

The experience and dedication you deserve

October 27, 2011

Board of Trustees Charlotte Firefighters' Retirement System 428 East Fourth Street Suite 205 Charlotte, NC 28202

Dear Members of the Board:

We are pleased to submit herewith the results of the annual actuarial valuation of the City of Charlotte Firefighters' Retirement System prepared as of July 1, 2011. The purpose of this report is to provide a summary of the funded status of the System as of July 1, 2011, to recommend rates of contribution and to provide accounting information under Governmental Accounting Standards Board Statements No. 25 and 27 (GASB 25 and 27). In performing the valuation, we relied on data provided by the System. While not verifying the data at source, the actuary performed tests for consistency and reasonability.

The promised benefits of the System are included in the actuarially calculated contribution rates which are developed using the entry age cost method. A five-year smoothed market value of plan assets was used for the actuarial value of assets. Gains and losses are reflected in the unfunded accrued liability that is being amortized by regular annual contributions as a level percentage of payroll within a 30-year period, on the assumption that payroll will increase by 3.25% annually. The annual required employer contribution rate is 14.39% of payroll for the fiscal year ending June 30, 2013. The assumptions recommended by the actuary and adopted by the Board are in the aggregate reasonably related to the experience under the System and to reasonable expectations of anticipated experience under the System. There have been no changes to assumptions, methods, or plan provisions since the previous valuation.

The valuation has been prepared in accordance with the parameters set forth in Statement Nos. 25 and 27 of the Governmental Accounting Standards Board. The annual required contribution (ARC) of the City under GASB for the fiscal year ending June 30, 2013 is 14.39% of payroll, which will amortize the unfunded accrued liability of \$42,851,622 over a 30-year period.

We have prepared the Schedule of Active Member Valuation Data, Schedule of Retired Members and Beneficiaries Added to and Removed from Rolls, the Solvency Test and the Analysis of Financial Experience for the actuarial section of the Annual Report and the Schedule of Funding Progress and Trend Information for the financial section of the Annual Report.

This is to certify that the independent consulting actuary is a Member of the American Academy of Actuaries and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the System and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the System.

In our opinion, in order for the System to operate in an actuarially sound manner, contributions equal to the ARC are necessary for future fiscal years. Assuming that the annual required employer contributions to the System are made by the City from year to year in the future at the rates recommended on the basis of the successive actuarial valuations, the continued sufficiency of the retirement fund to provide the benefits called for under the System may be safely anticipated.

Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

We trust that the report will meet the approval of the Board and will furnish the desired information concerning the financial condition of the System.

Respectfully submitted,

Todd B. Green, ASA, FCA, MAAA Principal and Senior Actuary

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TBG/CT:dmw

Cathy Turcot

Principal and Managing Director



CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM REPORT OF THE ACTUARY ON THE ANNUAL VALUATION PREPARED AS OF JULY 1, 2011

SECTION I – SUMMARY OF PRINCIPAL RESULTS

 For convenience of reference, the principal results of the current and preceding valuations are summarized below.

Valuation Date		July 1, 2011		July 1, 2010	
Active members:					
Number		1,028		1,031	
Annualized compensation	\$	59,086,270	\$	59,079,990	
Retired members and beneficiaries:					
Number		505		492	
Annual allowances	\$	20,386,139	\$	19,428,912	
Number of terminated vested members*		8		5	
Assets:					
Market Value	\$	366,069,651	\$	295,685,261	
Actuarial Value		366,146,738		357,651,656	
Unfunded actuarial accrued liability	\$	42,851,622	\$	37,740,769	
Funded Ratio		89.5%		90.5%	
Amortization Period	30 years			30 years	
Fiscal Year Ending	June 30, 2013		June 30, 2012		
City annual required contribution rate (ARC):					
Normal (including expenses of 0.75%)		10.01%		9.89%	
Accrued liability		4.38		3.86	
Total		14.39%		13.75%	
Member contribution rate		12.65%		12.65%	

^{*}In addition, there are 25 inactive members as of July 1, 2011 that are expected to receive a refund of member contributions that have not yet been paid.

