REVISED REPORT ON THE ACTUARIAL VALUATION OF THE NORTH CAROLINA FIREMEN'S AND RESCUE SQUAD WORKERS' PENSION FUND PREPARED AS OF JUNE 30, 2011





April 24, 2012

Board of Trustees North Carolina Firemen's and Rescue Squad Workers' Pension Fund Raleigh, North Carolina

Members of the Board:

The North Carolina Firemen's and Rescue Squad Workers' Pension Fund became effective as of January 1, 1982. It is a continuation of the North Carolina Firemen's Pension Fund which became effective July 1, 1959. Contributions to provide the benefits under the Fund are made jointly by the members and by the State. The members' rate of contribution is fixed at \$10 per month, while the State's rate of contribution is to be determined annually on the basis of actuarial valuations, so that the total contributions of the members and the State, together with the interest earned on the investments of the Fund, will be sufficient to provide all benefits payable from the Fund.

An actuarial valuation of the Fund, prepared as of June 30, 2011, has now been completed and the results are presented in this report, together with our recommendations regarding contributions payable by the State.

The annual required contribution for the fiscal year ending June 30, 2013 is \$14,074,371. The Appropriations Act of 2011 changed the period over which the unfunded actuarial accrued liability is amortized from nine years to 12 years. The annual required contribution of \$14,074,371 reflects this change.

The Fund has a contribution deficit of \$2,524,845 as of June 30, 2011 for unpaid employer contributions in the fiscal years ending June 30, 2001 and June 30, 2011. If the current appropriation of \$15,416,599 for the fiscal year ending June 30, 2013 remains unchanged, the contribution deficit to the Fund could be reduced by \$1,342,228. Alternatively, this amount could be used for benefit improvements or contribution reductions.

The valuation has been prepared in accordance with the parameters of Statement Nos. 25 and 27 of the Governmental Accounting Standards Board (GASB). The annual required contribution (ARC) under GASB for the 2013 fiscal year is \$14,074,371 based on a twelve-year liquidation period of the unfunded accrued liability. The Fund has a Net Pension Obligation (NPO) of \$2,524,845.

The plan sponsor selected the assumptions used for the results in this report. We believe that these assumptions are reasonable and comply with the requirements of GASB Nos. 25 and 27. We prepared this report in accordance with the requirements of these standards.

The undersigned meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all applicable Actuarial Standards of Practice, and we are available to answer questions about it.

The Table of Contents, which immediately follows, outlines the material contained in the report.

Respectfully submitted,

Michael A. Ribble, FSA, EA, MAAA Director, Consulting Actuary Larry Langer, ASA, EA, MAAA Principal, Consulting Actuary

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REPORT ON THE ACTUARIAL VALUATION OF THE NORTH CAROLINA FIREMEN'S AND RESCUE SQUAD WORKERS' PENSION FUND PREPARED AS OF JUNE 30, 2011

SECTION I - SUMMARY OF PRINCIPAL RESULTS

This report, prepared as of June 30, 2011, presents the results of the actuarial valuation of the Fund.
 The principal results of the valuation and a comparison with previous year's results are summarized below.

TABLE I SUMMARY OF PRINCIPAL RESULTS

SUMMARY OF PRINCIPAL RESULTS			
VALUATION DATE	6/30/2011	6/30/2010	
	FIREMEN		
Number of active members included in valuation	36,471	35,216	
Retired membership			
Number Annual pensions	10,408 \$ 21,232,320	10,216 \$ 20,840,640	
Number of deferred disabled members	147	113	
Assets	1 77		
Market related value	\$ 292,213,139	\$ 283,783,155	
Market value	288,065,061	253,037,000	
Unfunded accrued liability	\$ 62,902,341	\$ 50,635,822	
Employer contributions			
Normal	\$ 5,631,487	\$ 6,884,024	
Accrued liability	<u>7,826,149</u>	<u>8,134,525</u>	
Total	\$ 13,457,636	\$ 15,018,549	
	DESCUE SOU	AD WORKERS	
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Number of active members included in valuation	3,263	3,268	
Retired membership Number	1,112	1,082	
Annual pensions	\$ 2,268,480	\$ 2,207,280	
Number of deferred disabled members	12	8	
Assets] 	
Market related value	\$ 35,770,915	\$ 34,489,461	
Market value	35,289,129	30,769,405	
Unfunded accrued liability	\$ 950,687	\$ 1,327,549	
Employer contributions Normal	\$ 503,839	\$ 638,828	
Accrued liability	\$ 503,839 112,896	\$ 638,828 213,268	
Total	\$ 616,735	\$ 852,096	
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TABLE I (continued)

TABLE I (Continued)			
VALUATION DATE	6/30/2011	6/30/2010	
	TO1	ΓAL	
Number of active members included in valuation	39,734	38,484	
Retired membership Number	11,520	11,298	
Annual pensions	\$ 23,500,800	\$ 23,047,920	
Number of deferred disabled members	159	121	
Assets Market related value Market value	\$ 327,984,054 323,354,190	\$ 318,272,616	
Unfunded accrued liability	\$ 63,853,028	283,806,405 \$ 51,963,371	
•	i ' ' '	. , ,	
CONTRIBUTIONS FOR FISCAL YEAR ENDING	JUNE 30, 2013	JUNE 30, 2012	
Recommended Employer contributions	Ф 0.405.000	Ф 7.500.050	
Normal Accrued liability	\$ 6,135,326 7,939,04 <u>5</u>	\$ 7,522,852 <u>8,347,793</u>	
Total	\$ 14,074,371	\$ 15,870,645	
Impact of Legislative Changes	N/A	(1,481,939)	
Final	\$ N/A	\$ 14,388,706	
GASB 25/27			
Annual required contribution (ARC) of employer			
Normal	\$ 6,135,326	\$ 7,522,852	
Accrued liability	<u>7,939,045</u>	<u>8,347,793</u>	
Total	\$ 14,074,371	\$ 15,870,645	
Impact of Legislative Changes	N/A	(1,481,939)	
Final	\$ N/A	\$ 14,388,706	

2. The following table shows a reconciliation of the change in the annual required contribution computed to be \$15,870,645 based on the June 30, 2010 valuation and \$14,074,371 based on the June 30, 2011 valuation.

