

65 LaSalle Road | West Hartford, CT 06107-2397 | Founded in 1956

Confidential

March 18, 2011

Mr. Adam Cloud, Secretary City of Hartford Pension Commission Office of the Treasurer 550 Main Street Hartford, CT 06103

Re: 2010 MERF Actuarial Survey

Dear Adam:

We are pleased to present the Annual Valuation of the City of Hartford Municipal Employees' Retirement Fund for 2010. Eleven additional copies are included for distribution.

Recommended contribution rates are as follows:

| | Recommended Fiscal Year 2011-2012 Contribution (2010 MERF Actuarial Survey) | Recommended Fiscal Year 2010-2011 Contribution (2009 MERF Actuarial Survey) |
|--------------------|---|---|
| Police | 17.91% | 9.94% |
| Firefighters | 11.30% | 1.55% |
| Board of Education | 14.42% | 11.87% |
| Municipal Services | 40.66% | 30.74% |
| Library | 24.03% | 20.90% |

Please see Section I of the attached report for analysis and discussion regarding the changes in the contribution requirements from last year to this year, as well as expectations for future increases.

Actuarial and Benefits Consulting Defined Benefit Plan Services Postretirement Health Valuations **Defined Contribution Plan Services** Internet Retirement Solutions 401(k), 403(b), ESOP Investment Advisory Services Pension Portfolio Advisory DC Investment Oversight hhconsultants.com p: (860) 521-8400 f: (860) 521-3742 Page 2 March 18, 2011 Mr. Adam Cloud, Secretary *Re: 2010 MERF Actuarial Survey*

As always, I am available to answer any questions you or the Pension Commission may have.

Sincerely,

Elizabeth J. Churney

Elizabeth J. Churney

/aps Enclosure Copy with enclosure: Donna P. Parker

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65 LaSalle Road West Hartford, CT 06107-2397 860-521-8400 tel 860-521-3742 fax www.hhconsultants.com

City of Hartford Municipal Employees' Retirement Fund (MERF)

Actuarial Survey

July 1, 2010

Elizabeth J. Churney, F.S.A., MAAA Consulting Actuary

Scott B. Moss, A.S.A. Pension Analyst

March 18, 2011

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Valuation Report

A. Purpose of the Valuation

The purpose of the valuation is to determine the funded status of the plan as well as the recommended cash contribution for the plan year. The information found in Section II of the report has been developed for this purpose.

The ultimate cost of a pension plan is based primarily on the level of benefits promised by the plan. The pension fund's investment earnings serve to reduce the cost of plan benefits and expenses. Thus,

| City's ultimate | = | benefits | + | expenses | - | investment | - | employee | |
|-----------------|---|----------|---|----------|---|------------|---|---------------|--|
| cost | | paid | | incurred | | return | | contributions | |

B. Contribution for 2011-2012 Fiscal Year

The City's contribution rates for the 2011-2012 fiscal year, determined from the July 1, 2010 actuarial valuation, are shown below. Last year's results are shown for comparison purposes.

| | Recommended 2011-2012 Fiscal Year Contribution (July 1, 2010 Valuation) | Recommended 2010-2011 Fiscal Year Contribution (July 1, 2009 Valuation) |
|--------------------|--|--|
| Police | 17.91% | 9.94% |
| Firefighters | 11.30% | 1.55% |
| Board of Education | 14.42% | 11.87% |
| Municipal Services | 40.66% | 30.74% |
| Library | 24.03% | 20.90% |

Please see Section II, Exhibit A for the development of these figures.

It is important to note that the recommended City contribution is expressed as a percentage of the payroll for each of the five groups of employees covered by the plan: Police, Firefighters, Board of Education, Municipal Services (general government employees), and Library. Each of those percentages is then applied against the *estimated* payroll for each group for the next fiscal year, to yield an *estimated* dollar amount of the cash contribution required. Importantly, while the percentages of payroll will not change because they are actuarially determined, the dollar amount of the City's *actual* required contribution will change -- upward or downward -- depending on whether *actual* payrolls in the fiscal year are more, or less, than currently estimated.

Valuation Report (continued)

As can be seen, the percentages of payroll on which estimated contributions have been based have increased considerably from last year for all groups. Based on an estimated payroll of approximately \$145.2 million for fiscal year 2011-2012 (obtained by projecting the payroll provided with the July 1, 2010 actuarial valuation to fiscal year 2011-2012 using the valuation's assumed rate of salary increase), the estimated dollar amount of the City's contribution for such year is approximately \$28.5 million.

By comparison, using payroll estimates for fiscal year 2010-2011 of approximately \$143.1 million, the approximate dollar amount of the City's contribution for the 2010-2011 fiscal year is \$18.3 million. Thus, the 2011-2012 fiscal year contribution represents an estimated \$10.3 million increase from the previous year, or approximately 56%.

The primary reason for this increase in the recommended contribution requirement for fiscal year 2011-2012 is the continued recognition of the decline in the capital markets that occurred within the 2007-2008 and 2008-2009 fiscal years, with the resulting loss of market value of MERF assets during that period. The net impact of changes in the covered population also served to increase the contribution, although to a lesser extent.

The market value of assets increased from \$861.7 million to \$888.6 million, resulting in an asset return of approximately 11.1% over that period. In order to avoid dramatic fluctuations in contribution requirements with such large swings in the market, a "smoothed" or "actuarial" value of assets is used to perform the valuation. This smoothed value recognizes the difference between the expected return on the market value of assets and the actual return over a 5-year period at 20% per year.

As of July 1, 2010, the actuarial value of assets used in the development of the contribution requirement was approximately \$1,041.6 million, \$153.0 million higher than the market value of assets of \$888.6 million at such date. The return for the year on the actuarial value was 1.7% as opposed to the 11.1% return on the market value. Since this 1.7% is less than the MERF's 8% return assumption, asset losses were generated that increased the fiscal year 2011-2012 contribution requirement. Specifically, these losses represented approximately \$7.5 million of the \$10.3 million estimated increase and were therefore the primary driver of the increase in estimated contributions for fiscal year 2011-2012.

Valuation Report

(continued)

Future Contribution Requirements

The use of a smoothed (actuarial) value of assets is meant to produce a more level funding pattern, given asset volatility. With a drop in the market, asset losses are spread over a five-year period, leveling out the recommended funding rather than providing for a spike in contribution requirements in one year. As of July 1, 2010, there were approximately \$153.0 million in net unrecognized asset losses that eventually need to be recognized in future City contribution requirements because of the use of this smoothing method. Given this level of unrecognized losses, future contribution increases can be expected for the 2012-2013 fiscal year, absent other significant changes.

To provide a sense of the level of expected future contributions, an estimate for the 2012-2013 fiscal year has been calculated. Specifically, the City's estimated recommended contribution for such fiscal year is currently \$38.6 million. This figure is based on a projected market value of assets at July 1, 2011 of \$893.1 million, determined by projecting assets as of July 1, 2010 to June 30, 2011 assuming an 8% return. In addition, estimates of payroll for fiscal year 2012-2013 payroll of \$152.5 million were used. Projected plan liabilities inherent in this calculation were based on the results of the July 1, 2010 valuation, including the assumptions, methods, and census data as of such date. Further, this figure reflects an estimate of the cost of the early retirement incentive program of 2010 but not 2011.

The actual 2012-2013 contribution requirement will be based upon final liabilities and assets as of July 1, 2011, as well as actual payroll for the 2012-2013 fiscal year. To provide some sensitivity of the contribution to asset values, if the market value of assets as of July 1, 2010 is approximately \$100 million higher at \$993.1 million, the contribution estimate decreases by \$2.4 million to \$36.2 million.

Funding requirements for fiscal year 2013-2014 are expected to increase even further as asset losses are fully phased into the smoothed value of assets. The extent of the increase will depend upon market returns after July 1, 2010, among other factors.

C. Funded Status

The funded status of the plan as of July 1, 2010 is summarized below. The figures are prepared in accordance with the requirements of the Governmental Accounting Standards Board, or GASB, and are useful in accessing the health of the plan overall.

Valuation Report

(continued)

Specifically, the funded status is based on the smoothed (actuarial) value of assets used in the valuation, as well as a measure of the plan's liability known as the Actuarial Accrued Liability. The Actuarial Accrued Liability is the liability for benefits expected to be paid from the plan for inactive participants, as well as the liability for future expected benefit payments for active participants. For actives, the liability measure includes the impact of assumed future salary increases on projected benefits, but includes only that portion of their overall liability attributable to services rendered as of the valuation date.

| J | uly | 1, | 20 | 10 |
|----------|-----|----|----|----|
| . | | | | |

| \$1,175,040,000 |
|----------------------|
| <u>1,041,572,000</u> |
| 133,468,000 |
| 88.6% |
| |

During the 2009-2010 fiscal year, the plan's funded status dropped from 96.6% as of July 1, 2009 to 88.6% as of July 1, 2010, as detailed above. Despite the fact that the City fully funded the recommended contribution for the year, asset growth did not keep pace with liability growth, resulting in the decline in the funded status. This is primarily the result of the asset losses on the smoothed (actuarial) value of assets previously discussed.

Even with a funded status of less than 100%, the plan is still in a healthy, well-funded position with the ability to pay benefits due at the current 88.6% level. It is not the intent of the plan's funding method to fully fund such shortfalls in just one year. Absent other significant changes, such underfunding will be eliminated over a period of years as it is spread into future contribution requirements.

D. Plan Experience During Period Under Review

As discussed earlier, the recommended City contribution rate for the 2011-2012 fiscal year has increased from last year for all groups. As a result, the dollar amount of the City's contribution is expected to increase by approximately \$10.3 million based on current estimates of payroll.

Also as previously discussed, the market value of assets returned 11.1% over the 2009-2010 fiscal year. The smoothed (actuarial) value of assets prior to the change in method earned a return of approximately 1.7% during the same fiscal period. The resulting asset loss generated from a return less than the 8.0% expected accounted for approximately \$7.5 million of the estimated \$10.3 million increase in contribution.

Valuation Report

(continued)

Since there were no plan or assumption changes reflected with this actuarial valuation, all of the remaining \$2.8 million increase, is attributable to changes in the plan's population and the resulting impact on plan liabilities. Despite the decrease in active membership of the MERF (from 2,406 as of July 1, 2009 to 2,206 as of July 1, 2010) and the corresponding drop in total payroll, changes in the population increased costs. This was due to items such as salaries increasing by more than expected for continuing actives, and the net impact of retirements, terminations and deaths. Key drivers of this increase include the impact of participants living longer than expected on average (approximately \$1.2 of the increase) and new retirements during the year, including the 2009 Early Retirement Incentive (approximately \$1 million of the increase).

E. Changes Since The Last Valuation

There were no plan changes or assumption changes reflected with this valuation.

Valuation Report (continued)

F. Certification

The results of this valuation are based on financial, personnel and payroll data furnished to us by the City and unaudited by us as of July 1, 2010.