2. The major benefit and contribution provisions of the System as reflected in the valuation are summarized in Schedule G. There have been no changes since the previous valuation.



- 3. Schedule E of this report outlines the full set of actuarial assumptions and methods used in the valuation. There have been no changes since the previous valuation.
- 4. The entry age actuarial cost method was used to prepare the valuation. Schedule F contains a brief description of the actuarial cost method.
- Comments on the valuation results as of July 1, 2011 are given in Section IV and further discussion of the contributions is set out in Section V.

SECTION II - MEMBERSHIP DATA

- Data regarding the membership of the System for use as a basis of the valuation were furnished by the City. The valuation included 1,028 active members with annualized compensation totaling \$59,086,270.
- The following table shows the number of retired members and beneficiaries as of July 1, 2011 together with the amount of their annual retirement benefits payable under the System as of that date.

THE NUMBER AND ANNUAL BENEFITS OF RETIRED MEMBERS AND BENEFICIARIES AS OF JULY 1, 2011

GROUP	NUMBER*	ANNUAL RETIREMENT BENEFITS
Service Retirements	424	\$ 18,661,858
Disability Retirements	51	1,212,900
Beneficiaries of Deceased Members	_30	511,381
	t t t	
Total	505	\$ 20,386,139

^{*}In addition, there are 8 terminated members entitled to deferred vested benefits and 25 other inactive members expected to receive a refund of member contributions that have not yet been paid.



3. Table 1 of Schedule H shows the distribution by age and years of membership service of the number of active members included in the valuation, while Table 2 shows the number and annual benefits of retired members and beneficiaries included in the valuation, distributed by age. Table 3 shows the schedule of active member valuation data and Table 4 shows the schedule of retired members and beneficiaries added to and removed from the rolls.

SECTION III - ASSETS

As of July 1, 2011, the total market value of assets amounted to \$366,069,651. The actuarial value of assets used for the current valuation was \$366,146,738. Schedule C shows the development of the actuarial value of assets as of July 1, 2011. Schedule D shows the allocation of the System's assets and the market value of assets for three years.

SECTION IV - COMMENTS ON VALUATION

- Schedule B of this report contains the valuation balance sheet which shows the present and prospective assets and liabilities of the System as of July 1, 2011. The valuation was prepared in accordance with the actuarial assumptions set forth in Schedule E and the actuarial cost method which is described in Schedule F.
- 2. The valuation balance sheet shows that the System has total prospective liabilities of \$550,080,125 of which \$191,742,473 is for the prospective benefits payable on account of present retired members, beneficiaries of deceased members, and terminated members entitled to deferred benefits, and \$358,337,652 is for the prospective benefits payable on account of present active members. Against these liabilities, the System has a total present actuarial value of assets of \$366,146,738 as of July 1, 2011. The difference of \$183,933,387 between the total liabilities and the total present assets represents the present value of future contributions.
- 3. The contributions to the System consist of normal contributions and accrued liability contributions. The valuation indicates that normal contributions at the rate of 21.91% of payroll are required under the entry age method. Of this amount, 12.65% is paid by the members and the remaining 9.26% is required by the City.
- 4. Prospective normal contributions at the rate of 21.91% have a present value of \$141,081,765. When this amount is subtracted from \$183,933,387, which is the present value of the total future



contributions to be made, there remains \$42,851,622 as the amount of unfunded accrued liability contributions. The development of the unfunded accrued liability is shown in Schedule A.