TABLE II
RECONCILIATION OF CHANGE IN ANNUAL REQUIRED CONTRIBUTION

Prior Year's Preliminary ARC (based on 6/30/10 valuation)	\$ 15,870,645
Impact of Legislative Changes	<u>(1,481,939)</u>
Prior Year's Final ARC	\$ 14,388,706
Change Due to Demographic Gain/Loss	(759,172)
Change Due to Investment Gain/Loss	152,934
Change Due to Contributions Less Than ARC	<u>291,903</u>
Current Year's Preliminary ARC (based on 6/30/11 valuation)	\$ 14,074,371



- 3. Tables summarizing the membership of the Fund as of the valuation date are shown in Section II.
- 4. The valuation balance sheet showing the assets and liabilities of the current and previous valuation dates is provided in Section III.
- 5. An allocation of investments by category is provided in Section IV.
- 6. Contributions payable by the State are provided in Section V.
- 7. Comments on experience and actuarial gains during the valuation year are provided in Section VI.
- 8. Accounting information to be disclosed in the financial statements of the Fund and the employer is provided in Section VII.
- 9. Schedule A of this report presents the development of the actuarial value of assets.
- Schedule B of this report presents the development of the amortization of the unfunded accrued liability.
- 11. Schedule C of this report outlines the full set of actuarial assumptions and methods employed.
- 12. Schedule D gives a summary of the benefit and contribution provisions of the Fund.
- 13. Schedule E provides detailed tabulations of the membership of the Fund as of the valuation date.

SECTION II - MEMBERSHIP DATA

Data regarding the membership of the Fund for use as a basis for the valuation were furnished by the Retirement Fund office. The following table summarizes the membership of the Fund as of June 30, 2011 upon which the valuation was based. Detailed tabulations of the data are given in Schedule E.

TABLE III

THE NUMBER OF ACTIVE MEMBERS
AS OF JUNE 30, 2011

GROUP	NUMBER	AVERAGE AGE	AVERAGE SERVICE
Firemen	21,709	39.3	11.6
Volunteer Firemen	14,762	39.3	10.5
Rescue Squad Workers	3,263	<u>42.6</u>	<u>11.9</u>
Total	39,734	39.6	11.2



TABLE IV

THE NUMBER AND ANNUAL PENSIONS
OF RETIRED MEMBERS AS OF JUNE 30, 2011

20010		AVERAGE AGE	ANNUAL PENSIONS
GROUP	NUMBER	AGE	PENSIONS
Firemen	10,408	68.0	\$ 21,232,320
Rescue Squad Workers	1,112	<u>68.4</u>	2,268,480
Total	11,520	68.0	\$ 23,500,800

TABLE V

THE NUMBER AND ANNUAL PENSIONS OF DISABLED MEMBERS ELIGIBLE FOR DEFERRED PENSION AS OF JUNE 30, 2011

GROUP	NUMBER	AVERAGE AGE	ANNUAL PENSIONS
Firemen	147	49.9	\$ 299,880
Rescue Squad Workers	12	<u>52.3</u>	24,480
Total	159	50.1	\$ 324,360

SECTION III - VALUATION BALANCE SHEET

The following valuation balance sheets show the assets and liabilities of the Pension Fund as of the current valuation date of June 30, 2011 and, for comparison purposes, as of the previous valuation date of June 30, 2010. The development of the actuarial value of assets is presented in Schedule A.



TABLE VI

VALUATION BALANCE SHEET SHOWING THE ASSETS AND LIABILITIES OF THE NORTH CAROLINA FIREMEN'S AND RESCUE SQUAD WORKERS' PENSION FUND

FIREMEN

	June 30, 2011	June 30, 2010
ASSETS		
Current assets: Annuity Savings Fund Pension Accumulation Fund	\$ 34,647,854 257,565,285	\$ 33,510,022 250,273,133
Total current assets	\$ 292,213,139	\$ 283,783,155
Future member contributions to Annuity Savings Fund	\$ 26,745,594	\$ 25,463,756
Prospective contributions to Pension Accumulation Fund: Normal contributions Accrued liability contributions	\$ 38,470,763 62,902,341	\$ 47,561,837 50,635,822
Total prospective contributions	\$ 101,373,104	\$ 98,197,659
Total Assets	\$ 420,331,837	<u>\$ 407,444,570</u>
LIABILITIES		
Annuity Savings Fund: Past member contributions Future member contributions	\$ 34,647,854 26,745,594	\$ 33,510,022 25,463,756
Total contributions to Annuity Savings Fund	\$ 61,393,448	\$ 58,973,778
Pension Accumulation Fund: Benefits currently in payment Benefits to be paid to current active members	\$ 180,320,651 178,617,738	\$ 174,957,949 173,512,843
Total benefits payable from Pension Accumulation Fund	\$ 358,938,389	\$ 348,470,792
Total Liabilities	\$ 420,331,837	<u>\$ 407,444,570</u>