In my opinion, and to the best of my knowledge, this Report presents fairly the financial and actuarial position of the City of Hartford Municipal Employees' Retirement Fund (MERF) as of July 1, 2010. The actuarial present values shown have been estimated on the basis of actuarial assumptions which, in my opinion, are appropriate for the purposes of the Report, are reasonable in the aggregate (taking into account the experience of the Plan and reasonable expectations), and, when applied in combination, represent my best estimate of the measure of anticipated experience under the Plan.

I believe that this Report meets the requirements of Public Act No. 77-468, An Act Requiring Periodic Actuarial Evaluation of Municipal Pension Plans.

I am a member of the American Academy of Actuaries and meet its Qualification Standards to render the actuarial opinion contained herein.

HOOKER & HOLCOMBE, INC.

Elizabeth J. Churney

Enrolled Actuary

March 18, 2011

Supporting Exhibits

A. Normal Cost

| | | July 1, 2010 Valuation | | | | | |
|---|-----------------|------------------------|-----------------|-----------------------|---------------|---------------------|--|
| | Police | Fire | Board of Ed. | Municipal Services | Library | Total Membership | |
| Active Membership | | | | | | | |
| Number of Employees Annual Payroll (000) | 465 \$33,801 | 359 \$28,698 | 895 \$38,679 | 456 \$27,011 | 71 \$4,341 | 2,246 \$132,529 | |
| Normal Actuarial Costs | | | | | | | |
| A. Actuarial Present Value of Future Benefits (000) | | | | | | | |
| Active Members | \$135,019 | \$143,511 | \$117,059 | \$110,159 | \$14,787 | \$520,534 | |
| Terminated Non-Vested Members | 144 | 153 | 124 | 117 | 16 | 553 | |
| Terminated Vested Members | 1,097 | 594 | 6,451 | 6,374 | 267 | 14,784 | |
| Retired Members | 274,405 | 188,662 | 99,487 | 251,054 | 13,356 | 826,964 | |
| Old Plans COLA | <u>455</u> | <u>263</u> | <u>296</u> | <u>6</u> | <u>0</u> | <u>1,020</u> | |
| Total | \$411,119 | \$333,183 | \$223,417 | \$367,709 | \$28,426 | \$1,363,855 | |
| B. Actuarial Value of Assets (000) | \$324,114 | \$288,248 | \$150,007 | \$261,816 | \$17,386 | \$1,041,572 | |
| C. Actuarial Present Value of Future Employee Contributions (000) | \$24,920 | \$20,940 | \$21,079 | \$13,284 | \$1,743 | \$81,967 | |
| D. Actuarial Present Value of Future Normal Costs (A) - (B) - (C) (000) | | \$23,994 | \$52,330 | \$92,610 | \$9,297 | \$240,316 | |
| E. Actuarial Present Value of Future Salaries (000) | \$391,876 | \$257,279 | \$389,293 | \$241,515 | \$40,570 | \$1,320,533 | |
| F. Normal Actuarial Costs as Percentage of Payroll | | | | | | | |
| Pension Benefits (D)/(E)* | 15.84% | 9.33% | 13.44% | 38.35% | 22.92% | 18.20% | |
| G. Expenses (other than Investment Expenses) | <u>2.07%</u> | <u>1.97%</u> | <u>0.98%</u> | <u>2.31%</u> | <u>1.11%</u> | <u>1.75%</u> | |
| Total Normal Cost Percent Payabl by City | e 17.91% | 11.30% | 14.42% | 40.66% | 24.03% | 19.95% | |

* Based on \$2,319,000 estimate of expenses (other than investment expenses) allocated by present value of future benefits.

Supporting Exhibits

(continued)

B. Estimated Cash Contribution

The cash contribution for fiscal year 2011-2012 detailed below is estimated based upon payroll data provided with the July 1, 2010 actuarial valuation projected to fiscal year 2011-2012 using the valuation's assumed rate of salary increase. **The actual contribution will be based upon actual payroll figures for fiscal year 2011-2012.** To illustrate the sensitivity of the cash contribution to changes in payroll, the second table below details the estimated fiscal year 2011-2012 contribution assuming payroll is either 5% higher or 5% lower than this estimate.

| | Estimated July 1, 2011 - June 30, 2012 Fiscal Year Contribution | | | | | | |
|---|---|--------------|--------------|-----------------------|-------------|---------------|--|
| | Police | Fire | Board of Ed | Municipal Services | Library | Total | |
| (1) Estimated Annual Adjusted Payroll for 2011-2012 Fiscal Year | \$37,173,655 | \$31,198,596 | \$42,124,354 | \$29,919,958 | \$4,814,104 | \$145,230,667 | |
| (2) Total Normal Cost Percent Payable by City | 17.91% | 11.30% | 14.42% | 40.66% | 24.03% | | |
| (3) Gross City Contribution:(1) x (2) | 6,657,802 | 3,525,441 | 6,074,332 | 12,165,455 | 1,156,829 | 29,579,859 | |
| (4) July 1, 2010 Payment for Local 566 | 0 | 0 | 303,918 | . 0 | 0 | 303,918 | |
| (5) July 1, 2010 Payment for Local 1716 | 0 | 0 | 0 | 509,126 | 0 | 509,126 | |
| (6) Old Plans COLA Annual Payment | 104,753 | 63,040 | 70,119 | 1,602 | 0 | 239,514 | |
| (7) Net City Contribution Estimate: (3)-(4)-(5)-(6) | \$6,553,049 | \$3,462,401 | \$5,700,295 | \$11,654,727 | \$1,156,829 | \$28,527,301 | |
| | 2011 - 2012 Contribution Sensitivity | | | | | | |

| | 2011 - 2012 Contribution Sensitivity | | | | | | | |
|---|--------------------------------------|--------------|--------------|-----------------------|-------------|---------------|--|--|
| | Police | Fire | Board of Ed | Municipal Services | Library | Total | | |
| Estimated 2011-2012 Fiscal Year Payroll +5% | \$39,032,338 | \$32,758,526 | \$44,230,572 | \$31,415,956 | \$5,054,809 | \$152,492,201 | | |
| Net City Contribution Estimate for 2011-2012 | 6,885,939 | 3,638,673 | 6,004,012 | 12,263,000 | 1,214,670 | 30,006,294 | | |
| Estimated 2011-2012 Fiscal Year Payroll -5% | 35,314,972 | 29,638,666 | 40,018,136 | 28,423,960 | 4,573,399 | 137,969,133 | | |
| Net City Contribution Estimate for 2011-2012 | 6,220,159 | 3,286,129 | 5,396,578 | 11,046,454 | 1,098,988 | 27,048,308 | | |

Supporting Exhibits (continued)

C. Actuarial Balance Sheet

| | July 1, 2010 | July 1, 2009 |
|---|-----------------|-----------------|
| Actuarial Liabilities Present Value of Future Benefits for: | | |
| Active Employees | \$ 520,534,299 | \$ 528,188,244 |
| Inactive Members | | |
| Regular Retirees | 745,301,637 | 694,074,400 |
| • Disability Retirees | 54,836,908 | 54,882,411 |
| Survivors | 26,825,376 | 28,804,110 |
| Terminated Non-Vesteds | 553,450 | 553,450 |
| Terminated Vesteds | 14,783,544 | 17,236,150 |
| Old Plans COLA | 1,019,671 | 1,217,781 |
| TOTAL | \$1,363,854,885 | \$1,324,956,546 |
| Source of Funds | | |
| Actuarial Value of Assets Present Value of Future Employee | \$1,041,572,175 | \$1,089,183,892 |
| Contributions | 81,966,582 | 82,534,553 |
| 3. Present Value of Future City Normal | | |
| Cost Contributions | 240,316,128 | 153,238,101 |
| 4. TOTAL = $(1) + (2) + (3)$ | \$1,363,854,885 | \$1,324,956,546 |

Supporting Exhibits

(continued)

D. Development of Asset Values

The Actuarial Value of assets is used in the determination of plan contributions. It phases in recognition of asset gains and losses. A method of smoothing is used because the Market Value can swing widely from one year to the next, resulting in undesirable fluctuations in pension contributions. The smoothing is accomplished by recognizing asset gains and losses over a five-year period at 20% per year.

| Relationship of Actuarial Value to Market Va | alue | |
|--|------|---------------|
| 1. Market value 7/1/2010 | \$ | 888,582,990 |
| 2. Gain / (loss) not recognized in actuarial value 7/1/2010 | | (152,989,185) |
| 3. Preliminary actuarial value 7/1/2010: (1)-(2) | | 1,041,572,175 |
| 4. Preliminary actuarial value as a percentage of market value: $(3)\div(1)$ | | 117.2% |
| 5. Gain / (loss) recognized for corridor min/max | | N/A |
| 6. Actuarial value 7/1/2010 after corridor min/max: (3)+(5) | | 1,041,572,175 |
| 7. Actuarial value as a percentage of market value: $(6) \div (1)$ | | 117.2% |

| Development of Asset Gain / (Loss) for 2009-2010 Plan Year | | | | | | |
|--|----|-------------|--|--|--|--|
| 1. Market value 7/1/2009 | \$ | 861,706,321 | | | | |
| 2. Contributions | | 22,465,391 | | | | |
| 3. Benefit payments | | 85,543,296 | | | | |
| 4. Administrative expenses | | 2,455,416 | | | | |
| 5. Expected return at 8.00% | | 66,387,138 | | | | |
| 6. Expected value 7/1/2010: (1)+(2)-(3)-(4)+(5) | | 862,560,138 | | | | |
| 7. Market value 7/1/2010 | | 888,582,990 | | | | |
| 8. Asset gain / (loss) for -1 Plan Year: (7)-(6) | | 26,022,852 | | | | |

| | Recognition of Gain / (Loss) in Actuarial Value | | | | | | | |
|-----------|--|---------------------------|--|--|--|--|--|--|
| | (a) | (b) | (c) | (d) | (e) | | | |
| Year | Gain / (loss) | Recognized as of 7/1/2009 | Recognized in current year: 20% of (a) | Total recognized as of 7/1/2010: (b)+(c) | Not recognized as of 7/1/2010: (a)–(d) | | | |
| 2005-2006 | \$ 6,782,904 | \$ 5,426,324 | \$ 1,356,580 | \$ 6,782,904 | \$0 | | | |
| 2006-2007 | 77,566,647 | 46,539,987 | 15,513,329 | 62,053,316 | 15,513,331 | | | |
| 2007-2008 | (111,496,189) | (44,598,476) | (22,299,238) | (66,897,714) | (44,598,475) | | | |
| 2008-2009 | (241,203,873) | (48,240,775) | (48,240,775) | (96,481,550) | (144,722,323) | | | |
| 2009-2010 | 26,022,852 | 0 | 5,204,570 | 5,204,570 | 20,818,282 | | | |
| Total | | | (48,465,534) | | (152,989,185) | | | |

Supporting Exhibits (continued)

