City of Philadelphia Municipal Retirement System

July 1, 2007 Actuarial Valuation

Produced by Cheiron



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LETTER OF TRANSMITTAL

April 4, 2008

City of Philadelphia Municipal Retirement System Two Penn Center Plaza – 16th Floor Philadelphia, PA 19102-1721

Dear Board Members:

At your request, we have performed the July 1, 2007 actuarial valuation of the City of Philadelphia Municipal Retirement System. This is Cheiron's first valuation report for the City. Below we identify four key results of this valuation.

- Unfunded Actuarial Liability (UAL): The UAL is the excess of the System's actuarial liability (AL) over the actuarial value of assets (AVA). The UAL decreased from \$3.915 billion as of July 1, 2006 to \$3.775 billion as of July 1, 2007.
- Funding Ratio: This is the ratio of the System's AVA to AL. The funding ratio increased from 51.6% as of July 1, 2006 to 53.9% as of July 1, 2007.
- Contribution under the City's Funding Policy: The recommended beginning-of-year contribution under the City's funding policy decreased from \$517.9 million for FY 2008 to an estimated \$514.5 million for FY 2009.
- Minimum Municipal Obligation (MMO): The MMO is the required minimum amount the City must contribute under Pennsylvania state law. The MMO increased from \$412.4 million for FY 2008 to \$438.5 million for FY 2009.

| Table I-1 Key Results (\$ thousands) | | | | | | |
|--|----|-----------|----|-----------|--|--|
| Valuation Date | | 7/1/2007 | | 7/1/2006 | | |
| Unfunded Actuarial Liability | \$ | 3,775,476 | \$ | 3,915,200 | | |
| Funding Ratio | | 53.9% | | 51.6% | | |
| Fiscal Year | | 2009 | | 2008 | | |
| City's Funding Policy* | \$ | 514,493 | \$ | 517,884 | | |
| Minimum Municipal Obligation | | 438,522 | | 412,448 | | |

^{*} The FY 2009 amount is based on estimated July 1, 2008 annual payroll. The final contribution will be based on actual payroll.

Board of Pensions and Retirement April 4, 2008 Page 2

These results are based on the same actuarial assumptions and methods used in the July 1, 2006 valuation, which was performed by Mercer Human Resource Consulting. The detailed assumptions and methods are found in Appendix B. All results presented as of July 1, 2006 are based on the valuation report prepared by the prior actuary. In our valuation process we replicated their results within generally accepted margins, but we do not certify the results presented for July 1, 2006 for our comparisons.

We do certify that, to the best of our knowledge, the results of this report as of July 1, 2007 are complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the Code of Professional Conduct and applicable actuarial standards set out by the Actuarial Standards Board and Actuarial Standards of Practice (ASOPs) Nos. 4, 27 and 35. As such, it reflects the actuary's responsibility under Section 5.8 of ASOP No. 4 "for assessing the implications of the overall results, in terms of short- and long-range benefit security and expected cost progression."

In preparing our report, we relied without audit, on information supplied by the Retirement System's staff. This information includes, but is not limited to, plan provisions, employee data, and financial information.

Finally, in preparation of this report we have accepted the assumptions and methodologies as adopted by the Board of Pensions and Retirement as related to the experience and expectations for the City of Philadelphia Municipal Retirement System. We do not provide an opinion of the long-term return rate assumption of 8.75% being sustainable from the diversified asset portfolio. However, the use of these assumptions and methodologies for the July 1, 2007 actuarial valuation do not appear to expose the Retirement System to unsound financial risk at this time.

Sincerely, Cheiron

Kenneth A, Kent, FSA, FCA, EA, MAAA Consulting Actuary

200G.701

Christian Benjaminson, ASA, EA, MAAA Actuary

Christian Benjaminson



SECTION I BOARD SUMMARY

The primary purpose of the actuarial valuation and this report is to disclose the following as of the valuation date:

- The financial condition of the City of Philadelphia Municipal Retirement System,
- Past trends and expected future trends in the Retirement System's financial condition,
- The City's required contribution for Fiscal Year 2009, and
- Information required by the Governmental Accounting Standards Board (GASB).

In this Section, we present a summary of the principal valuation results. This includes the basis upon which the July 1, 2007 valuation was completed and an examination of the current financial condition of the System. In addition, we present a review of the key historical trends followed by the System's projected financial outlook.

A. Valuation Basis

This valuation is the first Cheiron has performed for the City of Philadelphia Municipal Retirement System. As stated in the letter of transmittal, the June 30, 2007 valuation results are based on the same actuarial assumptions used in the June 30, 2006 valuation, prepared by your prior actuary. All results presented as of July 1, 2006 are based on the valuation report prepared by the prior actuary. In our valuation process we replicated their results within generally accepted margins, but we do not certify the results presented for July 1, 2006 for our comparisons.

As Cheiron's first valuation report for the City, below we identify four key results of this valuation.

- *Unfunded Actuarial Liability (UAL):* The UAL is the excess of the System's actuarial liability (AL) over the actuarial value of assets (AVA). The UAL decreased from \$3.915 billion as of July 1, 2006 to \$3.775 billion as of July 1, 2007.
- *Funding Ratio:* This is the ratio of the System's AVA to AL. The funding ratio increased from 51.6% as of July 1, 2006 to 53.9% as of July 1, 2007.
- Contribution under the City's Funding Policy: The recommended beginning-of-year contribution under the City's funding policy decreased from \$517.9 million for FY 2008 to an estimated \$514.5 million for FY 2009.
- *Minimum Municipal Obligation (MMO):* The MMO is the required minimum amount the City must contribute under Pennsylvania state law. The MMO increased from \$412.4 million for FY 2008 to \$438.5 million for FY 2009.



SECTION I BOARD SUMMARY

B. Current Financial Condition

On the following pages, we summarize the key results of the July 1, 2007 valuation and how they compare to the results from the July 1, 2006 valuation.