TABLE VI (continued)

VALUATION BALANCE SHEET SHOWING THE ASSETS AND LIABILITIES OF THE NORTH CAROLINA FIREMEN'S AND RESCUE SQUAD WORKERS' PENSION FUND

RESCUE SQUAD WORKERS

	June 30, 2011	June 30, 2010
ASSETS		
Current assets: Annuity Savings Fund Pension Accumulation Fund	\$ 3,076,108 32,694,807	\$ 3,137,794 31,351,667
Total current assets	\$ 35,770,915	\$ 34,489,461
Future member contributions to Annuity Savings Fund	\$ 2,210,015	\$ 2,166,323
Prospective contributions to Pension Accumulation Fund: Normal contributions Accrued liability contributions	\$ 3,140,210 950,687	\$ 3,962,381 1,327,549
Total prospective contributions	\$ 4,090,897	<u>\$ 5,289,930</u>
Total Assets	<u>\$ 42,071,827</u>	<u>\$ 41,945,714</u>
LIABILITIES		
Annuity Savings Fund: Past member contributions Future member contributions	\$ 3,076,108 2,210,015	\$ 3,137,794 2,166,323
Total contributions to Annuity Savings Fund	\$ 5,286,123	\$ 5,304,117
Pension Accumulation Fund: Benefits currently in payment Benefits to be paid to current active members Total benefits payable from Pension	\$ 19,182,497 17,603,207	\$ 18,509,893 18,131,704
Accumulation Fund Total Liabilities	\$ 36,785,704 \$ 42,071,827	\$ 36,641,597 \$ 41,945,714



TABLE VI (continued)

VALUATION BALANCE SHEET SHOWING THE ASSETS AND LIABILITIES OF THE NORTH CAROLINA FIREMEN'S AND RESCUE SQUAD WORKERS' PENSION FUND

TOTAL

	June 30, 2011	June 30, 2010
ASSETS		
Current assets: Annuity Savings Fund Pension Accumulation Fund	\$ 37,723,962 290,260,092	\$ 36,647,816 <u>281,624,800</u>
Total current assets	\$ 327,984,054	\$ 318,272,616
Future member contributions to Annuity Savings Fund	\$ 28,955,609	\$ 27,630,079
Prospective contributions to Pension Accumulation Fund: Normal contributions Accrued liability contributions	\$ 41,610,973 63,853,028	\$ 51,524,218 51,963,371
Total prospective contributions	<u>\$ 105,464,001</u>	\$ 103,487,589
Total Assets	\$ 462,403,664	<u>\$ 449,390,284</u>
LIABILITIES		
Annuity Savings Fund: Past member contributions Future member contributions	\$ 37,723,962 28,955,609	\$ 36,647,816 27,630,079
Total contributions to Annuity Savings Fund	\$ 66,679,571	\$ 64,277,895
Pension Accumulation Fund: Benefits currently in payment Benefits to be paid to current active members Total benefits payable from Pension Accumulation Fund	\$ 199,503,148 196,220,945 \$ 395,724,093	\$ 193,467,842 191,644,547 \$ 385,112,389
Total Liabilities	\$ 462,403,664	\$ 449,390,284

The valuation balance sheet gives the following information with respect to the funds of the system as of June 30, 2011.



Annuity Savings Fund

The Annuity Savings Fund is the fund to which are credited contributions made by members. When a member retires, the amount of his accumulated contributions is transferred from the Annuity Savings Fund to the Pension Accumulation Fund.

The assets credited to the Annuity Savings Fund on account of Firemen on June 30, 2011, which represent the accumulated contributions of members to that date, amounted to \$34,647,854. The balance sheet also shows that the future contributions by members have a present value of \$26,745,594. The present value of both past and future contributions of members is therefore equal to \$61,393,448. The liabilities of this fund are also shown to be equal to \$61,393,448.

The assets credited to the Annuity Savings Fund on account of Rescue Squad Workers on June 30, 2011 amounted to \$3,076,108. The balance sheet also shows that the future contributions by members have a present value of \$2,210,015. The present value of both past and future contributions of members is therefore equal to \$5,286,123. The liabilities of this fund are also shown to be equal to \$5,286,123.

Pension Accumulation Fund

The Pension Accumulation Fund is the fund to which the contributions made by the State are credited and from which are paid all benefits on account of pensioners.

The current assets creditable to the Pension Accumulation Fund on account of Firemen on June 30, 2011 amounted to \$257,565,285. The liabilities on account of active members amounted to \$178,617,738. In addition, the balance sheet indicates liabilities of \$180,320,651 on account of all benefits payable to pensioners as of June 30, 2011. The total liabilities of the Pension Accumulation Fund for Firemen, therefore, amounted to \$358,938,389. The difference between these liabilities and the current assets credited to this Fund is \$101,373,104 which represents the present value of future contributions to be made by the State. Of this amount, \$38,470,763 represents the present value of prospective normal contributions by the State, and the balance of \$62,902,341 represents the present value of prospective accrued liability contributions.