D. Development of Asset Values

| | Summary of H | Fund Activity | | |
|----|---|----------------------------------|---|---|
| | | Market Valu | e | Actuarial Value |
| 1. | Beginning value 7/1/2009 a. Trust assets b. Accrued contribution c. Benefits payable d. Administrative expenses payable e. Net: (a)+(b)-(c)-(d) | \$ 861,706,3 <u>861,706,3</u> | 0 0 0 | \$ 1,089,183,892 0 0 0 1,089,183,892 |
| 2. | Contributions a. Contributions during year b. Change in accrued contribution c. Total for plan year | 22,465,3 | 91 | 22,465,391 0 22,465,391 |
| 3. | Disbursements a. Benefit payments during year b. Administrative expenses during year c. Change in benefits payable d. Change in administrative expenses payable e. Total for plan year | 85,543,2 2,455,4 87,998,7 | 16 0 0 | 85,543,296 2,455,416 0 87,998,712 |
| 4. | Net investment return a. Interest and dividends b. Change in accrued income c. Realized gain (loss) d. Unrealized gain (loss) e. Expected return f. Recognized gain (loss) g. Required adjustment due to corridor h. Reversal of prior year required adjustment i. Investment-related expenses j. Total | N N | 0 77 58 //A //A //A //A (/A 64) | N/A N/A N/A 66,387,138 (48,465,534) 0 0 0 N/A 17,921,604 |
| | Ending value 7/1/2010 a. Trust assets: (1a)+(2a)-(3a)-(3b)+(4j) b. Accrued contribution c. Benefits payable d. Administrative expenses payable e. Net: (a)+(b)-(c)-(d) Approximate rate of return 2009-2010 | 888,582,9 | 0 0 0 | 1,041,572,175 0 0 1,041,572,175 1.7% |
| | Rate of return for Form 5500, Schedule B: 2x(4j)÷[(1e)+(5e)-(4j)] | N | i/A | 1.7% |

Supporting Exhibits (continued)

D. Development of Asset Values

| | Rate of Return on Market Value of Assets | | | | | | | |
|--------------------------|--|---|---------|----------|--|--|--|--|
| | Av | Average Annual Effective Rate of Return | | | | | | |
| Period Ending June 30 | 1 Year | 3 Years | 5 Years | 10 Years | | | | |
| 2001 | -2.1% | 5.6% | 10.9% | N/A | | | | |
| 2002 | -3.1% | 1.1% | 6.1% | N/A | | | | |
| 2003 | 4.6% | -0.3% | 3.6% | 8.7% | | | | |
| 2004 | 14.6% | 5.1% | 4.3% | 9.9% | | | | |
| 2005 | 9.1% | 9.4% | 4.4% | 9.3% | | | | |
| 2006 | 8.7% | 10.8% | 6.6% | 8.7% | | | | |
| 2007 | 15.6% | 11.1% | 10.4% | 8.3% | | | | |
| 2008 | -1.9% | 7.2% | 9.0% | 6.3% | | | | |
| 2009 | -15.0% | -1.2% | 2.7% | 3.5% | | | | |
| 2010 | 11.1% | -2.5% | 3.1% | 3.7% | | | | |

Supporting Exhibits (continued)

E. Accounting Information

GASB Statements No. 25 and 27

The following information is based on the Governmental Accounting Standards Board (GASB) Statement No. 25 on "Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans" and Statement No. 27 on "Accounting for Pensions by State and Local Governmental Employers". It represents a summary of information detailed further within the MERF's annual GASB report. The exhibits are provided for information purposes only here.

In reviewing the following exhibit regarding employer contributions, it is important to note that for the fiscal years ending 2007 through 2010, the City contributed more than the recommended Annual Required Contribution (ARC). This is due to a catch up period in which the City has been making contributions for prior fiscal years in which there was a shortfall in the amount contributed. The footnotes below provide further detail.

| Year Ended June 30 | Annual Required Contribution | Percentage Contributed | Actual Contribution Received by MERF | Miscellaneous * | Net Percentage Contributed |
|-----------------------|------------------------------------|---------------------------|---|-----------------|----------------------------------|
| 2005** | 9,336,898 | 99% | 9,000,000 | 206,742 | 96% |
| 2006** | 17,033,102 | 70% | 11,765,350 | 183,037 | 69% |
| 2007 | 14,328,866 | 115% | 16,317,266*** | 163,749 | 114% |
| 2008 | 13,252,745 | 125% | 16,454,745 | 129,258 | 124% |
| 2009 | 11,797,419 | 109% | 12,713,915**** | 115,067 | 108% |
| 2010 | 9,601,580 | 113% | 10,727,385 | 112,662 | 112% |

Schedule of Employer Contributions

* Funds transferred from State of Connecticut's Connecticut Municipal Employees' Retirement System (CMERS) and Aetna annuity payments.

** Revised.

*** 2006-2007 fiscal year contribution includes contributions paid for prior fiscal years during the 2006-2007 fiscal year as follows: FY 00-01 \$117,500, FY 02-03 \$2,198, FY 03-04 \$180,876, FY 04-05 \$130,156, FY 05-06 \$5,084,715. After the June 30, 2006 GASB reporting period closed, two contributions of \$1,572,500 and \$1,490,242 were made to the Plan for the 2006-2007 fiscal year. These amounts are not included in the \$16,317,266 fiscal year 2006-2007 contribution listed above. They will be included in the 2007-2008 fiscal year contributions listed in the June 30, 2008 GASB report.

**** Contribution includes \$1,031,484 in contributions paid for the prior fiscal year (2007/2008) after the 06/30/2008 reporting period closed.

Supporting Exhibits (continued)

E. Accounting Information

As detailed below, the plan's funded status dropped from 96.6% as of July 1, 2009 to 88.6% as of July 1, 2010. Despite the fact that the City fully funded the recommended contribution for the year, asset growth did not keep pace with liability growth, resulting in the decline in the funded status. This is primarily the result of the asset losses on the Actuarial Value of Assets during the year previously discussed.

Even with a funded status of less than 100%, the plan is still in a healthy, well-funded position at the current 88.6% level with the ability to pay benefits due.

| Actuarial Valuation Date | Actuarial Value of Assets * (a) | Actuarial Accrued Liability (AAL) ** (b) | Unfunded AAL (UAAL) (b-a) | Funded Ratio (a÷b) | Covered Payroll (c) | UAAL as a % of Covered Payroll ((b-a)÷c) |
|--------------------------------|---------------------------------------|--|------------------------------------|--------------------------|---------------------------|--|
| 7/1/2005 | 986,405,000 | 970,286,000 | (16,119,000) | 101.7% | 117,261,000 | -13.7% |
| 7/1/2006 | 1,021,491,000*** | 1,002,848,000 | (18,643,000) | 101.9% | 124,837,000 | -14.9% |
| 7/1/2007 | 1,092,128,000*** | 1,090,715,000 | (1,413,000) | 100.1% | 133,280,000 | -1.1% |
| 7/1/2008 | 1,123,379,000 | 1,099,441,000 | (23,938,000) | 102.2% | 139,243,000 | -17.2% |
| 7/1/2009 | 1,089,184,000 | 1,126,965,000 | 37,781,000 | 96.6% | 134,143,000 | 28.2% |
| 7/1/2010 | 1,041,572,000 | 1,175,040,000 | 133,468,000 | 88.6% | 132,529,000 | 100.7% |

Excludes receivable from CMERS (applicable for 7/1/2005 only; no longer applicable 7/1/2006+).

** Liability shown determined using the projected unit credit cost method 7/1/2005-7/1/2006 and the entry age normal cost method as of 7/1/2007.

***Excludes estimated City contribution receivable of \$5,463,745 as of July 1, 2007 and \$7,022,224 as of July 1, 2006. These receivable amounts were fully paid by the City as of July 1, 2008.

Supporting Exhibits

(continued)

F. Membership Data

Summary – Active Members as of July 1, 2010

| | Number | Payroll* | Average Annual Pay* |
|--------------------|--|----------------------|------------------------|
| Police | $ \begin{array}{r} 465 \\ 359 \\ 895 \\ 456 \\ \overline{71} \\ \overline{2,246} \end{array} $ | \$ 33,800,796 | \$72,690 |
| Firefighters | | 28,697,917 | 79,938 |
| Board of Education | | 38,678,961 | 43,217 |
| Municipal Services | | 27,011,021 | 59,235 |
| Library | | <u>4,340,771</u> | <u>61,138</u> |
| Total | | \$132,529,466 | \$59,007 |

*Basic salary, plus overtime, plus Fire private duty pay.

Summary – Pensioners as of July 1, 2010

| | Service Pensions* | | Disability Pensions | | Survivor Benefits* | | Total | |
|-----------------|-------------------|-------------------------------|------------------------|-------------------------------|-----------------------|-------------------------------|----------------|-------------------------------|
| | Count | Total Monthly Annuities | Count | Total Monthly Annuities | Count | Total Monthly Annuities | Count | Total Monthly Annuities |
| Police | 496 | \$1,978,739 | 58 | \$138,395 | 72 | \$80,029 | 626 | \$2,197,163 |
| Firefighters | 331 | 1,262,817 | 115 | 309,871 | 99 | 106,889 | 545 | 1,679,577 |
| Board of Ed. | 636 | 891,317 | 20 | 12,321 | 59 | 25,147 | 715 | 928,785 |
| Municipal Svcs. | 759 | 2,085,017 | 14 | 12,357 | 90 | 66,820 | 863 | 2,164,194 |
| Library | 58 | 123,585 | 0 | 0 | 1 | 185 | 59 | 123,770 |
| Vested Deferred | <u> 189</u> | 219,898 | | | | | <u> 189</u> | 219,898 |
| TOTAL** | 2,469 | \$6,561,373 | 207 | \$472,944 | 321 | \$279,070 | 2,997 | \$7,313,387 |

* Seven pensioners receiving benefits as retirees and as survivors are included in both groups.

** Additional monthly benefits for the July 1, 1987, July 1, 1990, July 1, 1997, July 1, 1999, July 1, 2001, July 1, 2005, and July 1, 2007 COLA's for the unfunded plans (PBF, FRF, and RAF) are also included in the total liabilities for MERF. Such participants are not included in the counts shown here.