1. <u>City membership:</u>

As shown in Table I-2 below, total membership in the Retirement System increased by 1.2% from 2006 to 2007. The average salary per active member increased by 1.2%, which is below the assumed 5.0% salary scale.

| Table I-2 Membership Total | | | | | | | | |
|----------------------------------|----|---------------|----|---------------|----------|--|--|--|
| | | July 1, 2007 | | July 1, 2006 | % Change | | | |
| Actives | | 28,354 | | 28,017 | 1.2% | | | |
| Terminated Vesteds | | 1,301 | | 809 | 60.8% | | | |
| Disabled | | 4,384 | | 4,439 | -1.2% | | | |
| Retirees | | 20,448 | | 19,853 | 3.0% | | | |
| Beneficiaries | | 8,593 | | 8,637 | -0.5% | | | |
| DROP | | 2,102 | | 2,625 | -19.9% | | | |
| Total City Members | | 65,182 | | 64,380 | 1.2% | | | |
| | | | | | | | | |
| Annual Salaries | \$ | 1,351,826,215 | \$ | 1,319,431,076 | 2.5% | | | |
| Average Salary per Active Member | | 47,677 | | 47,094 | 1.2% | | | |
| | | , | | ŕ | | | | |
| Annual Retirement Allowances | \$ | 559,777,176 | \$ | 532,052,278 | 5.2% | | | |
| Average Retirement Allowance | | 16,747 | | 16,158 | 3.6% | | | |

Two significant changes in plan membership should be noted. First, the large increase in terminated vested participants reflects the conversion of records to electronic files for valuation measurement. The second item to note is the decrease in DROP membership which is an expected reflection of demographics; similar declines are expected going forward.



SECTION I BOARD SUMMARY

2. City assets and liabilities

Table I-3 presents a comparison between the July 1, 2007 and July 1, 2006 System assets, liabilities, UAL, and funding ratios. Of note is the increase in the Funding Ratio from 51.6% as of July 1, 2006 to **53.9%** as of July 1, 2007

| Table I-3 Assets and Liabilities (\$ thousands) | | | | | | | | |
|---|----|-----------|----|-----------|--------|--|--|--|
| July 1, 2007 July 1, 2006 % Change | | | | | | | | |
| Actives | \$ | 2,761,320 | \$ | 2,731,484 | 1.1% | | | |
| Terminated Vesteds | | 104,467 | | 65,196 | 60.2% | | | |
| Disabled | | 605,573 | | 602,784 | 0.5% | | | |
| Retirees | | 3,443,250 | | 3,243,723 | 6.2% | | | |
| Beneficiaries | | 451,236 | | 442,936 | 1.9% | | | |
| DROP | | 825,910 | | 991,848 | -16.7% | | | |
| Non-Vested Refunds | | 5,453 | _ | 5,696 | -4.3% | | | |
| Total Actuarial Liability | \$ | 8,197,209 | \$ | 8,083,667 | 1.4% | | | |
| | | | | | | | | |
| Market Value of Assets (net of PAF) | \$ | 4,850,884 | \$ | 4,315,593 | 12.4% | | | |
| Actuarial Value of Assets (net of PAF) | | 4,421,734 | | 4,168,467 | 6.1% | | | |
| | | | | | | | | |
| Unfunded Actuarial Liability | \$ | 3,775,476 | \$ | 3,915,200 | -3.6% | | | |
| Funding Ratio | | 53.9% | | 51.6% | 2.3% | | | |

It is also notable that while the market value of assets increased by 12.4%, because the experience gains from investments is spread over a four-year period and prior investment returns were less then the 8.75% expected return, the growth in the actuarial value of assets was only 6.1%.



SECTION I BOARD SUMMARY

3. Components of UAL change between July 1, 2006 and July 1, 2007:

The Retirement System's unfunded actuarial liability decreased by \$139.7 million, from \$3,915.2 million as of July 1, 2006 to \$3,775.5 million as of July 1, 2007. Table I-5 below presents the specific components of this change in the UAL.

The System experienced a \$65.0 million investment gain and a \$25.7 million liability gain. There was a \$51.2 million loss due to FY 2007 contributions being less than expected under the City's funding policy.

| | Table I-4 Change in Unfunded Actuarial Liability (\$ millions) | |
|----|--|--------------|
| | Experience | |
| 1. | UAL change due to investment (gain)/loss | \$ (65.0) |
| 2. | UAL change due to overall liability (gain)/loss | (25.7) |
| | Contributions | |
| 3. | UAL change due to contributions less than expected | \$ 51.2 |
| | Total | |
| 4. | Total net overall (gain)/loss: sum 1 through 3 | \$ (39.5) |
| 5. | Expected change in UAL | (100.2) |
| 6. | Total change in UAL: 4 + 5 | (139.7) |



SECTION I BOARD SUMMARY

4. City contributions:

The contribution under the City's Funding Policy for Fiscal Year 2009, measured as of the beginning of the year, decreased by 1.72% of payroll, from 38.31% to 36.59%. In dollar terms, the required beginning of the year contribution decreased from \$517.9 million to \$514.4 million.

The Minimum Municipal Obligation for Fiscal Year 2009 measured as of the beginning of the year, increased by 1.13% of payroll, from 30.06% to 31.19%. In dollar terms, the required beginning of year contribution increased from \$412.4 million to \$438.5 million.

In Section IV of this report, we provide more detail on the development of these contributions.

| Table I-5 Contributions Fiscal Year 2009 % of Pay 2008 % of Pay | | | | | | | | |
|---|----------|---------------------|-----------------|----------|---------------------|-----------------|--|--|
| Fiscal Fear | City | 's Funding Po | % of Pay | | 2008 | % of Pay | | |
| Estimated FY Payroll | \$ | 1,405,899 | oncy | \$ | 1,351,826 | | | |
| Normal Cost (with Expenses) Employee Contributions | \$ | 127,858 (48,894) | 9.09% 3.48% | \$ | 124,134 (47,445) | 9.18% 3.51% | | |
| City Normal Cost Amortization Payment | | 78,964 435,529 | 5.62% 30.98% | | 76,689 441,194 | 5.67% 32.64% | | |
| City's Funding Policy | \$ | 514,493 | 36.60% | \$ | 517,884 | 38.31% | | |
| Min | imun | n Municipal (| Obligation | <u>'</u> | | | | |
| Estimated FY Payroll | \$ | 1,405,899 | | \$ | 1,372,208 | | | |
| Normal Cost (with Expenses) | \$ | 127,858 | 9.09% | \$ | 126,013 | 9.18% | | |
| Employee Contributions | | (48,894) | 3.48% | | (48,161) | 3.51% | | |
| City Normal Cost | | 78,964 | 5.62% | | 77,852 | 5.67% | | |
| Amortization Payment | | 359,558 | 25.57% | | 334,596 | 24.38% | | |
| Minimum Municipal Obligation | | 438,522 | 31.19% | | 412,448 | 30.06% | | |

^{*} Assuming beginning-of-year payment.