SECTION V - CONTRIBUTIONS PAYABLE

- The contributions consist of a normal contribution and an accrued liability contribution as determined by actuarial valuation.
- 2. The normal contribution rate is calculated as the level percentage of payroll which, if applied for the average new member during the entire period of his anticipated covered service, would be required to meet the cost of all benefits payable on his behalf. On the basis of the valuation, the normal contribution rate was determined to be 21.91%.
- 3. Section 24 of Title V of the Charlotte Firefighters' Retirement System Act states that each member shall contribute an amount equal to the Member's Compensation multiplied by 12.65%.
- 4. The City normal contribution rate is equal to the difference between the normal contribution rate of 21.91% and the member contribution rate of 12.65%, or 9.26% of payroll. An additional 0.75% is required for expenses, making the total City normal rate 10.01% of payroll.
- 5. Section 25 of Title V of the Charlotte Firefighters' Retirement System Act states that the City of Charlotte shall contribute an amount equal to the Member's Compensation multiplied by 12.65%. For the fiscal year ending June 30, 2013, these contributions are not sufficient to fund the system in an actuarially sound manner. The annual required employer contribution (ARC) rate beginning July 1, 2012 is 14.39% of payroll.
- 6. Based on a total employer rate of 14.39%, the annual accrued liability contribution rate is determined to be 4.38% of payroll. This rate will be sufficient to amortize the unfunded actuarial accrued liability of \$42,851,622 within approximately 30 years following the valuation date, on the assumption that the payroll will increase 3.25% each year.



7. The following table summarizes the employer contributions which were determined by the July 1, 2011 valuation and are recommended for use.

CITY ANNUAL REQUIRED CONTRIBUTIONS (ARC) FOR FISCAL YEAR ENDING JUNE 30, 2013

CONTRIBUTION	PERCENTAGE OF ACTIVE MEMBERS' COMPENSATION
Normal (including expenses of 0.75%)	10.01%
Accrued Liability	4.38
Total	14.39%

SECTION VI - ACCOUNTING INFORMATION

1. Governmental Accounting Standards Board Statements 25 and 27 set forth certain items of required supplementary information to be disclosed in the financial statements of the System 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 JULY 1, 2011

GROUP	NUMBER*
Retired participants and beneficiaries currently receiving benefits	505
Terminated participants and beneficiaries entitled to benefits but not yet receiving benefits	8 -
Active Participants	1,028
Total	1,541

^{*}In addition, there are 25 inactive members expected to receive a refund of member contributions that have not yet been paid.



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

SCHEDULE OF FUNDING PROGRESS

(dollar amounts in thousands)

Actuarial Valuation <u>Date</u>	Actuarial Value of Assets <u>(a)</u>	Actuarial Accrued Liability (AAL) Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a / b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b - a) / c)
7/01/2006	\$309,859	\$316,907	\$7,048	97.8%	\$50,038	14.1%
7/01/2007	336,423	334,816	(1,607)	100.5	52,463	(3.1)
7/01/2008 ¹	358,536	361,375	2,839	99.2	55,219	5.1
7/01/2009	360,003	376,027	16,024	95.7	56,890	28.2
7/01/2010 ²	357,652	395,393	37,741	90.5	59,080	63.9
7/01/2011	366,147	408,999	42,852	89.5	59,086	72.5

3. 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 June 30, 2011

(a)	Employer annual required contribution	\$	8,131,000
(b)	Interest on net pension obligation		(537,000)
(c)	Adjustment to annual required contribution	_	(394,000)
(d)	Annual pension cost (a) + (b) - (c)	\$	7,988,000
(e)	Employer contributions made for fiscal year ending June 30, 2011		7,670,000
(f)	Increase (decrease) in net pension obligation (d) - (e)	\$	318,000
(g)	Net pension obligation beginning of fiscal year		(6,927,000)
(h)	Net pension obligation end of fiscal year (f) + (g)	\$	(6,609,000)

¹Reflects 4% COLA effective January 1, 2008. ²Economic and demographic assumptions were changed as of July 1, 2010 due to an experience review.



TREND INFORMATION

(dollar amounts in thousands)

Year Ending	Annual Pension Cost (APC)	Percentage of APC Contributed	Net Pension Obligation (NPO)
June 30, 2009	\$6,560	111.9%	\$(7,692)
June 30, 2010	8,205	90.7	(6,927)
June 30, 2011	7,988	96.0	(6,609)

4. The annual required contribution (ARC) as a percentage of payroll, determined in accordance with the parameters of GASB 25/27, is shown below.