The current assets creditable to the Pension Accumulation Fund on account of Rescue Squad Workers on June 30, 2011 amounted to \$32,694,807. The liabilities on account of active members amounted to \$17,603,207. In addition, the balance sheet indicates liabilities of \$19,182,497 on account of all benefits payable to pensioners as of June 30, 2011. The total liabilities of the Pension Accumulation Fund for Rescue Squad Workers, therefore, amounted to \$36,785,704. The difference between these liabilities and the current assets credited to this Fund is \$4,090,897 which represents the present value of future contributions to be made by the State. Of this amount, \$3,140,210 represents the present value of prospective normal contributions by the State, and the balance of \$950,687 represents the present value of prospective accrued liability contributions.



SECTION IV – ASSET ALLOCATION

The following table shows an allocation of investments by category for the Annuity Savings Fund and Pension Accumulation Fund as of June 30, 2011.

TABLE VII

ALLOCATION OF INVESTMENTS BY CATEGORY
FOR THE ANNUITY SAVINGS FUND AND
PENSION ACCUMULATION FUND AS OF JUNE 30, 2011

Cash and Receivables	0.2%
Fixed Income (LTIF)	37.7
Public Equity	45.1
Other*	<u>17.0</u>
Total	100.0%

^{*} Real Estate, Alternatives, Inflation and Credit.

SECTION V – COMMENTS ON VALUATION

The Appropriations Act of 2011 also changed the period over which the unfunded actuarial accrued liability is amortized from nine years to 12 years.

SECTION VI - CONTRIBUTIONS PAYABLE BY THE STATE

The normal contribution covers the State's share of the cost of benefits based on current service. The valuation indicates that the annual normal contribution payable by the State is equal to \$154.41 multiplied by the number of active members. Based on 36,471 active members included in the valuation, the normal contribution for Firemen is \$5,631,487. Based on 3,263 active members included in the valuation, the normal contribution for Rescue Squad Workers is \$503,839. The valuation also indicated that the annual accrued liability contribution per active member is \$199.80.

The accrued liability is amortized over a period of years through an annual accrued liability contribution. Based on the amortization schedule for the unfunded actuarial accrued liability shown in Schedule B, the annual accrued liability contributions are \$7,826,149 for Firemen and \$112,896 for Rescue Squad Workers.



The total contributions on this basis are \$13,457,636 for Firemen and \$616,735 for Rescue Squad Workers.

The following table shows the annual contributions payable by the State.

TABLE VIII

ANNUAL CONTRIBUTIONS PAYABLE BY THE STATE

CONTRIBUTION	FIREMEN	RESCUE SQUAD WORKERS	TOTAL
Normal	\$ 5,631,487	\$ 503,839	\$ 6,135,326
Accrued Liability	7,826,149	<u>112,896</u>	7,939,045
Total	\$ 13,457,636	\$ 616,735	\$ 14,074,371

The annual required contribution for the fiscal year ending June 30, 2013 is \$14,074,371.

The Fund has a contribution deficit of \$2,524,845 as of June 30, 2011 for unpaid employer contributions in the fiscal years ending June 30, 2001 and June 30, 2011. If the current appropriation of \$15,416,599 for the fiscal year ending June 30, 2013 remains unchanged, the contribution deficit to the Fund could be reduced by \$1,342,228. Alternatively, this amount could be used for benefit improvements or contribution reductions.

The following table shows the annual contribution payable per active member.

TABLE IX

ANNUAL CONTRIBUTION PAYABLE PER ACTIVE MEMBER

CONTRIBUTION	RATE
State Normal Accrued Liability	\$ 154.41 199.80
Total Member* Grand Total	\$ 354.21 <u>120.00</u> \$ 474.21

^{*} Member rate is payable until member has contributed for 20 years.



SECTION VII - COMMENTS ON EXPERIENCE AND GAINS

The following table shows a detailed reconciliation of the change in unfunded accrued liability since the prior valuation.

RECONCILIATION OF CHANGE IN UNFUNDED ACCRUED LIABILITY
SINCE THE PRIOR VALUATION
(IN MILLIONS)

TABLE X

Unfunded accrued liability as of 6/30/10	\$ 52.0
Normal cost	10.5
Reduction due to actual employer and member contributions	(13.1)
Interest on unfunded accrued liability, normal cost and contributions	4.1
Asset (gain)/loss	1.2
Accrued liability (gain)/loss	9.2
Unfunded accrued liability as of 6/30/11	\$ 63.9

SECTION VIII - ACCOUNTING INFORMATION

Statement Nos. 25 and 27 of the Governmental Accounting Standards Board (GASB) set forth certain items of information to be disclosed in the financial statements of the Fund and the employer. One such item is a distribution of the number of employees by type of membership, as follows:

NUMBER OF ACTIVE AND RETIRED PARTICIPANTS AS OF JUNE 30, 2011

GROUP	NUMBER
Retired participants and beneficiaries currently receiving benefits	11,520
Terminated participants and beneficiaries entitled to benefits but not yet receiving	
benefits	159
Active Participants	<u>39,734</u>
Total	51,413

2. Another such item is the schedule of funding progress as shown below.



SCHEDULE OF FUNDING PROGRESS

		Actuarial				UAAL as a
	Actuarial	Accrued	Unfunded			Percentage of
Actuarial	Value of	Liability (AAL)	AAL	Funded	Covered	Covered Payroll
Valuation	Assets	Entry Age	(UAAL)	Ratio	Payroll	,
<u>Date</u>	<u>(a)</u>	<u>(b)</u>	<u>(b-a)</u>	<u>(a/b)</u>	<u>(c)</u>	<u>((b-a)/c)</u>
C/20/0C	#207 022 050	\$204.220.20C	\$40,400,450	04.00/	NI/A	NI/A
6/30/06	\$287,933,056	\$304,339,206	\$16,406,150	94.6%	N/A	N/A
6/30/07	305,869,434	322,453,973	16,584,539	94.9	N/A	N/A
6/30/08	316,973,296	339,022,147	22,048,851	93.5	N/A	N/A
6/30/09	315,697,259	351,324,586	35,627,327	89.9	N/A	N/A
6/30/10	318,272,616	370,235,987	51,963,371	86.0	N/A	N/A
6/30/11	327,984,054	391,837,082	63,853,028	83.7	N/A	N/A

3. Following is a reconciliation of the preliminary employer annual required contribution rate to the final employer annual required contribution for fiscal year ending June 30, 2011.