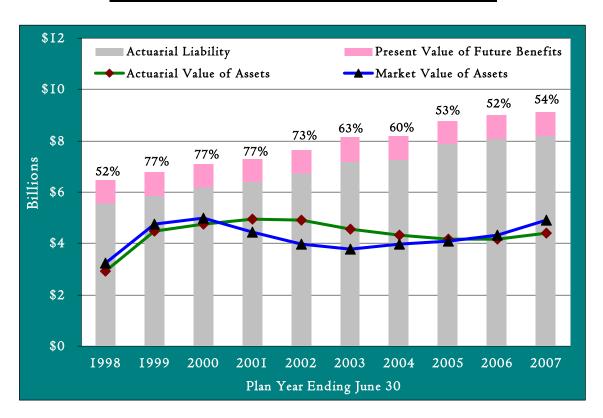


SECTION I BOARD SUMMARY

C. Historical Trends

Even though most of the attention given to the valuation reflects the most recently computed unfunded actuarial liability, funding ratio, and contribution amount, it is important to remember that each valuation is merely a snapshot of the long-term progress of a pension fund. It is equally important to judge a current year's valuation result relative to historical trends, as well as trends expected into the future.

In the chart below, we present the historical trends for the market and actuarial value of assets compared to the actuarial liabilities and present value of future benefits, and we also show the progress of the Retirement System's funding ratios since 1998.



City of Philadelphia Assets and Liabilities – 1998 to 2007

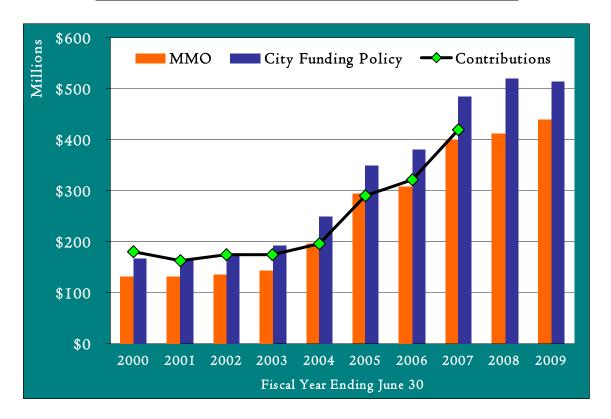
The System's funding ratio has declined significantly in recent years. In 2007, the funding ratio increased for the first time since 1999, primarily due to strong asset performance.



SECTION I BOARD SUMMARY

In the chart below, we present historical trends for the Minimum Municipal Obligation (MMO), the contribution under the City's funding policy, and the actual contribution made for fiscal years since 2000. Because there is a two-year lag in the determination of the City funding policy and MMO requirements, we show the contributions to date and the estimated amounts for fiscal years 2008 and 2009.

City of Philadelphia Contributions for Fiscal Years 2000-2009



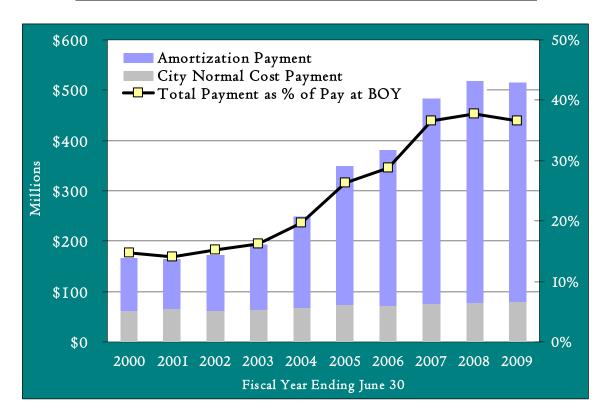
The key trend illustrated in this chart is the rapid escalation in all three measures starting in FY 2004, when the City began to contribute based on the MMO rather than on its traditional funding policy. The chart also shows that the computed funding policy contribution dropped from FY 2008 to FY 2009, whereas the MMO increased. This trend is expected to continue into the future, but may be stalled or reversed if the City decides to contribute the MMO in the future.



SECTION I BOARD SUMMARY

The chart below shows historical amortization payments and City normal cost payments under the City's funding policy, as well as the total beginning-of-year payment as a percentage of payroll.

Funding Policy Contributions by Source for Fiscal Years 2000-2009



The chart shows that the City normal cost payment has remained relatively level over the period shown, but the amortization payment to pay off the unfunded actuarial liability has increased from just over \$100 million for FY 2000 to over \$400 million for FY 2009. Furthermore, the total payment as a percentage of payroll is now nearly 40%, up from less than 15% in FY 2000. However, both the amortization payment and the total payment as a percentage of payroll decreased from the amount due in FY 2008 to the amount due in FY 2009.



SECTION I BOARD SUMMARY

D. Projected Financial Trends

Our analysis of the City of Philadelphia Municipal Retirement System's projected financial trends is an important part of this valuation. In this section, we present our assessment of the implications of the July 1, 2007 valuation results on the future outlook in terms of benefit security (assets over liabilities) and the City's expected cost progression.

In the charts that follow, we project the Retirement System's assets and liabilities, and the City's contributions as a percent of payroll. Unless otherwise noted we assume the Funding Policy contributions are made each year and the System does not switch to rolling amortization when it reaches 70% funded. The projections are provided on two different bases:

- 1) Assuming 8.75% returns each and every year, and
- 2) Assuming returns shown in the table below. These are rates of return which vary each year but over the projection period equal on average the assumed 8.75% return. We do this because the City's return will never be level from year to year.

| Fiscal Year | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Return | 3.0% | 8.0% | 12.0% | 16.0% | 14.0% | 11.0% | 8.0% | 6.0% | 1.0% | -4.0% |
| Fiscal Year | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | |
| Return | 0.0% | 4.0% | 7.0% | 8.0% | 12.0% | 16.0% | 20.0% | 16.0% | 11.5% | |

Unless otherwise stated, we assume the future City contributions will be in accordance with the funding policy.

In reviewing each of these projections, it is the future trends versus the actual values that are important to consider in your deliberation of the risks of the System and the potential volatility of future funding ratios and City contribution levels.



SECTION I BOARD SUMMARY

Projection Set 1: Assets and Liabilities

The two charts below show asset measures (green and gold lines) compared to liabilities (grey and pink bars). At the top of each chart is the progression of the System's funding ratios which compares the actuarial value of assets (gold lines) to the actuarial liability (grey bars). The most revealing insight from these two charts is how varying investment returns impact the System's funding ratios.

