September 25, 2015

Actuarial Valuation Report: The City of Newport, Rhode Island Fire Pension System as of July 1, 2015





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This report presents the results of our actuarial valuation of the City of Newport, Rhode Island Fire Pension System (the Plan) as of July 1, 2015.

The valuation includes a general discussion and comments on the various schedules included in the report. These schedules summarize the underlying calculations, asset information, participant data, plan benefits and actuarial assumptions, and should be considered an integral part of the valuation.

Purpose

The main purposes of this report are to provide to the City of Newport (the City):

- The pension contribution under the City's funding policy for the 2016-2017 plan year;
- The financial condition of the Plan; and
- Information relating to the disclosure and reporting requirements of Statements No. 25, and No. 27 of the Governmental Accounting Standards Board.

Certification

To the best of our knowledge, this report is complete and accurate and all costs and liabilities have been determined in conformance with generally accepted actuarial principles and on the basis of actuarial assumptions and methods which are reasonable (taking into account past experience under the Plan and reasonable expectations) and which in combination represent our best estimate of anticipated experience under the Plan.

The actuaries certifying to this valuation are members of the Society of Actuaries or other professional actuarial organizations, and meet the General Qualification Standards of the American Academy of Actuaries for purposes of issuing Prescribed Statements of Actuarial Opinion.

Respectfully submitted,

HAY GROUP, INC.

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Comments on the Valuation

This is Hay Group's fourth valuation of the Plan. This report includes results for prior years based on methods and assumptions developed by the prior actuary.

Plan Contribution

The Valuation Highlights exhibit shows the development of the Plan's contribution for the 2016-2017 fiscal year, developed in accordance with the City's funding policy. The total contribution is \$5,708,437. This total cost has increased from \$5,436,487, which was developed for the 2015-2016 fiscal year. The main reason for the increase was the asset loss for the year.

If the City wishes to pay the contribution on a monthly basis, beginning on July 31, the monthly payment would be \$460,094.

Funding Policy

The funding requirement is the sum of two components, an annual normal cost and an amortization payment which will change from year to year in response to evolving plan experience. It is our understanding that beginning with the July 1, 2002 valuation, the amortization period was reduced from 30 to 29 years, and that for each year the amortization period decreases by one year. Thus, the amortization period for the July 1, 2015 valuation is 16 years. The normal cost and amortization is then offset by anticipated employee contributions to the Plan, to arrive at the net City contribution.

Plan Assets

Schedule A contains information about the Plan's assets. The market value of the Plan's assets as of June 30, 2015 is \$47,436,350. The overall rate of return achieved for the 2014-2015 plan year was 4.7 percent.

The asset information used for the valuation was provided by the City. We have not audited such information, but have checked it for reasonableness and consistency.

Funding Status

Schedule B provides the information on pension plans required by Statement Number 25 of the Governmental Accounting Standards Board.

Schedule C provides the information on pension plans required by Statement Number 27 of the Governmental Accounting Standards Board.

Schedule D discloses estimated City contributions and Plan benefits over the next twenty years. This open group projection suggests that the Plan will emerge from "critical status" (i.e., have a funding ratio of greater than 60%) by the year 2022, if the actuarial assumptions are reflective of the actual experience.

Participant Data

Schedule E provides a distribution of the active participants as of July 1, 2015 by age and length of service. It also shows the average salary by age and service brackets. Schedule E also includes a breakdown of the inactive participants, by age and benefit amounts.

Although we have made tests to check for the reasonableness and consistency of the participant data, we have not audited the data but have relied on it as submitted by the City.

Actuarial Assumptions and Methods

Schedule F summarizes the actuarial assumptions and cost methods used for the valuation. There were no changes in actuarial assumptions or cost methods since the prior valuation.

Plan Provisions

Schedule G contains a summary of the principal provisions of the plan in effect as of July 1, 2015.