	Fiscal Year Ending June 30, 2011
Preliminary Annual Required Contribution	
Normal	\$ 6,716,315
Accrued Liability	<u>5,526,611</u>
Total	\$ 12,242,926
Impact of Legislative Changes	0
Final Annual Required Contribution	\$ 12,242,926



4. Following is the calculation of the annual pension cost and net pension obligation for the fiscal year ending June 30, 2011.

Annual Pension Cost and Net Pension Obligation for Fiscal Year Ending 6/30/2011

(a)	Employer annual required contribution	\$ 12,242,926
(b)	Interest on net pension obligation	31,135
(c)	Adjustment to annual required contribution	(68,989)
(d)	Annual pension cost: (a) + (b) + (c)	\$ 12,205,072
(e)	Employer contributions made for fiscal year ending 6/30/2011	<u> 10,109,671</u>
(f)	Increase (decrease) in net pension obligation: (d) – (e)	\$ 2,095,401
(g)	Net pension obligation beginning of fiscal year	429,444
(h)	Net pension obligation end of fiscal year: (f) + (g)	\$ 2,524,845

TREND INFORMATION

Year Ending	Annual Pension Cost (APC)	Percentage of APC Contributed	Net Pension Obligation
June 30, 2009	\$9,713,436	100%	\$473,819
June 30, 2010	10,035,296	100	429,444
June 30, 2011	12,205,072	83	2,524,845

5. The annual required contribution (ARC) of the employer, determined in accordance with the parameters of GASB 25/27, is shown below. The accrued liability rate is based on amortization schedule below.

2012/2013 FISCAL YEAR ANNUAL REQUIRED CONTRIBUTION (ARC) BASED ON THE VALUATION AS OF JUNE 30, 2011

ANNUAL REQUIRED CONTRIBUTION (ARC)	AMOUNT
Normal	\$ 6,135,326
Accrued liability	7,939,045
Total	\$ 14,074,371

AMORTIZATION SCHEDULE FOR UNFUNDED ACTUARIAL ACCRUED LIABILITY

DATE <u>ESTABLISHED</u>						
June 30, 2010	\$	51,963,371	\$	55,730,715	\$	6,865,854
June 30, 2011	\$	8,122,313	\$	8,122,313	<u>\$</u>	1,073,191
Total			\$	63,853,028	\$	7,939,045
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6. Additional information as of June 30, 2011 follows.

Valuation date 6/30/2011

Actuarial cost method Entry age

Amortization method Level dollar closed

Amortization period 12 years

Asset valuation method 20% of market value plus 80% of

expected actuarial value (not greater than 120% of market value and not less than 80% of

market value)

Actuarial assumptions:

Investment rate of return* 7.25%

Projected salary increases N/A

*Includes inflation at 3.50%

Cost-of-living adjustments N/A

SCHEDULE A

DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS FOR THE YEAR ENDING JUNE 30, 2011

		<u>Firemen</u>	Rescue Squad <u>Workers</u>	<u>Total</u>
1.	Actuarial Value of Assets as of June 30, 2010:	\$ 283,783,155	\$ 34,489,461	\$ 318,272,616
2.	2010/2011 Net Cash Flow a. Contributions b. Disbursements c. Net Cash Flow: (a) - (b)	11,705,040 22,423,762 (10,718,722)	1,359,362 2,419,517 (1,060,155)	13,064,402 <u>24,843,279</u> (11,778,877)
3.	Expected Investment Return: [(1) x .0725] + [(2)c x .03625]	20,185,725	2,462,055	22,647,780
4.	Expected Actuarial Value of Assets as of June 30, 2011: (1) + (2)c + (3)	293,250,158	35,891,361	329,141,519
5.	Market Value of Assets as of June 30, 2011:	288,065,061	35,289,129	323,354,190
6.	Excess of Market Value over Expected Actuarial Value of Assets: (5) - (4)	(5,185,097)	(602,232)	(5,787,329)
7.	20% Adjustment towards Market Value: (6) * .20	(1,037,019)	(120,446)	(1,157,465)
8.	Preliminary Actuarial Value of Assets as of June 30, 2011: (4) + (7)	\$ 292,213,139	\$ 35,770,915	\$ 327,984,054
9.	Final Actuarial Value of Assets as of June 30, 2011: [(8) not less than 80% of (5) and not greater than 120% of (5)]	\$ 292,213,139	\$ 35,770,915	\$ 327,984,054
10.	Rate of investment return on actuarial value	6.88%	6.90%	6.88%
11.	Rate of investment return on market value	18.47%	18.45%	18.47%



