273,102,456,247
2117	1,273,102,456,247	-	319	-	120,944,733,328	1,394,047,189,256
2118	1,394,047,189,256	-	215	-	132,434,482,969	1,526,481,672,010

 $Table\ 4$  Hypothetical Assumptions: 9.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2119	1,526,481,672,010	-	142	-	145,015,758,834	1,671,497,430,702
2120	1,671,497,430,702	-	92	-	158,792,255,912	1,830,289,686,522
2121	1,830,289,686,522	-	59	-	173,877,520,217	2,004,167,206,680
2122	2,004,167,206,680	-	37	-	190,395,884,633	2,194,563,091,276
2123	2,194,563,091,276	-	23	-	208,483,493,670	2,403,046,584,923
2124	2,403,046,584,923	-	14	-	228,289,425,567	2,631,336,010,476
2125	2,631,336,010,476	-	8	-	249,976,920,995	2,881,312,931,463
2126	2,881,312,931,463	-	5	-	273,724,728,489	3,155,037,659,947
2127	3,155,037,659,947	-	3	-	299,728,577,695	3,454,766,237,639
2128	3,454,766,237,639	-	2	-	328,202,792,576	3,782,969,030,213
2129	3,782,969,030,213	-	1	-	359,382,057,870	4,142,351,088,082
2130	4,142,351,088,082	-	1	-	393,523,353,368	4,535,874,441,449
2131	4,535,874,441,449	-	-	-	430,908,071,938	4,966,782,513,387

<sup>\*</sup>All DROP Balances paid in 2015.

Number of Years Expected Benefit Payments Sustained: 999.99

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 9.50% interest.

# ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR ENDING SEPTEMBER 30, 2017

Valuation Date: 10/1/2015

	ACTUAL	HYPOTHETICAL				
	7.50% RP-2000 Static	7.50% RP-2000 Generational	5.50% RP-2000 Generational	9.50% RP-2000 Generational		
Total Required Contribution (Fixed \$)	\$27,333,630	\$28,587,467	\$50,214,014	\$13,583,137		
Total Required Contribution (% of Payroll)	39.0%	40.8%	71.7%	19.4%		
Expected Member Contribution	6,068,423	6,068,423	6,068,423	6,068,423		
Expected State Money	3,939,814	3,939,814	3,939,814	3,939,814		
Expected Sponsor Contribution (Fixed \$)	\$17,325,393	\$18,579,230	\$40,205,777	\$3,574,900		
Expected Sponsor Contribution (% of Payroll)	24.7%	26.5%	57.4%	5.1%		
ASSETS						
Actuarial Value Market Value	745,838,688 745,838,688	745,838,688 745,838,688	745,838,688 745,838,688	745,838,688 745,838,688		
<u>LIABILITIES</u>						
Present Value of Benefits						
Active Members						
Retirement Benefits	407,357,095	415,306,836	619,407,611	293,263,135		
Disability Benefits	7,970,653	8,440,686	11,340,105	6,529,423		
Death Benefits	4,729,500	4,193,951	5,839,867	3,152,112		
Vested Benefits	12,153,652	12,416,889	20,286,857	8,003,454		
Refund of Contributions	755,846	755,883	792,182	723,155		
Service Retirees	376,698,851	382,855,506	461,350,628	326,143,562		
DROP Retirees	108,943,907	110,095,670	131,670,389	95,355,927		
Beneficiaries	30,414,884	30,861,026	35,729,592	27,164,599		
Disability Retirees	12,578,976	12,872,278 4,059,917	15,783,483 5,539,615	10,829,782 3,112,071		
Terminated Vested Total:	4,006,400 965,609,764	981,858,642	1,307,740,329	774,277,220		
Present Value of Future Salaries	606,922,313	607,357,880	679,139,248	548,693,516		
Total Normal Cost	19,124,293	19,496,451	30,249,763	12,985,791		
Present Value of Future	460 657 701	1610=2:00	207.022.200	00.770.07		
Normal Costs (Entry Age Normal)	160,637,204	164,073,430	285,032,309	98,529,935		
Total Actuarial Accrued Liability	804,972,560	817,785,212	1,022,708,020	675,747,285		
Unfunded Actuarial Accrued Liability (UAAL)	59,133,872	71,946,524	276,869,332	(70,091,403)		

# ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR ENDING SEPTEMBER 30, 2017

Valuation Date: 10/1/2015

	ACTUAL			
	7.50% RP-2000 Static	7.50% RP-2000 Generational	5.50% RP-2000 Generational	9.50% RP-2000 Generational
PENSION COST				
Normal Cost <sup>1</sup>	20,004,010	20,393,288	31,641,252	13,583,137
Administrative Expenses <sup>1</sup>	681,992	681,992	681,992	681,992
Payment Required To Amortize UAAL 1	6,647,628	7,512,187	17,890,770	(3,211,989)
Total Required Contribution	\$27,333,630	\$28,587,467	\$50,214,014	\$13,583,137 <sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Contribution requirements above have been adjusted to account for an applicable assumed salary increase component.

<sup>&</sup>lt;sup>2</sup> Per <u>Florida Statutes</u>, the Minimum Required Contribution may be no less than the Normal Cost.