Valuation Highlights

				July 1, 2014		July 1, 2015	
А.		mbership Data					
	1.	Active Members					
		a. Number		87		94	
		b. Expected covered payroll for fiscal year					
		beginning on the valuation date	\$ \$	5,505,579		6,205,276	
		c. Average pay	\$	63,283		66,014	
		d. Average age		42.7		42.5	
	_	e. Average service		14.0		14.0	
	2.	Retired members and beneficiaries					
		a. Number		123		121	
		b. Aggregate annual pension	\$	5,769,716		5,759,455	
		c. Average annual pension	\$	46,908		47,599	
	_	d. Average age		68.5		69.6	
	3.	Deferred vested members					
		a. Number		1		1	
		b. Aggregate annual pension	\$	18,456		18,456	
		c. Average annual pension	\$	18,456		18,456	
		d. Average age		55.0		56.0	
B.	Bas	ic Valuation Results					
	1.	Normal cost ¹	\$	1,288,336	(23.4%)	1,459,460	(23.5%)
	2.	Actuarial accrued liability					
		a. Active members	\$	22,320,829		25,699,943	
		b. Retirees and beneficiaries		72,972,998		72,196,464	
		c. Deferred vested	_	224,333		242,009	
		d. Total	\$	95,518,160		98,138,416	
	3.	Valuation assets	\$	44,307,114		47,436,350	
	4.	Unfunded actuarial accrued liability	\$	51,211,046		50,702,066	
			_	July 1, 2015 to June 30, 2016		July 1, 2016 to June 30, 2017	
C.		velopment of Contribution					
	1.	Contribution for fiscal year of valuation					
		a. Normal cost with interest	\$	1,423,048		1,612,065	
		b. Amortization of unfunded actuarial accrued					
		liability		$4,541,315^2$		4,691,334 ³	
		c. Anticipated employee contributions with					
		interest		(527,876)		(594,963)	
		d. City contribution assumed deposited June 30	\$	5,436,487		5,708,437	
	2.	Monthly City contribution beginning July 31	\$	438,175		460,094	

¹ Percentages in parentheses represent amounts as percentages of covered payroll.

² Amortized over 17 years from the valuation date, as a level percentage of payroll, assuming long-term salary increases of 3.2% on average.

³ Amortized over 16 years from the valuation date, as a level percentage of payroll, assuming long-term salary increases of 3.2% on average.

Schedule A: Analysis of Plan Assets

A.1. Schedule of Receipts and Disbursements			
(1) Market Value at July 1, 2014			\$44,307,114
(2) Receipts			
a. City Contributions	\$	6,048,094	
b. Member Contributions		607,260	
c. Net Investment Income		2,267,746	
d. Total Receipts	\$	8,923,100	
(3) Disbursements			
a. Benefit Payments	\$	5,793,864	
b. Total Disbursements	\$	5,793,864	
 (4) Market Value at June 30, 2015 [(1) + (2) - (3)] A. 2. Trust Investment Yield for 12 Months Ending June 30, 	2015		\$47,436,350
1. Asset Market Value at July 1, 2014			\$44,307,114
2. City Contributions during the year (paid 7/1/14)			6,048,094
3. Member Contributions and Benefits paid during the year			(5,186,604)
4. Asset Market Value at June 30, 2015			47,436,350
5. Investment Increment			2,267,746
6. Approximate Average Asset Market Value $(1) + (2) + [(3) / 2]$			47,761,906
7. Approximate Yield Rate (5) / (6)			4.7%

Schedule B: GASB 25 Disclosure Information

B.1 Actuarial Accounting Date

Date Used to Compute Benefit and Asset Values — July 1, 2015

B.2. Method and Assumptions

All methods and assumptions used for Plan accounting are summarized in Schedule F.

B.3. Statement of Plan Net Assets

1.	Assets	
	a) Cash and Short Term Investments	\$1,861,355
	b) Receivables	0
	c) Investments at Fair Value	
	(1) Fixed Income	8,058,044
	(2) Domestic Equities	28,882,184
	(3) Foreign Equities	5,620,073
	(4) Alternative Investments	3,048,057
	d) Total Assets	\$47,469,713
2.	Liabilities	
	a) Payables for Investments Purchased and Other Payables	33,363
3.	Net Assets Held in Trust for Pension Benefits	\$47,436,350

Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability (AAL)	Unfunded AAL	Funded Ratio	Covered Payroll	UAAL as % of Covered Payroll
6/30/02	15,992,660	57,208,592	(41,215,932)	27.95%	4,639,918	(888.29%)
6/30/03	17,726,942	61,509,869	(43,782,927)	28.82%	4,763,438	(919.15%)
6/30/04	21,427,871	64,260,714	(42,832,843)	33.35%	4,957,989	(863.92%)
6/30/05	24,426,065	66,806,255	(42,380,190)	36.56%	4,922,941	(860.87%)
6/30/06	27,413,402	68,671,042	(41,257,640)	39.92%	4,827,849	(854.58%)
6/30/07	31,256,401	72,036,981	(40,780,580)	43.39%	5,224,518	(780.56%)
6/30/08	29,605,715	74,885,370	(45,279,655)	39.53%	4,967,895	(911.45%)
6/30/09	27,980,459	78,870,565	(50,890,106	35.48%	4,910,434	(1036.37%)
6/30/10	30,820,663	82,030,956	(51,210,293)	37.57%	4,996,160	(1024.99%)
6/30/11	32,832,334	82,907,130	(50,074,796)	39.60%	4,891,283	(1023.76%)
6/30/12	32,552,813	93,772,470	(61,219,657)	34.71%	5,532,707	(1106.50%)
6/30/13	36,727,924	93,822,904	(57,094,980)	39.15%	5,509,307	(1036.34%)
6/30/14	44,307,114	95,518,160	(51,211,046)	46.39%	5,505,579	(930.17%)
6/30/15	47,436,350	98,138,416	(50,702,066)	48.34%	6,205,276	(817.08%)

B.4. Schedule of Funding Progress

B.5. Schedule of Employer Contributions

Actuarial Valuation Date	Annual Required Contribution	Actual Contribution	Percentage Contributed
7/1/92	2,059,946	1,384,427	67.21%
7/1/93	2,225,668	1,551,116	69.69%
7/1/94	2,576,363	1,736,686	67.41%
7/1/95	2,709,621	1,990,018	73.44%
7/1/96	2,919,663	2,760,163	94.54%
7/1/97	3,065,646	3,032,805	98.93%
7/1/98	2,961,385	3,189,318	107.70%
7/1/99	3,003,673	3,860,777	128.54%
7/1/00	3,281,802	3,567,527	108.71%
7/1/01	3,106,881	3,977,470	128.02%
7/1/02	3,285,527	4,062,000	123.63%
7/1/03	3,317,767	3,317,767	100.00%
7/1/04	4,118,543	5,118,543	124.28%
7/1/05	3,543,234	3,543,235	100.00%
7/1/06	3,352,662	5,543,234	165.34%
7/1/07	3,291,226	3,291,234	100.00%
7/1/08	3,310,557	3,491,226	105.46%
7/1/09	3,781,258	3,981,258	105.29%
7/1/10	4,359,109	4,359,109	100.00%
7/1/11	4,560,741	4,560,741	100.00%
7/1/12	4,822,711	4,822,711	100.00%
7/1/13	5,990,094	5,990,094	100.00%
7/1/14	5,778,428	6,048,094	104.67%

Schedule C: GASB 27 Disclosure Information

Development of the Net Pension Obligation (Asset)