Supporting Exhibits (continued)

F. Membership Data

Data Reconciliation – Police

| Participant Data | | | | | | | |
|-----------------------------|--------------|----------------------|--------------------------|-------|--|--|--|
| | Active | Terminated Vested | Pensioners* | Total | | | |
| Total Participants 7/1/2009 | 463 | 9 | 587 | 1,059 | | | |
| Adjustments | 0 | 0 | 0 | 0 | | | |
| Retirements | -25 | -5 | +30 | 0 | | | |
| Disabilities | 0 | 0 | 0 | 0 | | | |
| Terminations | | | | | | | |
| Vested | 0 | 0 | N/A | 0 | | | |
| Non-vested | _4 | N/A | N/A | -4 | | | |
| Deaths | -2 | 0 | -15 | -17 | | | |
| New beneficiaries | N/A | 0 | +24 | +24 | | | |
| Transfer group | 0 | 0 | 0 | 0 | | | |
| Rehires | 0 | 0 | 0 | 0 | | | |
| New entrants | +33 | <u>_N/A</u> | <u>_N/A</u> | +33 | | | |
| Total Participants 7/1/2010 | 465 | 4 | 626 | 1,095 | | | |
| Average Age | | | | | | | |
| 7/1/2009 | 37.3 | | | | | | |
| 7/1/2010 | 37.3 | | | | | | |
| Average Service | | | | | | | |
| 7/1/2009 | 9.3 | | | | | | |
| 7/1/2010 | 9.0 | | | | | | |
| Payroll** | | | | | | | |
| 7/1/2009 | \$34,361,016 | | | | | | |
| 7/1/2010 | 33,800,796 | | | | | | |
| Total monthly benefits* | | | | | | | |
| 7/1/2009 | | \$26,716 | \$2,019,046 | | | | |
| 7/1/2010 | | \$20,710 9,291 | \$2,019,048 2,197,163 | | | | |

* Excludes old plan COLA participants.
** Basic salary plus overtime and private duty pay.

Supporting Exhibits (continued)

F. Membership Data

Data Reconciliation – Firefighters

| Participant Data | | | | | | |
|-----------------------------|--------------|----------------------|-------------|---------|--|--|
| | Active | Terminated Vested | Pensioners* | Total | | |
| Total Participants 7/1/2009 | 371 | 2 | 542 | 915 | | |
| Adjustments | -1 | 0 | 0 | -1 | | |
| Retirements | -10 | -1 | +11 | 0 | | |
| Disabilities | 0 | 0 | 0 | 0 | | |
| Terminations | | | | | | |
| Vested | -2 | +2 | N/A | 0 | | |
| Non-vested | 0 | N/A | N/A | 0 | | |
| Deaths | -1 | 0 | -21 | -22 | | |
| New beneficiaries | N/A | 0 | +13 | +13 | | |
| Transfer group | 0 | 0 | 0 | 0 | | |
| Rehires | 0 | 0 | 0 | 0 | | |
| New entrants | <u>+2</u> | <u>_N/A</u> | <u>N/A</u> | _+2 | | |
| Total Participants 7/1/2010 | 359 | 3 | 545 | 907 | | |
| Average Age | | | | | | |
| 7/1/2009 | 41.2 | | | | | |
| 7/1/2010 | 41.8 | | | | | |
| Average Service | | | | | | |
| 7/1/2009 | 14.1 | | | | | |
| 7/1/2010 | 14.1 | | | | | |
| | 14.0 | | | <u></u> | | |
| Payroll** | | | | | | |
| 7/1/2009 | \$27,716,992 | | | | | |
| 7/1/2010 | 28,697,917 | | | | | |
| Total monthly benefits* | | | | | | |
| 7/1/2009 | | \$ 1,614 | \$1,649,066 | | | |
| 7/1/2010 | | 7,589 | 1,679,577 | | | |

* Excludes old plan COLA participants.

** Basic salary plus overtime and private duty pay.

Supporting Exhibits (continued)

F. Membership Data

Data Reconciliation - Board of Education

| | Participar | nt Data | | |
|-----------------------------|--------------|----------------------|-------------|-------|
| | Active | Terminated Vested | Pensioners* | Total |
| Total Participants 7/1/2009 | 1,019 | 85 | 697 | 1,801 |
| Adjustments | 0 | 0 | 0 | 0 |
| Retirements | -9 | -13 | +22 | 0 |
| Disabilities | 0 | 0 | 0 | 0 |
| Terminations | | | | |
| Vested | -42 | +42 | N/A | 0 |
| Non-vested | -97 | N/A | N/A | -97 |
| Deaths | -1 | -2 | -28 | -31 |
| New beneficiaries | N/A | 0 | +24 | +24 |
| Transfer group | 0 | 0 | 0 | 0 |
| Rehires | 0 | 0 | 0 | 0 |
| New entrants | +25 | <u>_N/A</u> | <u>_N/A</u> | +25 |
| Total Participants 7/1/2010 | 895 | 112 | 715 | 1,722 |
| Average Age | | | | |
| 7/1/2009 | 45.7 | | | |
| 7/1/2010 | 47.0 | | | |
| Average Service | | | | |
| 7/1/2009 | 9.7 | | | |
| 7/1/2010 | 11.1 | | | |
| Payroll** | | | | |
| 7/1/2009 | \$39,925,732 | | | |
| 7/1/2010 | 38,678,961 | | | |
| Total monthly benefits* | | | | |
| 7/1/2009 | | \$94,512 | \$889,938 | • |
| 7/1/2010 | | 107,838 | 928,785 | |

* Excludes old plan COLA participants.
** Basic salary plus overtime and private duty pay.

Supporting Exhibits

(continued)

F. Membership Data

Data Reconciliation – Municipal Services

| | Participar | nt Data | | |
|--------------------------------|--------------|----------------------|-------------|--|
| | Active | Terminated Vested | Pensioners* | Total |
| Total Participants 7/1/2009 | 479 | 65 | 847 | 1,391 |
| Adjustments | 0 | 0 | 0 | 0 |
| Retirements | -34 | -15 | +49 | 0 |
| Disabilities | 0 | 0 | 0 | 0 |
| Terminations | | | | |
| Vested | -16 | +16 | N/A | 0 |
| Non-vested | -20 | N/A | N/A | -20 |
| Deaths | 0 | 0 | -47 | -47 |
| New beneficiaries | N/A | 0 | +16 | +16 |
| Transfer group | 0 | 0 | 0 | 0 |
| Rehires | +2 | 0 | -2 | 0 |
| New entrants | +45 | <u>N/A</u> | <u>N/A</u> | +45 |
| Total Participants 7/1/2010 | 456 | 66 | 863 | 1,385 |
| Avenaça Aga | | | | |
| Average Age 7/1/2009 | 49.0 | | | |
| 7/1/2010 | 49.0 | | | |
| //1/2010 | 49.1 | | | · _ _ · · · · · · · · · · · · · · · · · · · |
| Average Service | | | | |
| 7/1/2009 | 11.8 | | | |
| 7/1/2010 | 11.5 | | | |
| Payroll** | | | | |
| 7/1/2009 | \$27,884,353 | | | |
| 7/1/2010 | 27,011,021 | | | |
| | | | | <u> </u> |
| Total monthly benefits* | | | | |
| 7/1/2009 | | \$75,178 | \$2,065,351 | |
| 7/1/2010 | | 92,100 | 2,164,194 | |

* Excludes old plan COLA participants.
** Basic salary plus overtime and private duty pay.

Supporting Exhibits

(continued)

F. Membership Data

Data Reconciliation – Library

| Participant Data | | | | | | | |
|-----------------------------|-------------|----------------------|-------------|----------|--|--|--|
| | Active | Terminated Vested | Pensioners* | Total | | | |
| Total Participants 7/1/2009 | 74 | 3 | 58 | 135 | | | |
| Adjustments | 0 | 0 | 0 | 0 | | | |
| Retirements | -1 | 0 | +1 | 0 | | | |
| Disabilities | 0 | 0 | 0 | 0 | | | |
| Terminations | | | | | | | |
| Vested | -1 | +1 | N/A | 0 | | | |
| Non-vested | -4 | N/A | N/A | -4 | | | |
| Deaths | 0 | 0 | -2 | -4 -2 | | | |
| New beneficiaries | N/A | 0 | +2 | +2 | | | |
| Transfer group | 0 | 0 | 0 | 0 | | | |
| Rehires | 0 | 0 | 0 | 0 | | | |
| New entrants | +3 | <u>N/A</u> | <u>_N/A</u> | +3 | | | |
| Total Participants 7/1/2010 | 71 | 4 | 59 | 134 | | | |
| A | | | | | | | |
| Average Age | 45.7 | | | | | | |
| 7/1/2009 | 1 | | | | | | |
| 7/1/2010 | 46.9 | | | | | | |
| Average Service | | | | | | | |
| 7/1/2009 | 11.9 | | | | | | |
| 7/1/2010 | 12.8 | | | | | | |
| Payroll** | | | | | | | |
| 7/1/2009 | \$4,254,409 | | | | | | |
| 7/1/2010 | 4,340,770 | | | | | | |
| Total monthly benefits* | | | | | | | |
| 7/1/2009 | | \$1,855 | \$122,885 | | | | |
| 7/1/2010 | | 3,080 | 123,770 | | | | |

*Excludes old Plan COLA participants.

**Basic salary plus overtime and private duty pay.

Supporting Exhibits (continued)

F. Membership Data

Data Reconciliation – Total

| | Participan | t Data | | |
|-----------------------------|---------------|----------------------|-------------|-------|
| | Active | Terminated Vested | Pensioners* | Total |
| Total Participants 7/1/2009 | 2,406 | 164 | 2,731 | 5,301 |
| Adjustments | -1 | 0 | 0 | -1 |
| Retirements | -79 | -34 | +113 | 0 |
| Disabilities | 0 | 0 | 0 | 0 |
| Terminations | | | | |
| Vested | -61 | +61 | N/A | 0 |
| Non-vested | -125 | N/A | N/A | -125 |
| Deaths | -4 | -2 | -113 | -119 |
| New beneficiaries | N/A | 0 | +79 | +79 |
| Transfer group | 0 | 0 | 0 | 0 |
| Rehires | +2 | 0 | -2 | 0 |
| New entrants | <u>+108</u> | <u>_N/A</u> | <u>N/A</u> | +108 |
| Total Participants 7/1/2010 | 2,246 | 189 | 2,808 | 5,243 |
| Payroll** | | | | |
| 7/1/2009 | \$134,142,502 | | | |
| 7/1/2010 | 132,529,465 | | | |
| Total monthly benefits | | | | |
| 7/1/2009 | | \$ 199,875 | \$6,746,286 | |
| 7/1/2010 | | 219,898 | 7,093,489 | |

*Excludes old Plan COLA participants.