SCHEDULE B

AMORTIZATION SCHEDULE FOR UNFUNDED ACTUARIAL ACCRUED LIABILITY

FIREMEN

DATE ESTABLISHED	OUTSTANDING BALANCES INCEPTION JUNE 30, 2011			ANNUAL PAYMENT	
June 30, 2010	\$	50,635,822	\$	54,306,920	\$ 6,690,447
June 30, 2011	\$	8,595,421	\$	8,595,421	\$ 1,135,702
Total			\$	62,902,341	\$ 7,826,149

RESCUE SQUAD WORKERS

DATE ESTABLISHED	ı	OUTSTANDING BALANCES INCEPTION JUNE 30, 2011				
June 30, 2010	\$	1,327,549	\$	1,423,795	\$	175,407
June 30, 2011	\$	(473,108)	\$	<u>(473,108)</u>	\$	(62,511)
Total			\$	950,687	\$	112,896
					<u> </u>	

TOTAL

DATE ESTABLISHED	OUTSTANDING INCEPTION		ANCES JNE 30, 2011	ANNUAL PAYMENT		
June 30, 2010	\$ 51,963,371	\$	55,730,715	\$	6,865,854	
June 30, 2011	\$ 8,122,313	\$	8,122,313	\$	1,073,191	
Total		\$	63,853,028	\$	7,939,045	



SCHEDULE C

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

INTEREST RATE: 7.25% per annum, compounded annually.

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed annual rates of withdrawal and vesting, retirement, death and disability are as follows:

ANNUAL RATES OF

•	With	<u>drawal</u>		Retirement*				
				Firefighters and				
		Rescue		Rescue Squad	Volunteer			
<u>Service</u>	<u>Firefighters</u>	Squad Workers	<u>Age</u>	Workers	<u>Firefighters</u>			
0	.030	.05	25					
1	.030	.05	30					
2	.030	.05	35					
3	.030	.05	40					
4	.030	.05	45					
5+	.015	.02	50					
			55	0.75	1.00			
			60	0.75	1.00			
			65	1.00	1.00			
			69	1.00	1.00			

^{*} These rates apply only after 20 years of membership in the system.

ANNUAL RATES OF

<u>Age</u>	Base M	lortality*	Disa	<u>ıbility</u>
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
25	.0004	.0002	.0016	.0016
30	.0006	.0004	.0030	.0030
35	.0009	.0006	.0050	.0050
40	.0012	.0009	.0068	.0068
45	.0017	.0013	.0083	.0083
50	.0024	.0020	.0120	.0120
55	.0036	.0030	.0150	.0150
60	.0059	.0047	.0200	.0200
65	.0086	.0066		
69	.0109	.0083		

^{*} Base mortality rates as of December 31, 2003.



Representative values of the assumed post-retirement mortality rates as of December 31, 2003 prior to any mortality improvements are as follows:

Annual	Rate	f Death	after	Retirement
Alliuai	Nate 0	ı Dealli	anei	Venienieni

<u>Age</u>	Male Healthy <u>Retirees</u>	Female Healthy <u>Retirees</u>	Male Beneficiaries of Deceased <u>Members</u>	Female Beneficiaries of Deceased <u>Members</u>	Male Disabled <u>Retirees</u>	Female Disabled <u>Retirees</u>
55	.0064	.0044	.0061	.0044	.0277	.0176
60	.0099	.0077	.0090	.0077	.0342	.0229
65	.0165	.0125	.0149	.0125	.0407	.0296
70	.0273	.0207	.0246	.0207	.0483	.0401
75	.0469	.0341	.0422	.0341	.0596	.0558
80	.0805	.0563	.0720	.0563	.0775	.0771

MORTALITY IMPROVEMENTS: Representative values of the assumed mortality improvement rates (applied to pre-retirement mortality rates for active members and post-retirement mortality rates for healthy retirees and beneficiaries of deceased members after such tables have been set back or set forward) are as follows:

<u>Age</u>	Male Projection Scale	Female <u>Projection Scale</u>
25	0.010	0.014
30	0.005	0.010
35	0.005	0.011
40	0.008	0.015
45	0.013	0.016
50	0.018	0.017
55	0.019	0.008
60	0.016	0.005
65	0.014	0.005
70	0.015	0.005
75	0.014	0.008
80	0.010	0.007

DEATHS AFTER RETIREMENT (NON-DISABLED): According to the RP-2000 Mortality tables for retirees. These tables are set forward two years for all employees. These tables are also set forward one year for male beneficiaries of deceased members and set forward two years for female beneficiaries of deceased members. The base retiree RP-2000 tables have no rates prior to age 50. The active employee rates of RP-2000 are used for ages less than 50 prior to any adjustments for setbacks.

DEATH AFTER DISABILITY: According to the RP-2000 Mortality tables for disabled annuitants set back six years for males and set forward one year for females.

DEATHS PRIOR TO RETIREMENT: According to the RP-2000 Mortality tables for active employees. These tables are set forward two years for all employees. The base RP-2000 tables for active employees have no rates after age 70. A blend of active rates and retired rates are used from ages 70 to 80 prior to any set back and adjustments.

MORTALITY PROJECTION (NON-DISABLED): All mortality rates are projected from December 31, 2003 using Scale AA.



TIMING OF ASSUMPTIONS: All withdrawals, deaths, disabilities, retirements and salary increases are assumed to occur January 1 of each year.

FUTURE EXPENSES: Equal to prior year actual administrative expenses.

VALUATION METHOD: Entry age normal cost method. Entry age is established on an individual basis. Gains and losses are reflected in the unfunded accrued liability.