54% 100% 62% 68% 74% 81% 89% 97% 99% 100% \$16 Actuarial Liability PVFB Actuarial Value of Assets ■ Market Value of Assets \$14 \$12 \$10 \$8 \$6 \$4 \$2 \$0 2007 2009 2011 2013 2015 2017 2019 2021 2023 2025

Chart 1: Projection of Assets and Liabilities, 8.75% return each year



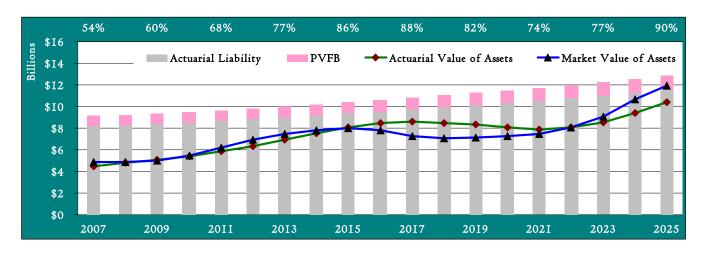
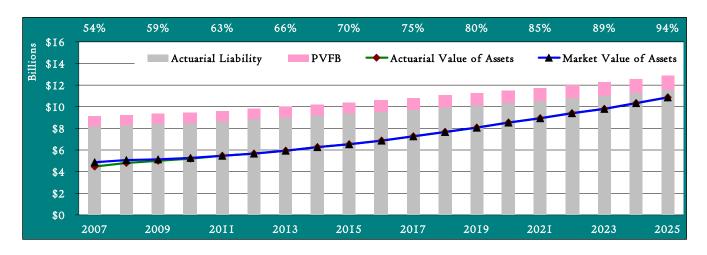


Chart 2 demonstrates how while achieving a long-term return rate of 8.75%, the funding ratio can be adversely impacted by volatile returns year by year. This component of funding risk is driven by negative cash flows (where benefit payments and expenses are greater than contributions). When a mature fund pays out more than it receives in a year when returns are below the assumption, those assets that get paid out are no longer in the fund during subsequent years of market recovery.



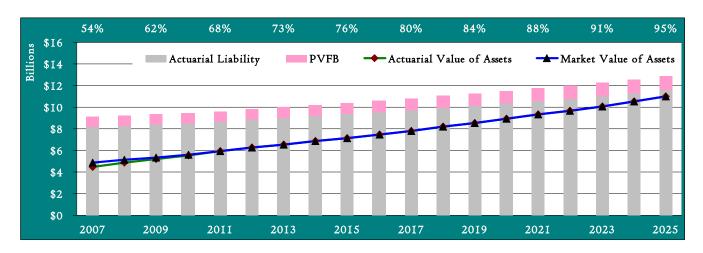
SECTION I BOARD SUMMARY

<u>Chart 3: Projection of Assets and Liabilities, 8.75% return each year, and the City makes contributions based on the MMO</u>



Under this scenario the System does not reach full funding during the projection period. This is compared to full funding being achieved by year 2022 if the City makes contributions based on the Funding Policy (Chart 1).

<u>Chart 4: Projection of Assets and Liabilities, under the Funding Policy, 8.75% return each year, and application of rolling 10 year amortization once the Fund is 70% funded</u>





SECTION I BOARD SUMMARY

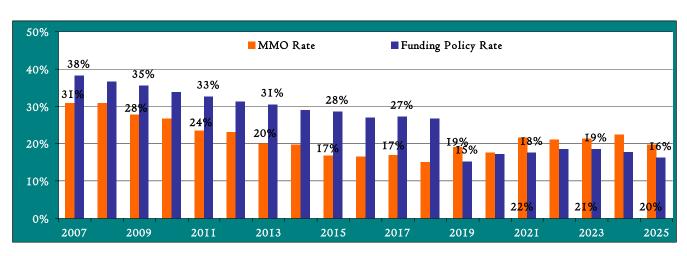
Projection Set 2: Projected City Contribution Rate

The chart below shows that the City's composite contribution rate is projected to decline slowly as a percent of payroll until the initial unfunded actuarial liability base gets paid off, after which the cost quickly reverts to the normal cost rate. This assumes all actuarial assumptions are met, including the 8.75% anticipated investment return assumption, and the Funding Policy contributions are made each year.

50% ■MMO Rate ■ Funding Policy Rate <u>38</u>% 40% 35% 32% 31% 30% 29% 30% 20% 1 <u>1</u>4/8/ 10% 6% 6% 0% 2007 2009 2011 2013 2015 2017 2019 2021 2023 2025

Chart 5: Projection of City Contributions, 8.75% return each year





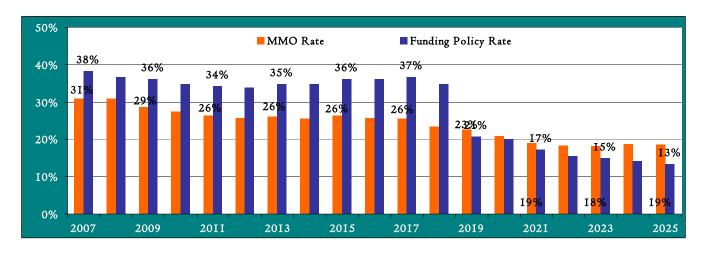
As shown above, varying returns have a significant impact on the computed City contribution rate. What it illustrates is that the UAL may not disappear even if the anticipated return is achieved over the period of amortization of the current UAL. This is because market volatility can prolong the period of paying down the unfunded when coupled with the impact of negative cash flows in down markets.



SECTION I BOARD SUMMARY

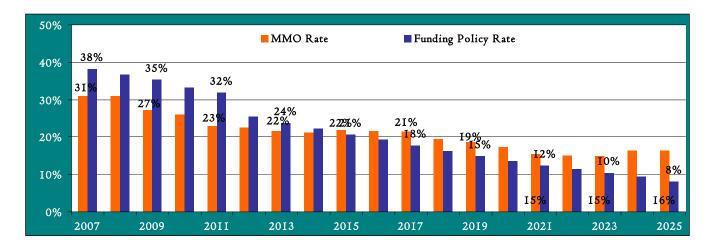
<u>Chart 7: Projection of City Contributions, 8.75% return each year,</u> and the City makes contributions based on the MMO

This chart shows the expected future contribution if only the MMO is contributed each year.



<u>Chart 8: Projection of City Contributions, 8.75% return each year,</u> and application of rolling 10-year amortization once the Fund is 70% funded

Under Act 205, if the plan is 70% funded or higher, the City can adopt the policy of annually reamortizing the unfunded liability over 10 years. This creates a smoother funding requirement than continued funding using the various amortization bases. The following chart illustrates how this provision could affect the future funding requirements.