Fiscal Year Endin g	Val. Interes t Rate	Amort . Years	Amort Factor	NPO at Beginnin g of Year	Annual Required Contributio n	Interes t on NPO	Adjustmen t to NPO	Annual Pension Cost	Actual Contributio n	Increas e in NPO	NPO at End of Year
6/30/93	8.00%	30	22.7490	3,582,745	2,059,946	286,620	(157,490)	2,189,07 6	1,384,427	804,649	4,387,39 4
6/30/94	8.00%	30	22.7490	4,387,394	2,225,668	350,992	(192,861)	2,383,79 9	1,551,116	832,683	5,220,07 7
6/30/95	8.25%	30	18.4393	5,220,077	2,576,363	430,656	(283,095)	2,723,92 5	1,736,686	987,239	6,207,31 6
6/30/96	8.25%	30	18.4393	6,207,316	2,709,621	512,103	(336,635)	2,885,09 0	1,990,018	895,072	7,102,38 8
6/30/97	8.25%	30	18.4393	7,102,388	2,919,663	585,947	(385,177)	3,120,43 4	2,760,163	360,271	7,462,65 9
6/30/98	8.25%	30	18.4393	7,462,659	3,065,646	615,669	(404,715)	3,276,60 1	3,032,805	243,796	7,706,45 5
6/30/99	8.25%	30	18.4393	7,706,455	2,961,385	635,783	(417,936)	3,179,23 1	3,189,318	(10,087)	7,696,36 8
6/30/00	8.25%	30	18.4393	7,696,368	3,003,673	634,950	(417,389)	3,221,23 4	3,860,777	(639,543)	7,056,82 5
6/30/01	8.25%	30	20.1557	7,056,825	3,281,802	582,188	(350,116)	3,513,87 4	3,567,527	(53,653)	7,003,17 2
6/30/02	8.25%	30	20.1557	7,003,172	3,106,881	577,762	(347,454)	3,337,18 9	3,977,470	(640,281)	6,362,89 1
6/30/03	8.25%	30	20.1557	6,362,891	3,285,527	524,939	(315,687)	3,494,77 9	4,062,000	(567,221)	5,795,67 0
6/30/04	8.25%	29	15.7354	5,795,670	3,317,767	478,143	(368,320)	3,427,59 0	3,317,767	109,823	5,905,49 3
6/30/05	8.25%	28	15.4540	5,905,493	4,118,543	487,203	(382,134)	4,223,61 2	5,118,543	(894,931)	5,010,56 2
6/30/06	8.25%	27	15.0842	5,010,562	3,543,234	413,371	(332,173)	3,624,43 2	3,543,235	81,197	5,091,75 9
6/30/07	8.25%	26	14.7817	5,091,759	3,352,662	420,070	(344,464)	3,428,26 8	5,543,234	(114,966)	4,976,79 3
6/30/08	8.25%	25	14.4659	4,976,793	3,291,226	410,585	(344,036)	3,357,77 5	3,291,234	66,541	5,043,33 4
6/30/09	8.25%	24	14.1363	5,043,334	3,310,557	416,075	(356,765)	3,369,86 7	3,491,226	(121,359)	4,921,97 5
6/30/10	8.25%	23	13.7923	4,921,975	3,781,258	406,063	(356,864)	3,830,45 7	3,981,258	(150,801)	4,771,17 4
6/30/11	7.50%	22	13.7826	4,771,174	4,359,109	357,838	(346,174)	4,370,77 3	4,359,109	11,664	4,782,83 8
6/30/12	7.50%	21	13.3879	4,782,838	4,560,741	358,713	(357,251)	4,562,20 3	4,560,741	1,462	4,784,30 0
6/30/13	7.50%	20	12.6151	4,784,300	4,822,711	358,823	(379,252)	4,802,28 2	4,822,711	(20,429)	4,763,87 1
6/30/14	7.50%	19	12.2251	4,763,871	5,990,094	357,290	(389,680)	5,957,70 4	5,990,094	(32,390)	4,731,48 1
6/30/15	7.50%	18	11.8170	4,731,481	5,778,428	354,861	(400,396)	5,732,89 3	6,048,094	(315,201)	4,416,28 0

Note: Amortization factors used for periods prior to FY 2001 did not reflect future longevity or promotion pay increases.

Schedule D: Forecast of Plan Contributions and Benefit Payments

The following table discloses the estimated City contributions and benefits to be paid from the Plan over the next twenty years, under the current set of actuarial assumptions, except that this projection assumes that new entrants will enter the Plan each year. Underlying this so-called "open group" projection is the assumption that the current number of active members will remain constant throughout the projection period.

FY Ending 6/30	Normal Cost	Amortization of Unfunded AL	Estimated Employee Contributions	Annual Required Contribution	Benefit Payments	Funded %
2017	1,612,065	4,691,334	594,963	5,708,437	5,856,681	48.3%
2018	1,618,568	4,819,080	599,690	5,837,958	6,017,719	50.8%
2019	1,632,799	4,949,124	606,840	5,975,082	6,226,104	53.3%
2020	1,625,871	5,081,353	607,304	6,099,920	6,549,368	55.8%
2021	1,608,483	5,215,442	606,325	6,217,600	6,770,231	58.4%
2022	1,609,278	5,351,143	609,441	6,350,980	7,020,929	61.1%
2023	1,604,278	5,487,923	610,991	6,481,210	7,254,248	63.9%
2024	1,597,898	5,625,075	611,695	6,611,278	7,442,293	66.8%
2025	1,611,736	5,761,842	620,625	6,752,952	7,777,045	69.9%
2026	1,623,185	5,896,397	628,098	6,891,484	8,137,463	73.1%
2027	1,607,620	6,025,315	626,321	7,006,615	8,360,366	76.4%
2028	1,629,025	5,540,377	637,127	6,532,276	8,727,696	79.9%
2029	1,611,346	6,431,924	635,915	7,407,354	8,955,688	83.1%
2030	1,619,777	6,516,403	642,983	7,493,198	9,249,424	87.1%
2031	1,631,291	6,543,498	651,180	7,523,608	9,544,212	91.3%
2032	1,628,804	6,393,309	654,703	7,367,411	9,731,104	95.7%
2033	1,659,974	-	669,512	990,462	10,083,130	100.2%
2034	1,650,916	-	672,573	978,343	10,362,184	100.3%
2035	1,638,541	-	674,066	964,475	10,612,206	100.5%
2036	1,637,583	-	679,472	958,111	10,789,222	100.6%
2037	1,676,916	-	698,681	978,235	10,873,150	100.7%