EMPLOYER ANNUAL REQUIRED CONTRIBUTION (ARC) FOR FISCAL YEAR ENDING JUNE 30, 2013

CONTRIBUTION	PERCENTAGE OF ACTIVE MEMBERS' COMPENSATION
Normal (including expenses)	10.01%
Accrued liability	<u>4.38</u>
Total	14.39%

5. Additional information as of July 1, 2011 follows:

Valuation date	7/01/2011
Actuarial cost method	Entry age
Amortization period	Level Percent of Pay, Open
Remaining amortization period	30 years
Asset valuation method	Five-year smoothed market value
Actuarial assumptions:	
Investment rate of return (includes inflation)	7.75%
Projected salary increases (includes inflation)	4.25 - 11.25%
Inflation	3.25%
Cost-of-living adjustments	None



SECTION VII – EXPERIENCE

- 1. As an aid to the Board in adopting service and mortality tables, the actuary prepared an experience investigation for the five-year period ending June 30, 2009. The valuation was based on the assumptions adopted by the Board at the April 22, 2010 Board meeting as a result of that investigation.
- 2. The following table shows the estimated change in the unfunded accrued liability from various factors that resulted in an increase of \$5,110,853 in the unfunded accrued liability from \$37,740,769 to \$42,851,622 during the fiscal year ending June 30, 2011.

ANALYSIS OF FINANCIAL EXPERIENCE – CHANGE IN UNFUNDED ACCRUED LIABILITY (dollar amounts in thousands)

ITEM	AMOUNT OF INCREASE/(DECREASE)
Interest (7.75%) added to previous unfunded accrued liability	\$ 2,925
Accrued Liability Contribution	(2,309)
Recognized Asset (Gain)/Loss	14,154
Liability (Gain)/Loss	(944)
Salary Increases	(8,715)
Amendments (COLA)	0
Assumption and Method Changes	0
Increase/(Decrease) in Unfunded Accrued Liability	\$5,111



SCHEDULE A

DEVELOPMENT OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY AS OF JULY 1, 2011

(1)	Prese	nt value of prospective benefits:		
	(a)	Present active members	\$	358,337,652
	(b)	Present retired members, beneficiaries and former members entitled to deferred vested benefits and refunds		191,742,473
	(c)	Total	\$	550,080,125
(2)		nt value of future System and member normal contributions expenses	-	141,081,765
(3)	Actuar	ial accrued liabilities 1(c) - (2)	\$	408,998,360
(4)	Actuar	ial value of assets	y	366,146,738
(5)	Unfun	ded actuarial accrued liability (3) – (4)	\$	42,851,622



SCHEDULE B

VALUATION BALANCE SHEET

The present and prospective assets and liabilities of the System as of July 1, 2011:

ACTUARIAL LIABILITIES	
Present value of prospective benefits payable on account of present retired members, beneficiaries of deceased members, and terminated members entitled to deferred benefits and refunds	\$ 191,742,473
Present value of prospective benefits payable on account of present active members	<u>358,337,652</u>
Total liabilities	<u>\$ 550,080,125</u>
PRESENT AND PROSPECTIVE ASSETS	
Actuarial value of assets	\$ 366,146,738
Present value of future contributions	
City and member normal contributions \$ 141,081	,765
Unfunded accrued liability contributions42,851,	<u>622</u>
Total prospective contributions	\$ 183,933,387
Total assets	<u>\$ 550,080,125</u>



SOLVENCY TEST

(dollar amounts in millions)