**Basic salary plus overtime and private duty pay.

City of Hartford MERF - Police

Number of Persons/Average Salary of Persons in Processing Group by Age and Years of Service

| | | | | | | | | | Co | ompleted Y | ears of | Credited S | Service | • | | | | | | | | |
|-----------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|---------|---------------|---------|---------------|-----|---------------|-----|---------------|-------|---------------|--------|-------------|
| | Un | der 1 | 1 | to 4 | 5 | to 9 | 10 | to 14 | 15 | to 19 | 20 | to 24 | 25 | to 29 | 30 | to 34 | 35 | to 39 | 40 an | d over | All ye | ears |
| Attained Age | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg Comp |
| Under 25 | 6 | 46,796 | 9 | 55,441 | 2 | 62,468 | | | | | | | | | | | | | | | 17 | 53,216 |
| 25 to 29 | 12 | 46,769 | 50 | 58,126 | 25 | 75,097 | | | | | | | | | | | | | | | 87 | 61,437 |
| 30 to 34 | 6 | 46,748 | 30 | 62,946 | 38 | 79,178 | 10 | 80,877 | | | | | | | | | | | | | 84 | 71,267 |
| 35 to 39 | 5 | 45,830 | 13 | 60,071 | 34 | 77,275 | 29 | 82,635 | 15 | 91,379 | 2 | 95,757 | | | | | | | | | 98 | 77,511 |
| 40 to 44 | 2 | 45,486 | 8 | 56,470 | 27 | 78,744 | 36 | 82,358 | 30 | 93,713 | 10 | 91,555 | | | | | | | | | 113 | 82,838 |
| 45 to 49 | 1 | 45,472 | 8 | 53,143 | 6 | 74,048 | 8 | 80,936 | 10 | 86,689 | 7 | 97,334 | 1 | 103,387 | | | | | | | 41 | 78,390 |
| 50 to 54 | | | | | 4 | 71,517 | 1 | 72,132 | 4 | 71,179 | 7 | 73,827 | | | | | | | | | 16 | 72,482 |
| 55 to 59 | | | | | | | 3 | 84,516 | | | | | 3 | 75,010 | | | | | | | 6 | 79,763 |
| 60 to 64 | | | | | | | 1 | 36,492 | | | | | | | 1 | 69,897 | | | | | 2 | 53,195 |
| 65 to 69 | | | | | | | | | | | | | 1 | 86,182 | | | | | | | 1 | 86,182 |
| 70 & over | | | | | | | | | | | | | | | | | | | | | | |
| All ages | 32 | 46,503 | 118 | 58,911 | 136 | 77,169 | 88 | 81,588 | 59 | 90,401 | 26 | 88,661 | 5 | 82,920 | 1 | 69,897 | | | | | 465 | |

| | | | | | | | | | City 0 | I Hartion | | r - Filell | ginters | > | | | | | | | | |
|-----------------|-----|---------------|-----|---------------|-------|---------------|--------|---------------|---------|---------------|----------|---------------|---------|---------------|-------|---------------|-------|---------------|------|---------------|-------|---------------|
| | | | | N | umber | of Perso | ons/Av | verage Sa | alary c | of Person | is in P | rocessin | ıg Gro | up by Ag | e and | Years of | Servi | се | | | | |
| | | | | | | | | | | Ju | ly 1, 20 | 010 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | Co | ompleted Y | 'ears of | Credited \$ | Service | | | | | | | | | |
| | Unc | ler 1 | 1 | to 4 | 5 | to 9 | 10 | to 14 | 15 | to 19 | 20 | to 24 | 25 | to 29 | 30 | to 34 | 35 | to 39 | 40 a | nd over | All y | ears |
| Attained Age | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. |
| Under 25 | | | 18 | 55,822 | | | | | | | | | | | | | | | | | 18 | 55,822 |
| 25 to 29 | | | 18 | 55,022 | 4 | 77,722 | | | | | | _ | | | | | | | | | 22 | 59,149 |
| 30 to 34 | | | 20 | 54,403 | 15 | 73,376 | 9 | 72,648 | 3 | 70,995 | | | | | | | | | | | 47 | 65,011 |
| 35 to 39 | | | 11 | 54,096 | 10 | 73,363 | 19 | 72,386 | 16 | 78,681 | | | | | | | | | | | 56 | 70,766 |
| 40 to 44 | | | 3 | 59,374 | 9 | 75,452 | 16 | 75,628 | 23 | 79,486 | 12 | 79,029 | 1 | 73,741 | | | | | | | 64 | 76,836 |
| 45 to 49 | | | 1 | 53,416 | 4 | 73,961 | 12 | 74,725 | 16 | 81,800 | 34 | 83,110 | 17 | 81,341 | 1 | 77,362 | | | | | 85 | 80,478 |
| 50 to 54 | | | 1 | 78,421 | 1 | 71,338 | 5 | 73,610 | 8 | 78,208 | 15 | 80,717 | 19 | 80,787 | 5 | 84,542 | | | 1 | 74,818 | 55 | 79,758 |
| 55 to 59 | | | | | | | 1 | 71,338 | 1 | 75,816 | 4 | 82,453 | 2 | 94,971 | 2 | 76,566 | | | 1 | 90,130 | 11 | 82,743 |
| 60 to 64 | | | | | | | | | | | | | 1 | 77,362 | | | | | | | 1 | 77,362 |
| 65 to 69 | | | | | | | | | | | | | | | | | | | | | | |
| 70 & over | | | | | | | | | | | | | | | | | | | | | | |
| All ages | | | 72 | 55,392 | 43 | 74,219 | 62 | 73,795 | 67 | 79,259 | 65 | 81,764 | 40 | 81,470 | 8 | 81,650 | | | 2 | 82,474 | 359 | |

City of Hartford MERF - Firefighters

City of Hartford MERF - Board of Education

Number of Persons/Average Salary of Persons in Processing Group by Age and Years of Service

| | | | | | | | | | Co | ompleted Y | ears of | Credited S | Service | | | | | | | | | |
|-----------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|---------|---------------|---------|---------------|-----|---------------|-----|---------------|-------|---------------|--------|--------------|
| | Un | der 1 | 1 | to 4 | 5 1 | io 9 | 10 | to 14 | 15 | to 19 | 20 | to 24 | 25 | to 29 | 30 | to 34 | 35 | to 39 | 40 ai | nd over | All ye | ars |
| Attained Age | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp |
| Under 25 | 1 | 42,066 | 1 | 49,539 | | | | | | | | | | | | | | | | | 2 | 45,802 |
| 25 to 29 | 2 | 42,446 | 34 | 37,835 | 10 | 47,180 | 1 | 25,377 | | | | | | | | | | | | | 47 | 39,754 |
| 30 to 34 | 3 | 42,086 | 44 | 46,348 | 28 | 44,676 | 15 | 36,351 | | | | | | | | | | | | | 90 | 44,020 |
| 35 to 39 | 3 | 36,555 | 29 | 53,131 | 29 | 47,960 | 34 | 45,258 | 14 | 43,742 | | | 1 | 65,444 | | | | | | | 110 | 47,799 |
| 40 to 44 | 4 | 42,482 | 32 | 45,020 | 23 | 45,239 | 49 | 52,314 | 18 | 47,016 | 9 | 42,841 | | | 1 | 59,291 | | | | | 136 | 47,835 |
| 45 to 49 | 1 | 96,436 | 37 | 48,051 | 20 | 46,239 | 54 | 38,307 | 15 | 44,439 | 16 | 43,672 | 1 | 82,829 | | | | | | | 144 | 43,860 |
| 50 to 54 | 1 | 57,621 | 25 | 38,946 | 24 | 46,224 | 33 | 38,563 | 24 | 40,656 | 14 | 46,527 | 9 | 55,960 | 2 | 57,437 | | | 1 | 63,087 | 133 | 43,022 |
| 55 to 59 | | | 13 | 45,657 | 22 | 45,262 | 35 | 40,630 | 22 | 43,957 | 17 | 40,098 | 7 | 51,313 | 4 | 52,611 | 2 | 37,375 | 1 | 47,625 | 123 | 43,513 |
| 60 to 64 | 1 | 43,086 | 9 | 46,361 | 16 | 54,898 | 16 | 45,719 | 13 | 46,403 | 10 | 48,866 | 9 | 50,609 | 6 | 50,069 | 3 | 59,219 | | | 83 | 49,345 |
| 65 to 69 | | | 3 | 72,774 | 7 | 42,858 | 3 | 57,016 | 4 | 41,833 | 3 | 49,001 | 1 | 33,643 | 1 | 32,935 | | | | | 22 | 48,649 |
| 70 & over | | | | | 4 | 35,523 | | | | | | | 1 | 34,297 | | | | | | | 5 | 35,278 |
| All ages | 16 | 45,622 | 227 | 45,539 | 183 | 46,472 | 240 | 43,077 | 110 | 43,987 | 69 | 44,247 | 29 | 52,915 | 14 | 51,282 | 5 | 50,481 | 2 | 55,356 | 895 | |

| | ï | | | | | | | City | of Ha | rtford M | ERF - I | Municipa | l Ser | vices | | | | | | | | |
|-----------------|-----|---------------|-----|---------------|-------|---------------|--------|---------------|---------|---------------|----------|---------------|---------|---------------|--------|---------------|-------|---------------|------|---------------|--------|---------------|
| | | | | Ν | umber | of Perso | ons/Av | verage Sa | alary c | of Person | is in P | rocessin | ig Gro | oup by Ag | je and | l Years of | Servi | се | | | | |
| | | | | | | | | | | Ju | ly 1, 20 | 010 | | | | | | | | | | |
| | | | | | | | | | Co | ompleted Y | ears of | Credited | Service | <u>}</u> | | | | | | | | |
| | Un | der 1 | 1 | to 4 | 5 | to 9 | 10 | to 14 | 15 | to 19 | 20 | to 24 | 25 | to 29 | 30 | to 34 | 35 | to 39 | 40 a | nd over | All ye | ars |
| Attained Age | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. |
| Under 25 | 6 | 34,103 | 4 | 25,526 | | | | | | | | | | | | | | | | | 10 | 30,672 |
| 25 to 29 | 3 | 61,451 | 10 | 43,995 | 3 | 47,732 | | | | | | | | | | | | | | | 16 | 47,969 |
| 30 to 34 | 4 | 70,102 | 11 | 48,599 | 8 | 55,179 | 2 | 62,440 | 2 | 52,037 | | | | | | | | | | | 27 | 55,014 |
| 35 to 39 | 3 | 72,044 | 15 | 65,613 | 8 | 54,842 | 2 | 94,406 | 3 | 98,947 | | | | | | | | | | | 31 | 68,540 |
| 40 to 44 | 4 | 63,799 | 20 | 69,307 | 16 | 52,965 | 8 | 51,331 | 4 | 100,519 | 16 | 75,391 | 1 | 55,850 | 2 | 61,187 | 2 | 51,390 | | | 73 | 65,599 |
| 45 to 49 | 2 | 57,902 | 18 | 63,704 | 22 | 64,370 | 12 | 28,546 | 3 | 28,687 | 11 | 54,988 | 4 | 80,158 | 2 | 61,811 | 5 | 63,034 | 2 | 60,260 | 81 | 56,692 |
| 50 to 54 | 3 | 65,950 | 15 | 72,113 | 23 | 60,060 | 9 | 62,606 | 10 | 73,944 | 7 | 57,194 | 5 | 76,054 | 3 | 119,254 | | | | | 75 | 68,030 |
| 55 to 59 | 2 | 83,261 | 14 | 68,383 | 20 | 60,597 | 9 | 56,404 | 13 | 60,539 | 6 | 43,254 | 3 | 66,873 | | | 1 | 67,173 | 3 | 55,167 | 71 | 60,891 |
| 60 to 64 | | | 7 | 75,483 | 11 | 56,404 | 6 | 91,649 | 7 | 82,108 | 3 | 52,268 | 4 | 70,761 | 3 | 66,807 | 2 | 27,172 | | | 43 | 69,025 |
| 65 to 69 | | | 2 | 76,212 | 6 | 68,210 | 5 | 32,660 | 1 | 10,415 | 2 | 69,768 | 1 | 103,165 | | | | | | | 17 | 57,535 |
| 70 & over | | | | | 3 | 10,400 | 3 | 10,415 | 1 | 10,415 | 3 | 10,423 | 1 | 83,005 | | | 1 | 10,415 | | | 12 | 16,463 |
| All ages | 27 | 60,033 | 116 | 63,048 | 120 | 57,843 | 56 | 51,472 | 44 | 68,434 | 48 | 58,304 | 19 | 75,084 | 10 | 80,418 | 11 | 49,989 | 5 | 57,204 | 456 | |