SECTION II ASSETS

The Retirement System uses and discloses two different asset measurements which are presented in this Section of the report: market value and actuarial value of assets. The market value represents the value of the assets if they were liquidated on the valuation date. The actuarial value of assets is a value that smooths annual investment return performance over multiple years to reduce annual investment volatility, and is used in determining contribution levels.

On the following pages we present detailed information on System assets:

- Disclosure of assets at July 1, 2006 and July 1, 2007,
- Statement of cash flows during the year,
- Development of the actuarial value of assets,
- Apportionment of assets between plans for valuation purposes,
- Development of the Pension Adjustment Fund as of July 1, 2007, and
- Disclosure of investment performance for the year.



SECTION II ASSETS

A. Disclosure

The market value of assets represents a "snap-shot" value as of the last day of the fiscal year that provides the principal basis for measuring financial performance from one year to the next. Market values, however, can fluctuate widely with corresponding swings in the marketplace. Because these fluctuations would cause volatility in employer contributions, an actuarial value of assets is developed. Table II-1 below discloses the market value by asset class of System assets as of July 1, 2006 and July 1, 2007. Table II-2 discloses the System's net cash flows for the plan year beginning July 1, 2006 and ending June 30, 2007. Tables II-3 and II-4 disclose Fiscal 2007 City contributions and administrative expenses, respectively.

| Table II-1 | | | | | | |
|-----------------------------------|-----------|-----------------|----|---------------|--|--|
| Statement | of Assets | at Market Value | | | | |
| | | 7/1/2007 | | 7/1/2006 | | |
| Assets | | | | | | |
| Cash | \$ | 46,108,182 | \$ | 21,931,505 | | |
| Investments | | 4,909,719,150 | | 4,349,089,071 | | |
| Securities Lending | | 443,072,876 | | 404,307,762 | | |
| Accounts Receivable | | 3,652,018 | | 4,077,069 | | |
| Due from Brokers | | 72,682,026 | | 29,625,495 | | |
| Interest and Dividends Receivable | | 9,277,796 | | 7,377,285 | | |
| Due from Other Governmental Units | | 5,157,886 | | 3,513,290 | | |
| Total Assets | \$ | 5,489,669,934 | \$ | 4,819,921,477 | | |
| <u>Liabilities</u> | | | | | | |
| Vouchers Payable | \$ | 103,554 | \$ | 30,238 | | |
| Accounts Payable | | 3,704,007 | | 4,290,750 | | |
| Salaries and Wages Payable | | 126,509 | | 109,716 | | |
| Due on Securities Lending | | 443,072,876 | | 404,307,762 | | |
| Due to Brokers | | 139,569,581 | | 90,676,821 | | |
| Accrued Expenses | | 1,074,659 | | 1,165,356 | | |
| Deferred Revenue | | 1,971,243 | | 2,227,796 | | |
| Monies Held in Escrow | | 376,989 | | - | | |
| Other Liabilities | | 315,395 | | 526,792 | | |
| Total Liabilities | \$ | 590,314,813 | \$ | 503,335,230 | | |
| Net Assets | \$ | 4,899,355,121 | \$ | 4,316,586,247 | | |



SECTION II ASSETS

B. System Cash Flows for the Year July 1, 2006 through July 1, 2007

| Table II-2 | | | | | | | | | |
|---|-----------------|----|---------------|--|--|--|--|--|--|
| Changes in Market Values | | | | | | | | | |
| Value of Assets – July 1, 2006 | | \$ | 4,316,586,247 | | | | | | |
| Additions | | | | | | | | | |
| Contributions: | | | | | | | | | |
| Employer Contributions | \$ 432,267,154 | | | | | | | | |
| Employee Contributions | 49,179,796 | | | | | | | | |
| Total Contributions | | \$ | 481,446,951 | | | | | | |
| Investment Income: | | | | | | | | | |
| Gain/(Loss) from Sale of Investments | \$ 701,730,084 | | | | | | | | |
| Interest and Dividends | 80,310,939 | | | | | | | | |
| Total Investment Income | 782,041,023 | | | | | | | | |
| Investment Activity Expenses: | | | | | | | | | |
| Investment Expenses | \$ (17,126,785) | | | | | | | | |
| Total Investment Activity Expenses | (17,126,785) | | | | | | | | |
| Securities Lending Activities: | | | | | | | | | |
| Securities Lending Income | \$ 21,836,851 | | | | | | | | |
| Securities Lending Expenses | (20,758,342) | | | | | | | | |
| Net Income from Securities Lending Activities | 1,078,509 | | | | | | | | |
| Net Investment Income | | \$ | 765,992,747 | | | | | | |
| Miscellaneous Operating Revenues | | \$ | 1,963,034 | | | | | | |
| Total Additions | | \$ | 1,249,402,733 | | | | | | |
| <u>Deductions</u> | | | | | | | | | |
| Administrative Expenses | \$ (6,530,395) | | | | | | | | |
| Withdrawal Refunds | (4,474,385) | | | | | | | | |
| Benefit Payments | (655,629,079) | | | | | | | | |
| Total Deductions | | \$ | (666,633,859) | | | | | | |
| <u>Total</u> | | | | | | | | | |
| Net Increase (Decrease) | | \$ | 582,768,874 | | | | | | |
| Value of Assets – July 1, 2007 | | | 4,899,355,121 | | | | | | |



SECTION II ASSETS

| Table II-3 | | | | | | | |
|---|----|------------------------|--|--|--|--|--|
| City Contributions for the Plan Year Ending June 30, 2007 | | | | | | | |
| Cash Received, July 20, 2006 | \$ | 400,534,000 | | | | | |
| Cash Received, September 13, 2007 | | 18,706,948 | | | | | |
| Quasi-Agencies | | | | | | | |
| Cash Received | | 8,141,593 4,884,614 | | | | | |
| Accrued as of June 30, 2007 | | 4,884,614 | | | | | |
| Total | \$ | 432,267,154 | | | | | |

| Table II-4 | | | | | | | |
|--|----|-----------|--|--|--|--|--|
| Administrative Expenses for the Plan Year Ending June 30, 2007 | | | | | | | |
| Personal Services | \$ | 3,626,245 | | | | | |
| Purchase of Services | | 1,183,273 | | | | | |
| Materials and Supplies | | 104,065 | | | | | |
| Employer's Share of Fringe Benefits | | 1,562,070 | | | | | |
| Miscellaneous | | 54,742 | | | | | |
| Total | \$ | 6,530,395 | | | | | |