	Aggregate	Accrued Liabili		Portion of Accrued Liabilities Covered by Reported Assets			
Valuation Date	(1) Active Member Contributions	(2) Retirees and Beneficiaries	(3) Active Members (Employer Financed Portion)	Reported Assets	(1)	(2)	(3)
7/1/11	\$77.9	\$191.7	\$139.4	\$366.1	100%	100%	69.2%
7/1/10 ¹	73.4	185.9	136.1	357.7	100	100	72.3
7/1/09	69.0	171.2	135.8	360.0	100	100	88.2
7/1/08 ²	62.6	164.6	134.1	358.5	100	100	97.9
7/1/07	60.1	151.4	123.2	336.4	100	100	100.0
7/1/06	52.8	149.7	114.4	309.9	100	100	93.9
7/1/05 ³	49.8	145.5	105.0	291.2	100	100	91.3
7/1/04	46.7	139.5	106.1	274.9	100	100	83.6
7/1/03	42.5	137.3	98.0	261.0	100	100	82.9
7/1/02	39.7	130.5	95.5	254.0	100	100	87.7

All figures prior to July 1, 2005 were reported by a prior actuarial firm.

¹Economic and demographic assumptions were changed as of July 1, 2010 due to an experience review.
²Reflects 4% COLA effective January 1, 2008.
³Demographic assumptions were changed as of July 1, 2005 due to an experience review.



SCHEDULE C DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS

(1)	Actuarial Value of Assets as of July 1, 2010	\$	357,651,656	
(2)	Market Value of Assets as of July 1, 2011		366,069,651	
(3)	Market Value of Assets as of July 1, 2010		295,685,261	
(4)	Net Cash Flow During Plan Year			
	(a) Contributions		15,958,000	
	(b) Benefit Payments		20,838,000	
	(c) Net Cash Flow (a) – (b)		(4,880,000)	
(5)	Investment Return			
	(2) - (3) - (4c)	9 9 9 9 9 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	75,264,390	
(6)	Expected Investment Return			
	$[(3) \times 7.75\%] + [(4)c \times 7.75\% \times 0.5]$		22,726,508	
(7)	Investment Gain/(Loss) for Phased-In Recognition (5) – (6)	52,537,882		
(8)	Recognized Amounts for Plan Year			
	(a) Current Year 0.20 x (7)		10,507,576	
	(b) First Prior Year		1,494,855	
	(c) Second Prior Year	4	(18,703,539)	
	(d) Third Prior Year	P	(9,184,882)	
	(e) Fourth Prior Year		6,534,564	
	(f) Total Recognized Investment Gain/(Loss)		(9,351,426)	
(9)	Actuarial Value of Assets as of July 1, 2011			
	(1) + (4)(c) + (6) + (8)(f)	\$	366,146,738	
(10)	Rate of Return on Actuarial Value		3.77%	
(11)	Rate of Return on Market Value	5 2 5 6 8 1 1 1 1	25.67%	



SCHEDULE D

ASSET INFORMATION

Reconciliation of Market value of Assets (In Thousands)

(m modelinas)				
		Years En	ded Ju	ine 30
		2011		2010
Market Value of Assets - Beginning of Year		295,685		272,104
ADDITIONS:				
Contributions:				
Member	\$	8,288	\$	7,758
Employer		7,670		7,440
Total Contributions		15,958		15,198
Investment Income (loss):			-	
Net Appreciation (depreciation) in fair value of investments		73,501		26,550
Interest		1,510		1,617
Dividends		2,179		1,896
		77,190		30,063
Less Investment Expense		1,891	_	1,669
Net Investment Income (loss)		75,299		28,394
Total Additions (loss)		91,257		43,592
DEDUCTIONS:				
Benefits		20,080		19,210
Refunds		248		200
Administration		510		583
Depreciation		34		18
Total Deductions		20,872		20,011
Change in Net Assets		70,385		23,581
Market Value of Assets - End of Year	\$	366,070	\$	295,685
Allocation of Market Value of Asse	<u>ets</u>			
luna 30, 2011 luna	30 30	010	luno 3	0.2000