ASSET VALUATION METHOD: Actuarial value, as developed in Schedule A. The actuarial value of assets recognizes a portion of the difference between the market value of assets and the expected actuarial value of assets, based on the assumed valuation rate of return. The amount recognized each year is 20% of the difference between market value and expected actuarial value. The actuarial value of assets is not allowed to be greater than 120% of the market value of assets or less than 80% of the market value of assets.



SUMMARY OF BENEFIT AND CONTRIBUTION PROVISIONS

All regular and volunteer firemen of the State of North Carolina whose qualifications are certified by their respective Boards of County Commissioners are eligible to be members of the Fund. All rescue squad workers who are eligible for membership in the North Carolina Association of Rescue Squads, Inc. are eligible to be members of the Fund. Credit for prior service (that is, service rendered prior to July 1, 1959) is granted to firemen who were eligible on July 1, 1959 and became members on or before June 30, 1961. Credit may also be given for certain special purchased service.

BENEFITS

Service Retirement Pension

Condition for Pension

A member who retires after he has attained age 55 and has credit for 20 years of service as a fireman or rescue squad worker in North Carolina is entitled to a monthly pension.

Amount of Pension

The amount of the pension is equal to \$170 per month.

Deferred Early Retirement Pension

Condition for Pension

A member whose service is terminated after he has credit for 20 years of service as a fireman or rescue squad worker in North Carolina but before he has attained age 55 is eligible to receive a deferred retirement pension, starting at age 55, provided he continues to make regular contributions until age 55 or until he has contributed for a total of 20 years, whichever event occurs earlier. Any member who is totally and permanently disabled while in the discharge of his official duties and leaves service as a result of such disability is eligible for a deferred retirement pension commencing at age 55 without continuing to make contributions. Any member who becomes totally and permanently disabled for any cause, other than line of duty, after 10 years of credited service under the Pension Fund may continue to make monthly contributions until he has paid \$2,400 into the Fund and receive a pension upon attainment of age 55.



Amount of Pension

The deferred pension is \$170 per month.

Return of Contributions

Upon the death or withdrawal of a member prior to retirement, his aggregate contributions are refunded in a lump sum.

Upon the death of a retired member, the excess, if any, of his aggregate contributions over the total of the pension payments he has received is refunded.

CONTRIBUTIONS

By Members

Each member contributes \$10 per month until retirement or until he has contributed for a total of 20 years, whichever event occurs earlier.

By State

The State makes annual contributions sufficient, with the members' contributions, to meet the cost of the benefits under the Fund.



TABLE 1

THE NUMBER OF ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE AS OF JUNE 30, 2011

AGE	Under 1	1 to 4	5 to 9	10 to 14	YEARS O 15 to 19	F SERVICE 20 to 24	= 25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	593	3,138	250	0	0	0	0	0	0	0	3,981
25 to 29	342	2,800	1,552	143	0	0	0	0	0	0	4,837
30 to 34	243	2,242	1,679	1,014	104	0	0	0	0	0	5,282
35 to 39	194	1,948	1,493	1,222	811	92	0	0	0	0	5,760
40 to 44	174	1,618	1,327	1,120	976	866	71	0	0	0	6,152
45 to 49	96	1,078	947	895	771	1,140	452	43	0	0	5,422
50 to 54	61	661	635	545	610	1,217	735	299	27	0	4,790
55 to 59	30	350	332	324	407	289	173	79	24	0	2,008
60 to 64	17	202	171	167	181	73	31	9	8	1	860
65 to 69	25	88	86	59	87	24	5	5	0	4	383
70 & up	10	75	75	55	37	3	0	4	0	0	259
Total	1,785	14,200	8,547	5,544	3,984	3,704	1,467	439	59	5	39,734



TABLE 2

THE NUMBER OF ACTIVE MEMBERS DISTRIBUTED BY AGE AS OF JUNE 30, 2011

16 13 0 17 22 1 18 57 0 19 106 2 20 261 8 21 437 21 22 534 28 23 731 30 24 837 33 25 823 37 26 843 49 27 879 59 28 895 59 29 938 66 30 976 73 31 978 62 32 992 60 33 999 71 34 970 78 35 982 90 36 1,016 101 37 987 97 38 1,081 91 39 1,098 94 40 1,084 111 41 1,162 120 42 1,196 86 43	Age	Firemen	Rescue Squad Workers
18 57 0 19 106 2 20 261 8 21 437 21 22 534 28 23 731 30 24 837 33 25 823 37 26 843 49 27 879 59 28 895 59 29 938 66 30 976 73 31 978 62 32 992 60 33 999 71 34 970 78 35 982 90 36 1,016 101 37 987 97 38 1,081 91 39 1,084 111 41 1,162 120 42 1,196 86 43 1,124 105 44 1,105 107 45 1,048 99			
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22 534 28 23 731 30 24 837 33 25 823 37 26 843 49 27 879 59 28 895 59 29 938 66 30 976 73 31 978 62 32 992 60 33 999 71 34 970 78 35 982 90 36 1,016 101 37 987 97 38 1,081 91 39 1,084 111 41 1,162 120 42 1,196 86 43 1,124 105 44 1,105 107 45 1,048 99 46 1,021 91 47 971 94 48 1,046 96 49 959 88			
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39 1,098 94 40 1,084 111 41 1,162 120 42 1,196 86 43 1,124 105 44 1,105 107 45 1,048 99 46 1,021 91 47 971 94 48 1,046 96 49 959 88 50 971 85 51 939 106 52 873 105 53 871 90 54 839 79	37	987	97
40 1,084 111 41 1,162 120 42 1,196 86 43 1,124 105 44 1,105 107 45 1,048 99 46 1,021 91 47 971 94 48 1,046 96 49 959 88 50 971 85 51 939 106 52 873 105 53 871 90 54 839 79	38	1,081	91
41 1,162 120 42 1,196 86 43 1,124 105 44 1,105 107 45 1,048 99 46 1,021 91 47 971 94 48 1,046 96 49 959 88 50 971 85 51 939 106 52 873 105 53 871 90 54 839 79		1,098	94
42 1,196 86 43 1,124 105 44 1,105 107 45 1,048 99 46 1,021 91 47 971 94 48 1,046 96 49 959 88 50 971 85 51 939 106 52 873 105 53 871 90 54 839 79		1,084	
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53 871 90 54 839 79			
54 839 79			