Schedule E: Profiles of Population

ACTIVES MALE (TOTAL) Age Group 0-4 5-9 10-14 15-19 20-24 25-29 Total 30+ 0-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65 +TOTAL: AVG AVG 42.53 14.03 AGE DUR

E.1. Number of Active Participants by Age and Duration

Note: No female actives

	RETIRED										
	MA	LE	Fema	LE		TOTAL					
Age Group	Number	Annual Pension	Number	Annual Pension	Number	Annual Pension					
35-39	0	0	0	0	0	0					
40-44	0	0	0	0	0	0					
45-49	1	38,793	0	0	1	38,793					
50- 54	2	107,294	0	0	2	107,294					
55- 59	12	661,911	0	0	12	661,911					
60- 64	17	1,026,425	0	0	17	1,026,425					
65-69	25	1,447,569	0	0	25	1,447,569					
70- 74	19	954,703	0	0	19	954,703					
75-79	4	225,737	0	0	4	225,737					
80-84	5	272,657	0	0	5	272,657					
85-89	3	159,422	0	0	3	159,422					
90-94	1	34,187	0	0	1	34,187					
95-99	0	0	0	0	0	0					
100-104	0	0	0	0	0	0					
105-109	0	0	0	0	0	0					
110-114	0	0	0	0	0	0					
115-119	0	0	0	0	0	0					
120+	0	0	0	0	0	0					
TOTAL	89	4,928,698	0	0	89	4,928,698					
	AVG AGE:	67.4	AVG AGE:	0	AVG AGE:	67.4					
	AVG PENSION:	55,379	AVG PENSION:	0	AVG PENSION :	55,379					

E.2. Number of Inactive Participants by Age and Annual Pension

	DISABLED									
	MA	LE	FEMAL	Æ		TOTAL				
Age Group	Number	Annual Pension	Number	Annual Pension	Number	Annual Pension				
20-24	0	0	0	0	0	0				
25-29	0	0	0	0	0	0				
30-34	0	0	0	0	0	0				
35-39	0	0	0	0	0	0				
40-44	0	0	0	0	0	0				
45-49	1	43,927	0	0	1	43,927				
50-54	1	42,759	0	0	1	42,759				
55- 59	0	0	0	0	0	0				
60- 64	1	44,549	0	0	1	44,549				
65-69	1	57,445	0	0	1	57,445				
70- 74	2	54,938	0	0	2	54,938				
75-79	0	0	0	0	0	0				
80-84	0	0	0	0	0	0				
85-89	0	0	0	0	0	0				
90-94	0	0	0	0	0	0				
95-99	0	0	0	0	0	0				
100-104	0	0	0	0	0	0				
105-109	0	0	0	0	0	0				
110-114	0	0	0	0	0	0				
115-119	0	0	0	0	0	0				
120+	0	0	0	0	0	0				
TOTAL	6	243,618	0	0	6	243,618				
	AVG AGE:	62.7	AVG AGE:	0	AVG AGE:	62.7				
	AVG PENSION:	40,603	AVG PENSION:	0	AVG PENSION :	40,603				

	BENEFICIARY									
	MA	LE	Femai	Æ		TOTAL				
Age Group	Number	Annual Pension	Number	Annual Pension	Number	Annual Pension				
20-24	0	0	0	0	0	0				
25-29	0	0	0	0	0	0				
30-34	0	0	0	0	0	0				
35-39	0	0	0	0	0	0				
40-44	0	0	0	0	0	0				
45-49	0	0	1	30,424	1	30,424				
50- 54	0	0	0	0	0	0				
55- 59	0	0	0	0	0	0				
60- 64	0	0	2	36,654	2	36,654				
65-69	0	0	4	91,961	4	91,961				
70- 74	0	0	3	67,109	3	67,109				
75-79	0	0	0	0	0	0				
80-84	0	0	4	88,239	4	88,239				
85-89	0	0	8	185,890	8	185,890				
90-94	0	0	3	70,444	3	70,444				
95-99	0	0	1	16,418	1	16,418				
100-104	0	0	0	0	0	0				
105-109	0	0	0	0	0	0				
110-114	0	0	0	0	0	0				
115-119	0	0	0	0	0	0				
120+	0	0	0	0	0	0				
TOTAL	0	0	26	587,139	26	587,139				
	AVG AGE:	0	AVG AGE:	79.2	AVG AGE:	79.2				
	AVG PENSION:	0	AVG PENSION:	22,582	AVG PENSION :	22,582				