SECTION II ASSETS

C. Actuarial Value of Assets

To determine on-going funding requirements, most pension funds utilize an actuarial value of assets that differs from the market value of assets. The actuarial value of assets represents an asset value based on averaging or smoothing year-to-year market value returns for purposes of reducing the resulting volatility on contributions.

| Table II-5 Development of Actuarial Value of Assets as of July 1, 2007 | | | | | | | | |
|--|-----------|---|----------------------------------|--------------------------------|----|---|--|--|
| Market Value of Assets as of July 1, 2007 \$ 4,8 | | | | | | | | |
| Pension Adju Before Add | \$ | 1,173,012 | | | | | | |
| Market Value | e of Asse | ts Net of PAF | | | \$ | 4,898,182,109 | | |
| Plan Year | | | | | | | | |
| 2002 2003 2004 2005 2006 | \$ | (282,744,547) 265,309,761 30,013,180 99,429,256 380,531,307 | 100% 80% 60% 40% 20% | 0% 20% 40% 60% 80% | \$ | 53,061,952 12,005,272 59,657,554 304,425,046 | | |
| Total | | 300,331,307 | 2070 | 30 70 | \$ | 429,149,824 | | |
| Preliminary A | Actuarial | Value as of July 1, | 2007 | | \$ | 4,469,032,285 | | |
| Corridor for A 80% of Mark 120% of Mar | et Value | \$ | 3,918,545,687 5,877,818,531 | | | | | |
| Additional PAF Transfer as of July 1, 2007 | | | | | | 47,298,578 | | |
| | | sets Net of PAF as over Value Net of PA | <u>-</u> | | \$ | 4,421,733,707 90.3% | | |



SECTION II ASSETS

D. Apportionment of Actuarial Value of Assets

The asset apportionment reflects the actual cash flows for each plan and proportional allocation of investment earnings.

| Alloca | tion of Asset | s fo | or Valuat | | Table II-6 1 Purposes | Bet | ween Pla | ns a | as of July | 7 1 . | 2007 | | | |
|---|---------------|------|-----------|----|--------------------------|-----|-----------|------|------------|--------------|---------|----|---------|--------------|
| Allocation of Assets for Valuation Purposes Between Plans as of July 1, 2007 (\$ thousands) | | | | | | | | | | | | | | |
| | | 1 | 967 Plan | ` | | | | | | | | | | |
| | Municipal | | Police | | Fire | N | Iunicipal |] | Elected | | Police | | Fire | Total |
| Actuarial Value of Assets | | | | | | | | | | | | | | |
| as of July 1, 2006 | \$ 1,995,978 | \$ | 872,120 | \$ | 408,771 | \$ | 413,048 | \$ | 11,851 | \$ | 374,305 | \$ | 92,393 | \$ 4,168,467 |
| 2. Transactions During Plan Year | | | | | | | | | | | | | | |
| July 1, 2006 to June 30, 2007 | | | | | | | | | | | | | | |
| a. Contributions | | | | | | | | | | | | | | |
| City and Commonwealth | \$ 189,035 | \$ | 132,780 | \$ | 43,227 | \$ | 25,587 | \$ | 243 | \$ | 22,264 | \$ | 6,105 | \$ 419,241 |
| Employees | 12,521 | | 4,845 | | 2,428 | | 11,709 | | 157 | | 13,532 | | 3,988 | 49,180 |
| Quasi-Public Agencies | 13,026 | | - | | - | | - | | - | | - | | - | 13,026 |
| b. Misc. Income & Expenses | 1,256 | | 336 | | 161 | | 101 | | 1 | | 82 | | 27 | 1,963 |
| c. Benefit Payments | (354,205) | | (201,721) | | (84,649) | | (6,922) | | (390) | | (6,110) | | (1,631) | (655,629) |
| d. Withdrawals | (1,157) | | (291) | | (169) | | (1,830) | | (1) | | (867) | | (160) | (4,474) |
| e. Administrative Expenses | (2,856) | | (1,146) | | (415) | | (1,448) | | (4) | | (515) | | (145) | (6,530) |
| f. Net Transactions | \$ (142,381) | \$ | (65,198) | \$ | (39,417) | \$ | 27,197 | \$ | 6 | \$ | 28,385 | \$ | 8,183 | \$ (183,224) |
| 3. Total Fund Balance Prior to Allocation | | | | | | | | | | | | | | |
| of Investment Income [1. + 2f.] | \$ 1,853,597 | \$ | 806,922 | \$ | 369,354 | \$ | 440,245 | \$ | 11,857 | \$ | 402,691 | \$ | 100,576 | \$ 3,985,243 |
| 4. Investment Income During Plan Year | | | | | | | | | | | | | | |
| July 1, 2006 to June 30, 2007 | \$ 203,018 | \$ | 88,380 | \$ | 40,454 | \$ | 48,219 | \$ | 1,299 | \$ | 44,105 | \$ | 11,016 | \$ 436,491 |
| 5. Actuarial Value of Assets | | | | | | | | | | | | | | |
| as of July 1, 2007 [3. + 4.] | \$ 2,056,616 | \$ | 895,302 | \$ | 409,809 | \$ | 488,464 | \$ | 13,156 | \$ | 446,796 | \$ | 111,592 | \$ 4,421,734 |



SECTION II ASSETS

E. Development of the Pension Adjustment Fund as of July 1, 2007

The table below provides the funds available for distribution consideration under title §22-311 of the Philadelphia Code. In general, the Pension Adjustment Fund (PAF) provides for enhanced benefit distribution to retirees and beneficiaries through the use of excess earnings. This may include a lump-sum bonus payment, monthly pension increases, ad-hoc cost of living adjustments, or some other increase determined by the Board.

| | Table II-7 | | |
|----|---|-------------|---------------|
| | Development of the Pension Adjustment I as of July 1, 2007 | Yund | |
| 1. | PAF on July 1, 2006 | \$ | 992,983 |
| 2. | Market Value Asset Return Through June 30, 2007 | | 18.13% |
| 3. | PAF on July 1, 2007 Before Additional Transfers =(1) x [1 + (2)] | \$ | 1,173,012 |
| 4. | Preliminary Actuarial Asset Value Through June 30, 2007 | \$ | 4,469,032,285 |
| 5. | Actuarial Asset Value Return Through June 30, 2007 | | 11.87% |
| 6. | Return in Excess of Investment Assumption Plus 1.0%, Limited to $5.0\% = (5) - [8.75\% + 1.00\%]$ | | 2.12% |
| 7. | Additional Transfer as of July 1, 2007 =50% of (6) x (4) | \$ | 47,298,578 |
| 8. | Total PAF as of July 1, 2007 = (3) + (7) | \$ | 48,471,590 |



SECTION II ASSETS

F. Investment Performance

The market value of assets internal rate of return (net of PAF) was 16.98% for the year ending July 1, 2007. This is compared to an assumed return of 8.75%. The return for the year ending July 1, 2006 was 11.34%.