	June 30, 2011		J	une 30, 2010	J	une 30, 2009
Cash	\$	(90,969)	\$	(159,503)	\$	(995,230)
Cash Equivalents		4,712,602		5,562,307		5,072,587
Fixed Income Investments		91,742,569		88,348,480		83,781,080
Equity Investments		269,497,448		201,611,816		183,953,108
Other		364,057		234,077		251,484
Accrued Income		399,688		393,368		377,499
Accrued Contributions		521,487		460,807		407,991
Accrued Liabilities/Expenses		(1,077,232)		(766,091)		(744,767)
Total Market Value	\$	366,069,650	\$	295,685,261	\$	272,103,752



SCHEDULE E

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

The assumptions and methods used in the valuation were selected by the Actuary and adopted by the Board April 22, 2010.

INVESTMENT RATE OF RETURN: 7.75% per year, compounded annually.

SALARY INCREASES: Representative values of the assumed annual rates of salary increases are as follows:

Years of Service	Rate*
≤ 5	11.25%
6	10.25
7	8.75
8	7.75
9	6.75
10 - 14	5.25
15	4.75
16	4.25

^{*}Includes inflation of 3.25% and real rate of salary increase component of 1.00%

SEPARATIONS FROM ACTIVE SERVICE: For death rates, the RP 2000 Employee Mortality Table was used. Representative values of the assumed annual rates of separation from active service are as follows:

		Annual Rate of	
<u>Age</u>	Withdrawal	Disability*	Death
20	1.8%	0.04%	0.03%
25	1.5	0.04	0.04
30	1.0	0.06	0.04
35	0.8	0.16	0.08
40	0.6	0.29	0.11
45	0.4	0.43	0.15
50		0.70	0.21
55		1.00	0.30

^{*65%} of the disabilities are assumed to be in the line of duty.



Annual Rate of Retirement*

Age	Age 60 with 5 Years Service or 25 Years Service	Age 50 with 25 Years Service*	30 Years Service
< 50	12%	N/A	40%
50 - 53	12	25%	40
54 – 56	12	50	40
57 – 64	12	20	40
65	100	100	100

^{*}An additional 20% are assumed to retire when first eligible.

DEATHS AFTER RETIREMENT: The RP-2000 Combined Healthy Retiree Mortality Table is used for the period after retirement and for dependent beneficiaries. The UP 1994 Mortality Table set forward five years is used for the period after disability retirement.

EXPENSES: 0.75% of payroll.

PERCENT MARRIED: 100% of active members are assumed to be married with the male three years older than his spouse.

ASSETS: Actuarial value, as developed in Schedule B. 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.

VALUATION METHOD: Entry age actuarial cost method. See Schedule F for a brief description of this method.

UNUSED SICK AND VACATION DAYS: 12% load on Final Average Salary at Retirement for cashed-in vacation and sick days. In addition, ½ year added to credited service at retirement.

PAYROLL GROWTH ASSUMPTION: 3.25% per year.



SCHEDULE F

ACTUARIAL COST METHOD

- 1. The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 7.75%), of each member's expected benefits at retirement or death is determined, based on age, service and sex. The calculations take into account the probability of a member's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his terminating with a service, disability or survivor's benefit. The present value of the expected benefits payable on account of the active members is added to the present value of the expected future payments to retired members and beneficiaries to obtain the present value of all expected benefits payable from the System on account of the present group of members and beneficiaries.
- The employer contributions required to support the benefits of the System are determined following a level funding approach, and consist of a normal contribution and an accrued liability contribution.
- 3. The normal contribution is determined using the entry age actuarial cost method. Under this method, a calculation is made to determine the level percentage of payroll which, if applied for the average new member during the entire period of his anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on his behalf.
- 4. The unfunded accrued liability is determined by subtracting the present value of prospective employer normal contributions and member contributions, together with the current actuarial value of assets held, from the present value of expected benefits to be paid from the System.



SCHEDULE G

SUMMARY OF MAIN SYSTEM PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

Member An employee of the Charlotte Fire Department who is

subject to the provisions of the Civil Service Act.