City of Hartford MERF - Library

Number of Persons/Average Salary of Persons in Processing Group by Age and Years of Service

| | | | | | | | | | Co | mpleted Y | ears of | Credited S | Service | | | | | | | | | |
|-----------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|------|---------------|---------|---------------|---------|---------------|-----|---------------|-----|---------------|-------|---------------|-------|-------------|
| | Un | nder 1 | 1 | to 4 | 5 | to 9 | 10 | to 14 | 15 1 | to 19 | 20 | to 24 | 25 | to 29 | 30 | to 34 | 35 | to 39 | 40 ai | nd over | All y | ears |
| Attained Age | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg Comp |
| Under 25 | 1 | 41,717 | | | | | | | | | | | | | | | | | | | 1 | 41,717 |
| 25 to 29 | | | 2 | 48,442 | 2 | 50,833 | 1 | 48,869 | | | | | | | | | | | | | 5 | 49,484 |
| 30 to 34 | | | | | 1 | 52,125 | 2 | 50,599 | | | | | | | | | | | | | 3 | 51,108 |
| 35 to 39 | | | | : | 5 | 50,862 | 2 | 47,298 | 1 | 47,622 | 1 | 62,190 | | | | | | | | | 9 | 50,969 |
| 40 to 44 | | | 1 | 56,283 | 3 | 60,366 | 1 | 94,071 | 3 | 49,683 | 3 | 49,683 | 1 | 56,068 | | | | | | | 12 | 57,135 |
| 45 to 49 | 1 | 111,641 | 2 | 64,837 | 4 | 57,381 | 2 | 92,682 | | | 2 | 48,973 | 3 | 64,253 | | | | | | | 14 | 67,636 |
| 50 to 54 | | | 3 | 83,132 | 2 | 71,552 | 1 | 51,745 | 1 | 47,382 | 1 | 48,839 | | | | | | | | | 8 | 67,558 |
| 55 to 59 | 1 | 59,357 | 1 | 158,769 | 4 | 82,917 | 2 | 77,739 | | | 2 | 78,844 | 2 | 49,344 | | | | | . | | 12 | 80,137 |
| 60 to 64 | | | | | 2 | 47,975 | | | 1 | 98,774 | 2 | 109,226 | | | 1 | 81,072 | | | | | 6 | 82,375 |
| 65 to 69 | | | | | | | | | | | | | 1 | 47,114 | | | | | | | 1 | 47,114 |
| 70 & over | | | | | | | | | | | | | | | | | | | | | | |
| All ages | 3 | 70,905 | 9 | 76,779 | 23 | 60,411 | 11 | 66,484 | 6 | 57,138 | 11 | 66,742 | 7 | 56,376 | 1 | 81,072 | | | | | 71 | |

City of Hartford MERF - All Groups

Number of Persons/Average Salary of Persons in Processing Group by Age and Years of Service

| | l | | | | | | | | Co | mpleted Y | ears of | Credited S | Service | <u>!</u> | | | | | | | | |
|-----------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|---------|---------------|---------|---------------|-----|---------------|-----|---------------|-------|---------------|--------|---------------|
| | Un | der 1 | 1 | to 4 | 5 | to 9 | 10 | to 14 | 15 | to 19 | 20 | to 24 | 25 | to 29 | 30 | to 34 | 35 | to 39 | 40 ar | nd over | All ye | ears |
| Attained Age | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. | No. | Avg. Comp. |
| Under 25 | 14 | 40,655 | 32 | 51,732 | 2 | 62,468 | | | | | | | | | | | | | | | 48 | 48,948 |
| 25 to 29 | 17 | 48,851 | 114 | 50,175 | 44 | 66,022 | 2 | 37,123 | | | | | | | | | | | | | 177 | 53,840 |
| 30 to 34 | 13 | 52,858 | 105 | 52,860 | 90 | 65,043 | 38 | 58,788 | 5 | 63,412 | | | | | | | | | | | 251 | 58,336 |
| 35 to 39 | 11 | 50,450 | 68 | 57,367 | 86 | 63,313 | 86 | 65,046 | 49 | 73,192 | 3 | 84,568 | 1 | 65,444 | | | | | | | 304 | 63,817 |
| 40 to 44 | 10 | 51,610 | 64 | 54,890 | 78 | 62,490 | 110 | 65,846 | 78 | 77,397 | 50 | 72,096 | 3 | 61,886 | 3 | 60,555 | 2 | 51,390 | | | 398 | 65,975 |
| 45 to 49 | 5 | 73,871 | 66 | 53,527 | 56 | 59,117 | 88 | 47,053 | 44 | 66,553 | 70 | 70,123 | 26 | 80,092 | 3 | 66,995 | 5 | 63,034 | 2 | 60,260 | 365 | 60,026 |
| 50 to 54 | 4 | 63,868 | 44 | 54,163 | 54 | 55,394 | 49 | 47,509 | 47 | 56,871 | 44 | 64,276 | 33 | 73,299 | 10 | 89,534 | | | 2 | 68,953 | 287 | 58,923 |
| 55 to 59 | 3 | 75,293 | 28 | 61,060 | 46 | 55,204 | 50 | 48,201 | 36 | 50,830 | 29 | 49,265 | 17 | 63,145 | 6 | 60,596 | 3 | 47,308 | 5 | 60,651 | 223 | 53,927 |
| 60 to 64 | 1 | 43,086 | 16 | 59,102 | 29 | 54,992 | 23 | 57,299 | 21 | 60,798 | 15 | 57,594 | 14 | 58,278 | 11 | 59,255 | 5 | 46,401 | | | 135 | 57,346 |
| 65 to 69 | | | 5 | 74,149 | 13 | 54,559 | 8 | 41,793 | 5 | 35,550 | 5 | 57,308 | 4 | 67,526 | 1 | 32,935 | | | | | 41 | 53,212 |
| 70 & over | | | | | 7 | 24,756 | 3 | 10,415 | 1 | 10,415 | 3 | 10,423 | 2 | 58,651 | | | 1 | 10,415 | | | 17 | 21,996 |
| All ages | 78 | 51,944 | 542 | 54,025 | 505 | 60,439 | 457 | 56,252 | 286 | 65,862 | 219 | 64,866 | 100 | 70,291 | 34 | 68,421 | 16 | 50,143 | 9 | 62,409 | 2,246 | |

Supporting Exhibits

(continued)

G. IRC Section 415(m) Valuation

The IRC Section 415(m) Fund* is an unfunded "excess benefit plan" to provide that portion of certain retirees' pension benefits that exceed the limits permitted under Section 415 of the Federal Internal Revenue Code (IRC).

| | | <u>July 1, 2010</u> | <u>July 1, 2009</u> |
|----|---|---------------------|---------------------|
| 1. | Number of retirees and beneficiaries receiving benefits | 6 | 4 |
| 2. | Annual benefits payable | \$ 56,000 | \$ 44,000 |
| 3. | Present value of benefits | \$180,000 | \$143,000 |

The "actives" are funded through MERF. The City provides contributions for the retirees' benefits payable each year, as determined by the Pension Commission.

Actuarial Assumptions

The actuarial assumptions used in the 2009 Section 415(m) Fund valuation are as follows:

| Mortality Basis: | RP-2000 Healthy Annuitants Table projected by Scale AA to year of valuation plus 8 years (2018 for July 1, 2010 valuation), with no adjustment and separate male and female rates. |
|--|--|
| Termination: | N/A. |
| Salary Scale: | N/A. |
| Investment Return: | 8.00% per year, net of investment expenses. |
| Assumed Retirement age: | Immediate as all are retired. |
| Increases in dollar limit on benefits under IRC Section 415: | 3% per year. |

Benefits

Retiree pension amounts in excess of IRC Section 415 limits. Benefits which do not exceed such amounts are payable from the City's MERF Plan. IRC Section 415 limits are assumed to increase annually and thus decrease the benefits payable from this Plan and increase the portion of the benefits payable from the City's MERF Plan.

*Section 415(m) Fund adopted by the Court of Common Council on March 24, 1997.

Actuarial Cost Methods and Assumptions

A. Actuarial Cost Methods

Asset Valuation Method – Actuarial Value of Assets

In order to smooth the year-to-year fluctuations in asset values, the asset values are adjusted by phasing in recognition of gains and losses over a five-year period. (Phase-in started July 1, 2003). Gains and losses are defined as the difference between the actual and the expected return on assets.

The July 1, 2009 valuation reflected a change in the asset valuation method from the use of a four-year smoothing period for gains and losses to the use of a five-year period. In the year of implementation of the change, the five-year smoothing methodology was retroactively applied to the gains and losses for previous years.

The assets held by the insurance companies include the funds on deposit for future purchase of annuities, as well as the reserves and contingency reserves for annuities already purchased which are subject to experience rating.

Actuarial Funding Method

The "Aggregate Actuarial Cost Method" (first adopted for the 1969 valuation) is used for determining the future rates of contributions needed for funding service retirements. This method is designed to produce stable "percentage-of-payroll" Normal Actuarial Costs over a period of years. This aim will be achieved so long as the emerging experience conforms with the actuarial assumptions.

Using this method, an actuarial valuation was made of the actuarial present value of all future pension benefits for active members (including survivor benefits, disability benefits, and refunds of employee contributions). The actuarial present value needed for future payments to present pensioners and deferred vested pensioners and survivors was subtracted from the Actuarial Value of Assets to determine the current Actuarial Value of Assets available for future benefits for active members. The latter figure was subtracted from the actuarial present value of future benefits for active members in order to determine the remaining actuarial present value to be funded by future contributions. Finally, the net remainder was divided by the actuarial present value of all future salaries, and the total Normal Actuarial Costs for future contributions was determined as a level percentage of future annual payrolls.

Since the MERF fund includes several classifications of members who have different provisions for benefits and contributions, it was necessary to apply this method by separate actuarial valuations for Police, Firefighters, Board of Education, Municipal Services, and Library participants.

Actuarial Cost Methods and Assumptions

(continued)

B. Actuarial Assumptions

The actuarial assumptions used in the 2010 MERF valuation are as follows:

Mortality Basis:

For Police, Fire, Board of Education Corridor Supervisors and Building and Grounds Supervisors:

- Pre-retirement: RP2000 Employees Table male and female rates, projected by Scale AA to valuation date plus 17 years with occupational (i.e., non-office worker, blue collar) adjustment.
- Post-retirement: RP2000 Healthy Annuitants Table – male and female rates, projected by Scale AA to valuation date plus 8 years with occupational (i.e., non-office worker, blue collar) adjustment. No adjustment reflected for assumed future beneficiaries.
- Disability: RP2000 Disabled Table male and female rates.