	VESTED TERM									
	MA	LE	FEMAI	Æ		TOTAL				
Age Group	Number	Annual Pension	Number	Annual Pension	Number	Annual Pension				
20-24	0	0	0	0	0	0				
25-29	0	0	0	0	0	0				
30-34	0	0	0	0	0	0				
35-39	0	0	0	0	0	0				
40-44	0	0	0	0	0	0				
45-49	0	0	0	0	0	0				
50- 54	0	0	0	0	0	0				
55- 59	0	0	1	18,456	1	18,456				
60- 64	0	0	0	0	0	0				
65-69	0	0	0	0	0	0				
70- 74	0	0	0	0	0	0				
75-79	0	0	0	0	0	0				
80-84	0	0	0	0	0	0				
85-89	0	0	0	0	0	0				
90- 94	0	0	0	0	0	0				
95-99	0	0	0	0	0	0				
100-104	0	0	0	0	0	0				
105-109	0	0	0	0	0	0				
110-114	0	0	0	0	0	0				
115-119	0	0	0	0	0	0				
120+	0	0	0	0	0	0				
TOTAL	0	0	1	18,456	1	18,456				
	AVG AGE:	0	AVG AGE:	56.0	AVG AGE:	56.0				
	AVG PENSION:	0	AVG PENSION:	18,456	AVG PENSION :	18,456				



Schedule F: Actuarial Methods and Assumptions

Actuarial Cost Method:	Individual Entry Age Normal Actuarial Cost Method - Under this method, the actuarial present value of the projected benefits of each individual included in the valuation is allocated as a level percentage of the individual's projected compensation between entry age and assumed exit. The normal cost is the portion of the actuarial present value allocated to the valuation year. For inactive members, the actuarial accrued liability is equal to the present value of benefits. Inactive members do not have a normal cost. The portion of this actuarial present value not provided for at the valuation date by the sum of the actuarial value of the assets and actuarial present value of future normal costs is the unfunded actuarial accrued liability. The unfunded actuarial accrued liability represents the excess of the total actuarial accrued liability over the valuation assets.
Asset Valuation Method:	Market value, as reported by the City
Actuarial Assumptions:	
1. Interest	7.50% per year, net of investment expenses
2. Salary Increases	First 10 years beginning with July 1, 2012: 2.75% per year.
	Thereafter, 3.00% per year plus longevity increases of 3.00% after seventh year of employment and 0.50% for each year of employment thereafter through the thirty-first year of employment. No longevity increases are assumed after the thirty-first year of employment.
3. Cost of Living Increases	Members retired prior to August 26, 2011: 2.75% for 10 years beginning with July 1, 2012, 3.0% thereafter.
	Members retired on or after August 26, 2011: Bureau of Labor Statistics CPI for Northeast Urban Wage Earners, not exceeding 3.00% or less than 0.50%, except that for retirees after July 1, 2012, approximated the temporary 10 years of 2.75% salary increases and 3.0% thereafter by assuming cost of living increases of 2.9% in all future years.



4. Mortality

	a. Healthy Members	RP-2000 Combined Healthy Mortality Table, applied on a fully generational basis using Mortality Projection Scale AA. This table contains sufficient margin for improvement in life expectancy.
	b. Disabled Members	The 1985 Wyatt Pension Disability Table (unisex rates)
5.	Disability	Rates of disability are based on an employee's age. Selected ages are listed below. 90% of disabilities are assumed to be service related.
		Drobobility of

	<u>Probability of</u>
Attained Age	<u>Disability</u>
25	0.17%
35	0.29%
45	0.72%
55	1.21%