Membership Service Credit Service for all periods of employment with the Charlotte

Fire Department for which contributions have been paid.

Final Average Salary A member's average monthly compensation for the

highest 2 consecutive years within the last 5 years of membership service. Salary in the final year includes

cashed-in vacation and sick days.

Accrued Benefit The monthly amount of retirement benefits earned by a

member as of any date computed on his Final Average Salary and Membership Service Credit at that date.

Service Retirement Benefit

Eligibility Age 50 and 25 years of membership service credit, age

60 and 5 years of membership service credit or 30 years

of membership service credit.

Benefit Monthly benefit is 2.6% of final average salary multiplied

by years of membership service credit. The minimum

monthly benefit is \$902.75.

Early Retirement Benefit

Eligibility 25 years of membership service credit.

Benefit Accrued benefit reduced by 3% for each year member is

under age 50.

In the Line of Duty Disability

Retirement Benefit

Eligibility No requirements.

Benefit 78% of final average salary or normal retirement benefit

if greater.

Not in the Line of Duty Disability

Retirement Benefit

Eligibility 10 years of service.

Benefit 39% of final average salary plus 1.95% of such salary for

each year of membership service credit in excess of 10

years, not less than \$902.75 per month.



Deferred Vested Retirement Benefit

Eligibility

Benefit

Termination Benefit

Death Benefit

Optional Forms of Benefit

Contributions

5 years of service. Member contributions not withdrawn.

Accrued benefit payable at age 60. A member may choose a refund of contributions with 4% interest in lieu of this benefit.

If a member is terminated with less than 5 years of membership service credit, he is entitled to a return of his accumulated contributions.

If a member dies in service, his beneficiary is entitled to receive a lump sum equal to the return of the member's accumulated contributions, plus those contributions made by the City on his behalf, plus interest of 4% per year. In lieu of the lump sum, his beneficiary may elect an annuity which is the actuarial equivalent of the lump sum. If the deceased member was eligible for a service or early retirement on the day before death, the spouse may elect to receive the actuarial equivalent monthly benefit under the 66-2/3% Joint and Survivor Option.

- (1) 10 year certain and life annuity.
- (2) 100%, 75%, 66-2/3% or 50% joint and survivorship annuity.
- (3) Joint and survivorship annuity with a pop-up provision.

The City and the members each contribution 12.65%.



SCHEDULE H

TABLE 1

DISTRIBUTION OF ACTIVE MEMBERS BY AGE AND SERVICE GROUPS AS OF JULY 1, 2011

	Completed Years of Service											
Attained Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Over	Total		
Under 25 Average Pay	11 \$36,275	33 \$37,874								44 \$37,474		
25 to 29 Average Pay	6 \$37,263	73 \$38,989	51 \$ 4 9,196							130 \$42,914		
30 to 34 Average Pay	6 \$37,884	37 \$39,519	73 \$52,353	56 \$60,035						172 \$51,589		
35 to 39 Average Pay	3 \$37,263	20 \$39,398	53 \$53,353	83 \$60,770	27 \$70,323					186 \$57,366		
40 to 44 Average Pay	1 \$35,461	5 \$41,129	14 \$52,751	60 \$60,884	46 \$65,340	55 \$68,071	1 \$75,476			182 \$62,954		
45 to 49 Average Pay		3 \$39,841	1 \$53,700	28 \$58,814	23 \$66,081	95 \$65,956	25 \$69,789			175 \$64,859		
50 to 54 Average Pay				5 \$58,880	11 \$62,000	47 \$64,848	35 \$71,704	3 \$83,464		101 \$67,171		
55 to 59 Average Pay			2 \$52,547		3 \$76,734	14 \$68,175	6 \$83,229	8 \$75,222		33 \$72, 4 51		
60 to 64 Average Pay						4 \$60,227		1 \$91,112		5 \$66,404		
65 to 69 Average Pay										0 \$0		
70 & up Average Pay										0 \$0		
Total Count Average Pay	27 \$36,932	171 \$39,014	194 \$51,834	232 \$60,345	110 \$66,695	215 \$66,293	67 \$72,078	12 \$78,606	0 \$0	1,028 \$57,477		