For All Other Groups:

- Pre-retirement: RP2000 Employees Table male and female rates, projected by Scale AA to valuation date plus 17 years with no adjustment.
- Post-retirement: RP2000 Healthy Annuitants Table – male and female rates, projected by Scale AA to valuation date plus 8 years with no adjustment.
- Disability: RP2000 Disabled Table male and female rates.

Actuarial Cost Methods and Assumptions

(continued)

| Yearl | y Rates of Employee Ter | <u>mination</u> |
|-------|-------------------------|-----------------|
| Age | Non-Uniformed | Uniformed |
| 20 | 10.0% | 5.0% |
| 25 | 7.0% | 2.0% |
| 30 | 5.0% | 2.0% |
| 35 | 4.0% | 2.0% |
| 40+ | 0.0% | 0.0% |

3% for inflationary salary increases plus a percentage for promotion or merit increases. For Police under age 45, overtime limited to less than or equal to 20% of base pay.

Yearly Rates of Increases for Promotion or Merit

| Age | Police | Fire | <u>Bd of Ed</u> | Munic. Svc. & Lib. |
|---------|--------|------|-----------------|--------------------|
| 25 | 4.0% | 2.5% | 4.0% | 6.0% |
| 30 | 3.5% | 2.5% | 4.0% | 4.7% |
| 35 | 2.2% | 1.6% | 2.1% | 3.1% |
| 40 | 1.2% | 1.1% | 1.0% | 2.0% |
| Over 40 | 1.0% | 1.0% | 1.0% | 2.0% |

Salaries are adjusted for groups in negotiations by 3% per year for the period of each open contract, and non-bargaining groups by 3% per year for one full fiscal year from the measurement date. Any wage increases negotiated beyond the valuation date have been reflected in our projections.*

* The following groups have future salary increases that have been negotiated and are reflected in this valuation:

Firefighters HMEA CHPEA MLA Non-union School Crossing Guards

8.00% per year, net of investment expenses.

Salary Scale:

Termination:

Investment Return:

Actuarial Cost Methods and Assumptions

(continued)

Assumed Retirement Age:

Retirement Rates:

| Service Police | Fire | Mun. Svc. & Lib. |
|--|--------------|------------------|
| <u>Service</u> <u>Police</u> 20 20% | 5% | 10% |
| 20 20/0 | 1% | 5% |
| 22 5% | 1% | 5% |
| 23 5% | 1% | 10% |
| 24 20% | 10% | 15% |
| 25 30% | 30% | 15% |
| 26-27 5% | 5% | 10% |
| 28 10% | 5% | 15% |
| 29 25% | 20% | 15% |
| 30 100% | 20% | 100% |
| 31-34 n/a | 5% | n/a |
| 35 n/a | 100% | n/a |
| (maxin | num of age 6 | 55) |
| | | |
| | of Ed | |
| 55 | 15% | |
| 56 | 10% | |
| 57-59 | 5% | |
| 60 | 30% | |
| 61 | 5% | |
| 04 | 20% | |
| 05 01 | 10% | |
| 65 1 | 00% | |

For both Uniformed and Non-Uniformed who have reached Assumed Retirement Age, retirement after one year.

Social Security:

Future tax wage bases are developed by projecting the 2010 base of \$106,800 forward at 4% per year.

Actuarial Cost Methods and Assumptions

(continued)

Marital Status at Retirement:

Non-Uniformed:

Males - 80% married, spouse 3 years younger. Females - 60% married, spouse same age.

Uniformed:

All - 80% married, spouse 2 years younger.

Disability:

Disability benefits were explicitly valued using the DP85 Class 1 Male and Female Disability Incidence Rate Table increased three times for the Police and Firefighter groups, two times for the Board of Education groups and with no increase for the Municipal Services and Library groups.

DP85 Class 1 Disability Incidence Table: Sample male and female rates

| | 1 0 | |
|-----|--------|--------|
| Age | Male | Female |
| 15 | 0.021% | 0.023% |
| 20 | 0.029% | 0.030% |
| 25 | 0.038% | 0.047% |
| 30 | 0.048% | 0.080% |
| 35 | 0.069% | 0.136% |
| 40 | 0.117% | 0.211% |
| 45 | 0.202% | 0.323% |
| 50 | 0.358% | 0.533% |
| 55 | 0.722% | 0.952% |
| 60 | 1.256% | 1.159% |
| 65 | 1.753% | 1.358% |

Expenses other than Investment Expenses:

An explicit dollar amount was included in the development of the normal cost percentage equal to an estimate of expenses (other than investment expenses) for the upcoming year. The estimate was developed based on an average of actual expenses over the last four years. For the 2010 valuation, \$2,318,859 was used. Estimated expenses were then allocated to the various groups by the present value of future benefits and expressed as a percentage of payroll.

City of Hartford - 2010

Actuarial Cost Methods and Assumptions

(continued)

Sick Exchange:

Military and Prior Service Buy-backs:

Additional Liabilities:

Four years are exchanged by all actives if provision available. For Firefighters hired prior to July 1, 2003, six years are exchanged.

When a decision to buy-back service occurs, date of hire is adjusted accordingly.

COLAs:

Included in this valuation is the liability for the Cost of Living Adjustments (COLAs) effective July 1, 1987, July 1, 1990, July 1, 1997, July 1, 1999, July 1, 2001, July 1, 2005, and July 1, 2007 for both the MERF and the unfunded "Old Plans" (PBF, FRF, and RAF).

Local 1716:

Included in this valuation is the obligation for Local 1716 members who transferred to State MERF B on July 1, 1987.

29-year amortization payments (split between the City administration and the pension fund) commenced July 1, 1987 for this obligation. As of July 1, 2010, the City payment will be \$509,126 (\$2,542,000 on a present value basis) and the pension fund payment will be \$462,336 (\$2,308,000 on a present value basis).

Local 566:

Included in this valuation is the obligation for Local 566 (included merged Local 1303) members who transferred to State MERF B on August 1, 1988.

30-year amortization payments (split between the City administration and the pension fund) commenced August 1, 1988 for this obligation. As of July 1, 2010, the City payment will be \$303,918 (\$2,050,000 on a present value basis) and the pension fund payment will be \$276,288 (\$1,864,000 on a present value basis).

Hartford MERF - Summary of Principal Provisions of Pension Plan July 1, 2010

PROVISIONS FOR: POLICE OFFICERS AND FIREFIGHTERS BOARD OF EDUCATION MEMBERS

Retirement Pensions:

Firefighters hired before July 1, 2003: 2.80% of Final Average Pay (rate of weekly pay immediately preceding retirement times 52, plus for firefighters who work a 42 hour week, holiday pay) multiplied by years of service up to 25 plus 2.0% for years over 25.

Firefighters hired after June 30, 2003: 2.5% of Final Average Pay (rate of weekly pay immediately preceding retirement times 52, plus for firefighters who work a 42 hour week, holiday pay) multiplied by years of service up to 20 plus 2% of Final Average Pay for years of service over 20.

Sworn Police Officers hired before July 1, 1999: 2.65% of Final Average Pay for highest 3 of last 5 years multiplied by years of service up to 20 plus 3% for year 21 plus a decreasing percentage for years over 21. Final Average Pay includes a provision for over-time and private duty pay.

Sworn Police Officers hired after June 30, 1999: 2.5% of Final Average Pay for highest 3 of last 5 years times years of service up to 20 plus 2% for years of service- over 20.

2% (2.5% for HFSHP, HSSSA and HESP) of Final Average Pay for highest 5 of last 10 years times years of service, with maximum benefit of 70% of Final Average Pay. Final Average Pay for HFSHP, HESP, HSSSA, and Local 2221, Hartford Federation of Paraprofessionals are based on highest 3 out of last 5 years. Benefit for Local 2221 is 2.5% of Final Average Pay multiplied by years of service up to 20 plus 2% of Final Average Pay for years of service over 20 (maximum of 10 years).

Effective July 1, 2008 for Local 818, employees hired prior to March 1, 2007 will get 2.5% of Final Average Pay (for each year of service) and employees hired after March 1, 2007 will get 2.0%. Final Average Pay is the highest 3 of the 7 years. Maximum benefit is 70% of pay.

MUNICIPAL SERVICES & LIBRARY MEMBERS

For Library and MLA hired on or after July 1, 2006, HMEA hired after July 1, 2003, CHPEA hired after June 23, 2003, 2% of Final Average Pay for highest 2 of last 5 years times years of service with a maximum benefit of 70% of Final Average Pay. For Library with 5-year option, Final Average Pay is highest 5 of last 10 years.

For CHPEA hired on or before June 23, 2003, MLA hired before July 1, 2006, and Nonbargaining, 2.5% of Final Average Pay for highest 2 of last 5 years times years of service. Maximum benefit of 70% of Final Average Pay for CHPEA, 80% for Nonbargaining and MLA. For Nonbargaining with 5-year option, Final Average Pay is highest 5 of last 10 years.

For HMEA hired before July 1, 2003, 2.75% of Final Average Pay for highest 2 of last 5 years times years of service with a maximum benefit of 75% (was 70%) of Final Average Pay.

For SCGA, 2% of Final Average Pay for highest 5 of last 10 years reduced by 1% of average Social Security covered earnings for all years included in computation of Social Security primary benefits. Maximum benefit of 100% of Final Average Pay.

MUNICIPAL SERVICES & LIBRARY MEMBERS

PROVISIONS FOR: POLICE OFFICERS AND FIREFIGHTERS **BOARD OF EDUCATION MEMBERS**

Non-Sworn Police Officers: 2.5% of Final Average Pay for highest 3 of last 5 years times years of service, with maximum benefit of 80% of Final Average Pay.

Sworn Police Officers have a maximum benefit of 70% of Final Average Pay. For Sworn Police Officers hired before July 1, 1999 increase maximum benefit to 80% of Final Average Pay with sick exchange provision. Firefighters have a maximum benefit of 80% of Final Average Pay (85% with sick exchange if hired prior to July 1, 2003).

Assistant Police Chief, Police Chief, Assistant Fire Chief and Fire Chief: Same as Non-Bargaining.

Normal Form of Benefit:

Retirement Pensions:

For unmarried members: life annuity. For married members: surviving spouse benefit For married members: life annuity with of 25% of member's final year's earnings, if nonservice connected death, and 50% of member's final year's earnings, if service connected death. Minimum of 50% of pension benefit for firefighters for non-service connected death.

For married Non-Sworn Police Officers: life annuity with 50% to survivor.

For unmarried members: life annuity. 50% to survivor.

For unmarried members: life annuity. For married members: life annuity with 50% to survivor.