TABLE 2

THE NUMBER OF ACTIVE MEMBERS DISTRIBUTED BY AGE AS OF JUNE 30, 2011

CONTINUED

Age	Firemen	Rescue Squad Workers
56	639	84
57	342	52
58	308	51
59	257	34
60	201	40
61	195	36
62	153	26
63	161	22
64	105	26
65	116	20
66	89	19
67	69	7
68	65	14
69	55	12
70	48	5
71	42	8
72	28	5
73	34	4
74	23	3
75	15	2
76	18	2 2 3
77	15	
78	11	0
79	7	0
80	9	1
81	6	0
82	4	0
83	3	0
84	5	1
85	9	1
Total	36,471	3,263



TABLE 3

THE NUMBER OF ACTIVE MEMBERS DISTRIBUTED BY SERVICE AS OF JUNE 30, 2011

Years of Service	Firemen	Rescue Squad Workers
of	Firemen 1,681 4,772 3,052 3,056 2,321 1,972 1,657 1,502 1,325 1,266 1,214 1,124 955 933 827 753 647 713 779 730 793 819 701 568 552 421 327 236 164 171 145 103 59 49 28 21 18 9 3	
39 40 41 42	1 1 1 0	0 0 0 1
43 44 Total	1 1 36,471	0 0 3,263
. •	55,	3,230



TABLE 4

THE NUMBER AND ANNUAL PENSIONS OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JUNE 30, 2011

	Fir	emen		Rescue Squa	d W	orkers
Age	Number	0111011	Amount	Number	u	Amount
Age	Number		Amount	Number		Amount
35	1	\$	2,040			
46	1		2,040			
55	136		277,440	14	\$	28,560
56	432		881,280	47		95,880
57	485		989,400	54		110,160
58	469		956,760	42		85,680
59	515	•	1,050,600	42		85,680
60	477		973,080	55		112,200
61	467		952,680	48		97,920
62	450		918,000	49		99,960
63	458		934,320	40		81,600
64	516		1,052,640	50		102,000
65	431		879,240	45		91,800
66	382		779,280	32		65,280
67	399		813,960	35		71,400
68	429		875,160	47		95,880
69	388		791,520	46		93,840
70	320		652,800	29		59,160
71	326		665,040	45		91,800
72	312		636,480	43		87,720
73	277		565,080	28		57,120
73 74	243		495,720	32		65,280
75	245		499,800	37		
76	282			20		75,480 40,800
76 77			575,280			
	231		471,240	38		77,520
78 70	213		434,520	24		48,960
79	196		399,840	24		48,960
80	180		367,200	25		51,000
81	163		332,520	16		32,640
82	153		312,120	20		40,800
83	125		255,000	18		36,720
84	134		273,360	9		18,360
85	116		236,640	17		34,680
86	113		230,520	15		30,600
87	92		187,680	6		12,240
88	66		134,640	7		14,280
89	46		93,840	1		2,040
90	46		93,840	5		10,200
91	32		65,280	2		4,080
92	17		34,680	2		4,080
93	21		42,840	2		4,080
94	9		18,360			
95	6		12,240	1		2,040
96	4		8,160			
97	2		4,080			
98						
99						
100+	2		4,080			
Total	10,408	\$ 2	1,232,320	1,112	\$ 2	2,268,480



TABLE 5

THE NUMBER AND ANNUAL PENSIONS OF DISABLED MEMBERS ELIGIBLE FOR DEFERRED PENSION DISTRIBUTED BY AGE AS OF JUNE 30, 2011

	Fii	remen		Rescue Squ	ad Wc	orkers
Age	Number		Amount	Number		Amount
26	1	\$	2,040			
31	1		2,040			
33	1		2,040			
35	1		2,040			
36	3		6,120			
37						
38						
39	1		2,040			
40	2		4,080			
41	2		4,080	1	\$	2,040
42	2 5		4,080	1		2,040
43	5		10,200			
44	5		10,200			
45	6		12,240			
46	5		10,200			
47	9		18,360			
48	13		26,520			
49	6		12,240	2		4,080
50	9		18,360			
51	11		22,440			
52	17		34,680	2		4,080
53	10		20,400	1		2,040
54	9		18,360	1		2,040
55	7		14,280			
56	3		6,120			
57	2		4,080	2		4,080
58	8		16,320	1		2,040
59	1		2,040			
60	2		4,080			
61	1		2,040			
62	1		2,040			
63						
64				1		2,040
65						
66	1		2,040			
67	1		2,040			
68	1		2,040			
Total	147	\$	299,880	12	\$	24,480