On an actuarial value of assets basis (net of PAF), the return for FY 2007 was 10.71%. This return produced an overall investment gain of \$65.0 million for the year ending July 1, 2007. Last year the actuarial value basis returned 6.10% due to the five-year smoothing method.

| | | Table II-8 | | | | | | | | | | | |
|----------------------|------------------------|-------------------|---|---|--|--|--|--|--|--|--|--|--|
| | Annual Rates of Return | | | | | | | | | | | | |
| Year Ending June 30, | Market Value * | Actuarial Value * | Total Return Standard & Poor's 500 Index | Lehman Brothers Aggregate Bond Index | | | | | | | | | |
| 1994 | 1.6% | 7.8% | 1.3% | -1.5% | | | | | | | | | |
| 1995 | 11.7% | 7.8% | 26.1% | 12.8% | | | | | | | | | |
| 1996 | 15.1% | 10.1% | 26.0% | 4.7 % | | | | | | | | | |
| 1997 | 18.3% | 12.2% | 34.6% | 8.2% | | | | | | | | | |
| 1998 | 14.3% | 13.1% | 30.2% | 10.5% | | | | | | | | | |
| 1999 | 10.0% | 13.1% | 22.7% | 3.1% | | | | | | | | | |
| 2000 | 9.6% | 11.1% | 7.3% | 4.6% | | | | | | | | | |
| 2001 | -6.0% | 8.3% | -14.8% | 11.2% | | | | | | | | | |
| 2002 | -5.8% | 3.4% | -18.0% | 8.6% | | | | | | | | | |
| 2003 | 1.8% | -2.2% | 0.3% | 10.4% | | | | | | | | | |
| 2004 | 16.6% | 4.6% | 19.1% | 0.3% | | | | | | | | | |
| 2005 | 9.9% | 1.8% | 6.3% | 6.8% | | | | | | | | | |
| 2006 | 11.3% | 6.1% | 8.6% | -0.8% | | | | | | | | | |
| 2007 | 17.0% | 10.7% | 20.6% | 6.1% | | | | | | | | | |

^{*} Net of PAF



SECTION III LIABILITIES

In this section, we present detailed information on liabilities for the City of Philadelphia Municipal Retirement System, including:

- Disclosure of liabilities at July 1, 2006 and July 1, 2007, and
- Statement of changes in these liabilities during the year.

A. Disclosure

Several types of liabilities are calculated and presented in this report. Each type is distinguished by the purpose for which the figures are ultimately used.

- **Present Value of all Future Benefits:** Used for measuring all future obligations, this represents the amount of money needed today to fully pay off all benefits both earned as of the valuation date and those to be earned in the future by current Plan participants, under the current Plan provisions and assumptions.
- Actuarial Liability: Used for determining employer contributions and GASB accounting disclosures. This liability is calculated by subtracting the present value of future member contributions and future employer normal costs as determined under the Entry Age Normal Cost (EAN) actuarial funding method from the present value of all future benefits.



SECTION III LIABILITIES

Table III-1 shows the present value of future benefits, actuarial liability, and unfunded actuarial liability as of July 1, 2007, and July 1, 2006, for the Retirement System.

| Table | Ш | -1 | | | | | | | | | | |
|----------------------------------|-----|--------------|----|---------------|--|--|--|--|--|--|--|--|
| Disclosure of Liabilities | | | | | | | | | | | | |
| (\$ thou | san | ds) | | | | | | | | | | |
| | | July 1, 2007 | | July 1, 2006 | | | | | | | | |
| Present Value of Future Benefits | | | | | | | | | | | | |
| Actives | \$ | 3,676,057 | \$ | 3,633,976 | | | | | | | | |
| Terminated Vesteds | | 104,467 | | 65,196 | | | | | | | | |
| Disabled | | 605,573 | | 602,784 | | | | | | | | |
| Retirees | | 3,443,250 | | 3,243,723 | | | | | | | | |
| Beneficiaries | | 451,236 | | 442,936 | | | | | | | | |
| DROP | | 825,910 | | 991,848 | | | | | | | | |
| Non-Vested Refunds | | 5,453 | | 5,69 <u>6</u> | | | | | | | | |
| Total City PVFB | \$ | 9,111,945 | \$ | 8,986,159 | | | | | | | | |
| · | | | | | | | | | | | | |
| Actuarial Liability | | | | | | | | | | | | |
| Actives | \$ | 2,761,320 | \$ | 2,731,484 | | | | | | | | |
| Terminated Vesteds | | 104,467 | | 65,196 | | | | | | | | |
| Disabled | | 605,573 | | 602,784 | | | | | | | | |
| Retirees | | 3,443,250 | | 3,243,723 | | | | | | | | |
| Beneficiaries | | 451,236 | | 442,936 | | | | | | | | |
| DROP | | 825,910 | | 991,848 | | | | | | | | |
| Non-Vested Refunds | _ | 5,453 | | 5,696 | | | | | | | | |
| Total City AL | \$ | 8,197,209 | \$ | 8,083,667 | | | | | | | | |
| | | | | | | | | | | | | |
| Actuarial Value of Assets | l_ | (4,421,734) | _ | (4,168,467) | | | | | | | | |
| Unfunded Actuarial Liability | \$ | 3,775,476 | \$ | 3,915,200 | | | | | | | | |



SECTION III LIABILITIES

Table III-2 shows the present value of future benefits, actuarial liability, and unfunded actuarial liability for each Plan in the Retirement System.