PROVISIONS FOR:

POLICE OFFICERS AND FIREFIGHTERS BOARD OF EDUCATION MEMBERS

MUNICIPAL SERVICES & LIBRARY MEMBERS

Normal Retirement Age and Service Requirement:

Firefighters and Sworn Police Officers hired before July 1, 1999: Full benefits after 20 years of continuous service.

Sworn Police Officers hired after June 30, 1999: Local 818 employees hired prior to March Full benefits after 25 years of continuous service.

Non-Sworn Police Officers: Full benefits after 20 years of service, or age 60 plus 5 years of continuous service, or after 15 years of service, if contributions are left in the MERF until would have had 20 years of service.

Age 60 plus 10 (5 for non-bargaining – was 10) years of service (continuous service for Local 2221). Members are also eligible at age 55 with 25 years of service. 1, 2007 may retire after 20 years of service, regardless of age. For HSSSA, age 55 and 5 (was 10) years of service.

For SCGA and MLA hired on or after July 1, 2006, earlier of (1) age 60 plus 5 years of continuous service or (2) age 55 with 25 years of continuous service.

For Nonbargaining and MLA hired prior to July 1, 2006, earlier of (1) age 60 plus 5 years of continuous service or (2) 20 years of service, or (3) after 20 years of service if participant leaves after 15 years of service and contributions are left in the MERF until would have had 20 years of service.

For CHPEA, earlier of (1) age 60 plus 5 years of continuous service or (2) 20 years of aggregate service if hired on or before June 23, 2003, age 55 with 25 years of aggregate service if hired after June 23, 2003.

For HMEA earlier of (1) age 60 plus 5 years of continuous service or (2) 20 years of continuous service if hired before July 1, 2003, age 55 with 25 years of continuous service if hired after July 1, 2003.

For Library non union, earlier of (1) age 60 plus 5 years of continuous service or (2) 25 years of continuous service.

For Library union, (1) age 60 plus 10 years of continuous service or (2) 25 years of continuous service.

| PROVISIONS FOR: | POLICE OFFICERS AND FIREFIGHTERS | BOARD OF EDUCATION MEMBERS | MUNICIPAL SERVICES & LIBRARY MEMBERS |
|--|---|--|--|
| <u>Optional Early</u> <u>Retirement:</u> | Sworn Police Officers: Age 50 with 10 years of continuous service, actuarially reduced for years prior to Normal Retirement Age. Non-Sworn Police Officers: Age 55 with 5 years of continuous service, reduced at 4% per whole year prior to age 60. | HESP) of service (continuous service for Local 2221), reduced at 4% per whole year prior to age 60. For Local 818, reduction | For Library union, age 55 with 10 years of continuous service. For all others, age 55 with 5 years of continuous service. Benefit reduced at 4% per whole year prior to age 60 (prorate for partial years for HMEA and CHPEA). For SCG members, reduction is 2% per whole year and fraction of a year prior to age 60. |
| | Firefighters: Age 50 with 5 years of continuous service, actuarially reduced or reduced at 2% per year (prorated for fractional years) prior to Normal Retirement Age. | | |
| Vesting of Earned Deferred <u>Pension:</u> | Sworn Police Officers: After 10 years of continuous service. Firefighters and Non-Sworn Police Officers: After 5 years of continuous service. | and non-bargaining) of continuous service. Payments begin no earlier than age 55. | For Library union, 10 years of continuous service. For all others, 5 years of continuous service. Payments begin no earlier than age 55. |
| <u>Benefits to Survivors:</u> (Death of Active Member Prior to Retirement) | Surviving Spouse: 25% of final year's earnings (50% if service connected death), payable until death or remarriage. Minimum of 50% of pension benefit for Firefighters for non-service connected death. Surviving Child: \$100 per month for first child, \$50 for each additional child (10% of final year's earnings if service connected death, or 15% if no surviving spouse). Total benefit, including Worker's Compensation, cannot exceed 100% of current pay rate for Member's rank. Non-Sworn Police Officers: Same as General Government members. | Member is receiving or would be entitled to date of Member's 55th birthday. Survi remarriage. | ting. Surviving Spouse: 50% of pension which to when retired, payments beginning no earlier than ving Spouse benefits are payable until death or |

POLICE OFFICERS AND FIREFIGHTERS BOARD OF EDUCATION MEMBERS MUNICIPAL SERVICES & LIBRARY

| Refund of Contributions upon Discontinuance of Employment or at Death <u>(Non-Vested Members):</u> (May be taken in lieu of earned deferred pension by vested members) | Refund of total contributions, without interest. Non-Sworn Police Officers: Same as General Government members. | Termination: Refund of total contributions, with 3% interest compounded annually. Death: Refund of total contributions with interest preretirement and without interest postretirement. |
|--|--|--|
| Pensions for Permanent, Total Disability - Service <u>Requirements:</u> | 5 years of continuous service, but no requirement if disability is service connected as defined in Worker's Compensation Act.Non-Sworn Police Officers: Same as General Government members. | 10 years of continuous service, except no requirement if disability is service connected as defined in Worker's Compensation Act. |
| Amount of Total Disability <u>Pension:</u> (Payable so long as total disability continues.) | Retirement Pension with minimum of 25% of "final average pay." If disability is service connected, the pension equals 100% of the Member's final annual pay less Worker's Compensation benefits. | Retirement Pension using Final Average Pay for last 10 years. If disability is service connected, amount not less than 50% of Member's final annual pay at time of disability. Maximum benefit of 2/3 of 10-year Final Average Pay less Social Security benefit. Minimum benefit of \$30 per month. All service connected disability benefits are offset by benefits payable by Worker's Compensation (exception: no offset for \$30 minimum). |
| | Non-Sworn Police Officers: Same as General Government members. | If non service connected, same as above, but no 50% Final Average Pay minimum and minimum benefit equals \$10 per month instead of \$30 per month. |

PROVISIONS FOR:

Pensions for Permanent <u>Partial Disability:</u> (Where earnings capacity is reduced by at least 10%.) Ten years of continuous service, but no service requirement if disability is service connected. Same as retirement pension with reduction for less than 15 years of service. If non-service connected, retirement pension, subject to a minimum equal to 25% of Final Average Pay. This minimum is reduced by earnings if less than 15 years of service at time of disability. If service connected, pension equals 50% of final annual pay (regular 20 year pension for Firefighters) if 15 years of service, with reductions for earnings if less than 15 years of service. If at least 20 years of service, pension equals retirement pension.

Non-Sworn Police Officers: Same as General Government members.

10 years of continuous service, except no requirement if disability is service connected as defined in Worker's Compensation Act. Retirement Pension using Final Average Pay for last 10 years (with offset for Worker's Compensation benefits if service-related disability), subject to a minimum pension of \$10 monthly (non-service connected), or \$30 (service connected). If the disability is service connected, benefit not less than 50% of the reduction in earnings with offset for Worker's Compensation benefits. For service connected disability, the maximum benefit is 2/3 of 10 year final average pay less Worker's Compensation and Social Security benefits. For non-service connected disability, the maximum is 2/3 of 10 year final average pay less Social Security benefits, or $1-^2/3\%$ of the reduction in income times years of service.

PROVISIONS FOR:

POLICE OFFICERS AND FIREFIGHTERS

Member's Contribution <u>Rate of Total Earnings:</u> (City pays full balance of costs to fund MERF benefits; also Members and City pay taxes for those covered by Social Security.)

Firefighters and Sworn Police Officers hired before July 1, 1999: 8%.

Sworn Police Officers hired after June 30, 1999: 6.5%.

Non-Sworn Police Officers: 4% on earnings taxed for Social Security and 7% on excess.

Assistant Police Chief, Police Chief, Assistant Fire Chief and Fire Chief: Same as Non-Bargaining.

4% on earnings taxed for Social Security and 7% on excess. For HESP, 9% and 12%, respectively. For HSSSA, 9.25% and 12.25%, respectively (was 8.75%/11.75%). For HFSHP 10.14% and 13.14%, respectively. For Non-bargaining 4.5% and 7.5%, respectively (was 4%/7%).

BOARD OF EDUCATION MEMBERS

For Local 818, 5.2% up to Social Security Wage Base and 8.2% of the excess. If hired on or after March 1, 2007, 7.1% and 10.1%, respectively.

MUNICIPAL SERVICES & LIBRARY MEMBERS

For Nonbargaining, 5% on earnings taxed by Social Security and 8% on excess if 5 year Final Average Pay option elected (was 4%/7%). With 2 year option, 6% and 9%, respectively (was 5%/8).

For Library, 4% on earnings taxed by Social Security and 7% on excess if 5 year Final Average Pay option elected. With 2 year option, 5% and 8%, respectively.

For MLA, HMEA hired after July 1, 2003, and CHPEA hired after June 30, 2003, 5% on earnings taxed by Social Security and 8% on excess. For CHPEA hired on or before June 30, 2003, 6.5% and 9.5%, respectively. For HMEA hired before July 1, 2003, 7.8% on all earnings.

For SCGA, 4% on earnings taxed by Social Security and 7% on excess (was 3%/6%).

- Note 1 Any Member (other than a Police Officer or Firefighter) who was a Member before January 1, 1958 is guaranteed a minimum total benefit, including Social Security based on earnings from the City, equal to the pension the Member would have received under the terms of the MERF plan in existence prior to the enactment of the 1957 Special Act No. 347. Also, several active Members who transferred to MERF on or after July 1, 1968 from the City's Retirement Allowance Fund are entitled to a pension determined by the RAF provisions if it is greater than that based on the MERF provisions.
- Note 2 Section 2-166 of the Municipal Code provides a minimum benefit of \$155 monthly for all pensions granted by reason of service or for service-connected disability, and for joint annuitants under elected options, except members for whom Social Security taxes have been paid and anyone for whom more than half of the total pension is paid by the Metropolitan District.
- Note 3 All members (other than SCG) may purchase up to 4 years of pension credit for military service. Pension credit is at the following rates of Final Average Pay per year purchased:

| HMEA members hired before July 1, 2003 | 2.75% |
|--|-------|
| Sworn Police Officers, Firefighters, CHPEA members hired on or before June 23, 2003, HFSHP, Local 818 hired prior to March 1, 2007, HSSSA, HESP, Non-bargaining (including Assistant Police Chief, Police Chief, Assistant Fire Chief, and Fire Chief), Non-Sworn Police Officers, and MLA hired prior to July 1, 2006 | 2.50% |
| Other (including CHPEA members hired after June 23, 2003, HMEA members hired prior to July 1, 2003, MLA hired on or after July 1, 2006, and Local 818 hired on or after March 1, 2007) | 2.00% |

Note 4 All members (other than Sworn Police Officers hired after July 1, 1999, all Board of Education members, CHPEA hired after June 23, 2003, HMEA hired on or after July 1, 2003, Library, SCG and MLA hired on or after July 1, 2006) may exchange accumulated sick leave upon retirement for up to 4 years (6 years for Firefighters hired prior to July 1, 2003) of pension service time. Additional pension service time may be purchased from accumulated sick leave at the rate of twenty days of accumulated sick leave for each year of pension service time.

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