Average Age: 39.5 Average Service: 13.3



TABLE 2

NUMBER OF RETIRED MEMBERS AND BENEFICIARIES
AND THEIR BENEFITS BY AGE

Attained Age	Number of Members	Total Annual Benefits		Average	Annual Benefits
50 & Under	16	\$	585,299	\$	36,581
51 - 55	61		2,884,865		47,293
56 - 60	107		4,743,065		44,328
61 - 65	113		4,471,096		39,567
66 - 70	79		3,180,752		40,263
71 - 75	57		2,346,285		41,163
76 - 80	45		1,450,659		32,237
Over 80	_27		724,119		26,819
Total	505	\$	20,386,140	\$	40,369

TABLE 3
SCHEDULE OF ACTIVE MEMBER VALUATION DATA

Valuation <u>Date</u>	Number Prior <u>Year</u>	Exits	New Entrants & <u>Rehires</u>	Number Current <u>Year</u>	Annual <u>Payroll</u>	Annual Average <u>Pay</u>	% Increase in Average Pay
7/1/11	1031	30	27	1028	\$59,086,270	\$57,477	0.3%
7/1/10	991	25	65	1031	59,079,990	57,304	0.0
7/1/09	957	22	56	991	56,890,253	57,407	-0.5
7/1/08	948	27	36	957	55,219,358	57,700	4.3
7/1/07	953	25	20	948	52,462,717	55,340	5.4
7/1/06	935	25	43	953	50,037,809	52,506	4.1
7/1/05	897	22	60	935	47,165,418	50,444	2.8
7/1/04	876	17	38	897	44,009,056	49,062	3.9
7/1/03	856	29	49	876	41,354,976	47,209	1.4
7/1/02	853	31	34	856	39,848,691	46,552	4.3

Results prior to the 7/1/05 valuation were reported by a prior actuarial firm.



TABLE 4

SCHEDULE OF RETIRED MEMBERS AND BENEFICIARIES ADDED TO AND REMOVED FROM ROLLS

	Roll	ls – Beginning of Year	Added to Rolls		Removed from Rolls Rolls – End of Year					
Year Ended	<u>No.</u>	Annual Allowances	<u>No.</u>	Annual Allowances	<u>No.</u>	Annual <u>Allowances</u>	No.	Annual <u>Allowances</u>	% Increase in Annual Allowances	Average Annual <u>Allowances</u>
7/1/11	492	\$19,428,912	22	\$1,180,748	9	\$223,521	505	\$20,386,139	4.9%	\$40,369
7/1/10	477	18,461,651	22	1,136,772	7	169,511	492	19,428,912	5.2	39,490
7/1/09	466	17,656,422*	23	1,176,339	12	371,110	477	18,461,651	4.6	38,704
7/1/08	456	16,204,943	22	1,813,530*	12	362,051	466	17,656,422*	9.0	37,889
7/1/07	452	15,910,529	15	652,817	11	358,403	456	16,204,943	1.9	35,537
7/1/06	443	15,438,131	18	707,890	9	235,492	452	15,910,529	3.1	35,200
7/1/05	435	14,887,728	19	854,621	11	304,218	443	15,438,131	3.7	34,849
7/1/04	427	14,512,752	16	629,172	8	254,196	435	14,887,728	2.6	34,225
7/1/03	411	13,754,121	23	970,560	7	211,929	427	14,512,752	5.5	33,988
7/1/02	389	12,824,893	29	1,202,320	7	273,092	411	13,754,121	7.2	33,466

Results prior to the 7/1/05 valuation were reported by the prior actuarial firm.

^{*} Includes 4.00% benefit adjustment effective January 1, 2008.