6. Withdrawal Rates of withdrawal are based on an employee's length of service, as follows:

	Probability of
Years of Service	<u>Withdrawal</u>
Less than 1	3.00%
1	2.25%
2	2.00%
3	1.75%
4	1.50%
5	1.25%
6	1.00%
7	0.75%
8	0.50%
9	0.25%
10 or more	0.00%



7. Retirement

Rates of retirement are based on an employee's length of service, as follows:

Years of Service	Probability of Retirement
20	10%
21	2%
22	2%
23	2%
24	2%
25	40%
26	10%
27	10%
28	10%
29	10%
30	40%
31	20%
32	20%
33	20%
34	20%
35+	100%

8. Administrative Expenses	Assumed to be paid by the Plan Sponsor outside the trust.
9. Benefit Compensation Limits	Benefit limits under Section 415 and compensation limits under Section $401(a)(17)$ of the Internal Revenue Code are assumed to have no impact on benefits earned under this Plan.
10. Marriage/Dependents	90% of active firefighters are assumed to be married. For all participants, wives are assumed to be three years younger than their husbands. For the purposes of valuing the death benefit, unmarried members are assumed to have no dependent children at death.
11. Valuation Date	July 1, 2015.



Schedule G: Summary of Plan Provisions as of July 1, 2015

1. Effective Dates

2. 3.

	Most recent amendment	August 31, 2011
)	Eligibility	All firefighters who contribute to the pension fund.
	Retirement	
	a. Eligibility	Members retired prior to July 1, 2011: 20 years of service.
		Members retired on or after July 1, 2011: earlier of attainment of age 58 or completion of 30 years of service.
	b. Benefit Formula	The annual benefit at retirement is equal to the percentage of final annual salary specified in the table below, plus \$100 per year for each year of service over 25 (maximum \$1,000). For pension purposes, annual salary includes

regular and longevity pay.

Years of Service	Benefit as a <u>Percentage of Final</u> <u>Annual Salary</u>
20	50%
21	52%
22	54%
23	56%
24	58%
25	65%
26	66%
27	67%
28	68%
29	69%
30 or more	70%

c. Commencement Date Retirement benefits commence as of the first payroll period after retirement.

d. Form of Payment The annual benefit calculated in accordance with the formula in (b) above is payable monthly for the remainder of the retired member's life, with 67.5% of the member's benefit payable for the lifetime of the member's surviving spouse.

4. Vested Termination

	a. Eligibility	Upon termination of employment after 10 years of service, a member is eligible for a benefit deferred to retirement age.
	b. Benefit Formula	2.5% of final annual salary multiplied by full years of service at termination.
	c. Commencement Date	25th anniversary of employment.
	d. Form of Payment	Same as retirement.
5.	Disability Retirement	
	a. Eligibility	A member who is retired because of mental or physical incapacity is eligible to receive disability retirement benefits.
	b. Benefit Formula	
	i. Non-Service Related	If a member has fewer than 10 years of service, benefit is 25% of final annual salary. If a member has more than 10 years of service, benefit is 25% of final annual salary plus an additional 2.5% of final annual salary for each year over 10, up to a maximum of 62.5% of final annual salary.
	ii. Service Related	66-2/3% of final annual salary.
	iii. Regular Retirement	If an employee has 25 or more years of service at disability, his pension will be the greater of the disability or retirement pension.
	c. Commencement Date	Benefits commence as of the first payroll period after disability.
	d. Form of Payment	Same as retirement.
6.	Non-Vested Termination of Employment	A member who leaves employment prior to completing 10 years of service will receive a lump sum payment of accumulated contributions.
7.	Death Before Retirement - Survivor Annuity Benefits	
	a. Eligibility	Death while actively employed.
	b. Benefit Formula	Surviving spouse (or, if none, dependent children) receives benefit of 67.5% of final annual salary, reduced pro rata if the deceased member had less than 20 years of service.
	c. Commencement Date	Benefits commence as of the first payroll period after death.
	d. Form of Payment	Monthly life annuity.



8.	Retiree Cost of Living Increase	Members retired prior to August 26, 2011: Pensions for retirees and disabled retirees (but not beneficiaries) are indexed to the negotiated pay increases for active firefighters. Terminated vested members receive 3% annual increases after benefit commencement.
		Members retired on or after August 26, 2011: For those entitled to annual increases, they will equal the Bureau of Labor Statistics CPI for Northeast Urban Wage Earners, but will not exceed 3% nor be lower than 0.5%.
<i>9</i> .	Employee Contributions	9% of salary.