| | Table III-2 Liabilities Detail as of July 1, 2007 | | | | | | | | | | | | |
|----------------------------------|--|-----------------|-----|-----------|-----|------------|----|----------|----|-----------|----|-----------|--------------|
| | | Liabilitie | | | | ıly 1, 200 | / | | | | | | |
| | | | (\$ | thousand | ls) | | | | | | | | |
| | 1967 Plan 1987 Plan | | | | | | | | | | | | |
| | Municipal | Police | | Fire | N. | Municipal | | Elected | | Police | | Fire | Total |
| Present Value of Future Benefits | Ф 1 220 111 | 45.4.222 | ф | 104.004 | Ф | 706060 | ф | 0.467 | Φ. | 764040 | Ф | 200.061 | Ф 2 676 057 |
| Actives | \$ 1,339,111 | \$ 454,232 | \$ | 194,084 | \$ | 706,060 | \$ | 9,467 | \$ | 764,242 | \$ | 208,861 | \$ 3,676,057 |
| Terminated Vesteds | 77,055 | 1,983 | | - | | 17,693 | | - | | 5,999 | | 1,738 | 104,467 |
| Disabled | 230,739 | 253,383 | | 63,060 | | 14,735 | | 2.010 | | 37,705 | | 5,951 | 605,573 |
| Retirees | 1,828,318 | 1,128,016 | | 443,199 | | 33,094 | | 2,910 | | 5,645 | | 2,067 | 3,443,250 |
| Beneficiaries | 258,314 | 129,870 | | 50,624 | | 5,085 | | 480 | | 4,576 | | 2,286 | 451,236 |
| DROP | 525,126 | 151,615 | | 125,449 | | 16,860 | | 4,699 | | 1,639 | | 521 | 825,910 |
| Non-Vested Refunds | 1,976 | 161 | | 54 | | 2,667 | | - | | 452 | | 144 | 5,453 |
| Total PVFB | \$ 4,260,638 | \$ 2,119,260 | \$ | 876,471 | \$ | 796,194 | \$ | 17,556 | \$ | 820,257 | \$ | 221,567 | \$ 9,111,945 |
| Actuarial Liability | | | | | | | | | | | | | |
| Actives | \$ 1,174,871 | \$ 392,544 | \$ | 170,818 | \$ | 461,766 | \$ | 8,551 | \$ | 441,710 | \$ | 111,061 | \$ 2,761,320 |
| Terminated Vesteds | 77,055 | 1,983 | | , - | | 17,693 | | , - | | 5,999 | | 1,738 | 104,467 |
| Disabled | 230,739 | 253,383 | | 63,060 | | 14,735 | | _ | | 37,705 | | 5,951 | 605,573 |
| Retirees | 1,828,318 | 1,128,016 | | 443,199 | | 33,094 | | 2,910 | | 5,645 | | 2,067 | 3,443,250 |
| Beneficiaries | 258,314 | 129,870 | | 50,624 | | 5,085 | | 480 | | 4,576 | | 2,286 | 451,236 |
| DROP | 525,126 | 151,615 | | 125,449 | | 16,860 | | 4,699 | | 1,639 | | 521 | 825,910 |
| Non-Vested Refunds | 1,976 | 161 | | 54 | | 2,667 | | | | 452 | | 144 | 5,453 |
| Total AL | \$ 4,096,398 | \$ 2,057,572 | \$ | 853,205 | \$ | 551,900 | \$ | 16,641 | \$ | 497,726 | \$ | 123,767 | \$ 8,197,209 |
| | | | | | | | | | | | | | |
| Actuarial Value of Assets | (2,056,616) | (895,302) | | (409,809) | _ | (488,464) | | (13,156) | _ | (446,796) | _ | (111,592) | (4,421,734) |
| Unfunded Actuarial Liability | \$ 2,039,783 | \$ 1,162,270 | \$ | 443,396 | \$ | 63,436 | \$ | 3,485 | \$ | 50,930 | \$ | 12,175 | \$ 3,775,476 |



SECTION III LIABILITIES

Table III-3 shows the derivation of the city normal cost as a percent of pay for each Plan in the System.

Table III-3 Derivation of the Normal Cost as of July 1, 2007 (\$ thousands) 1967 Plan 1987 Plan Municipal Municipal **Police** Fire **Elected** Police Fire Total 18,569 9,078 \$ \$ \$ \$ 7,804 80,715 Retirement 16.251 3,804 148 25,061 991 385 180 1,752 1,091 380 4,793 Death 14 3.894 10,927 Disability 2.341 806 18 2,773 784 311 Termination 2,212 19,305 5,661 766 304 9.714 75 571 3,050 1,232 1,679 608 7,200 441 186 Administrative Expenses Total Normal Cost 31,745 9,727 28,295 12,266 35,609 \$ 259 122,940 5,040 \$ 47,013 11,242 4,730 \$ 1,963 10,664 160 14,085 4,170 **Expected Employee Contributions** City Normal Cost \$ \$ \$ 17,053 \$ 7,537 3,077 \$ 24,944 99 17,660 5,556 75,927 Current Annual Payroll 299,776 78,827 \$ 32,714 \$ 573,344 \$ 281,697 83,407 \$1,351,826 2,061 City Normal Cost as % of Pay, Beginning of Year Payment 9.407% 5.617% 5.689% 9.561% 4.351% 4.803% 6.269% 6.662% City Normal Cost as % of Pay, 10.397% 10.230% 4.731% 6.108% 6.186% 5.224% 6.818% 7.244% End of Year Payment



SECTION III LIABILITIES

Table III-4 shows changes in the unfunded actuarial liability from July 1, 2006 to July 1, 2007 due to actuarial experience; there were no assumption or plan changes. It also shows the development of the expected unfunded actuarial liability from July 1, 2007 to July 1, 2008.

| Table III-4 | | | | | | | | | | | | | | |
|---|---|--------------|----|----------|----|----------|----------------|-------|----|----------|----|---------|-------|-----------|
| Expected | Expected Unfunded Actuarial Liability for the Plan Year Ending June 30, 2008 (\$ thousands) | | | | | | | | | | | | | |
| (\$ uiousanus) 1967 Plan | | | | | | | | | | | | | | |
| | Municipal | Police | | Fire | M | unicipal | Elected Police | | | | | Fire | Total | |
| 1. Expected Unfunded Actuarial Liability | | | | - | | | | | | | | - | | |
| (UAL) as of July 1, 2007 Based on July 1, | | | | | | | | | | | | | | |
| 2006 Valuation | \$ 2,027,131 | \$ 1,179,047 | \$ | 451,859 | \$ | 62,180 | \$ | 2,741 | \$ | 76,450 | \$ | 15,582 | \$ 3 | 3,814,990 |
| 2. Changes in UAL due to | | | | | | | | | | | | | | |
| a. Actuarial Experience | \$ 12,651 | \$ (16,777) | \$ | (8,463) | \$ | 1,256 | \$ | 744 | \$ | (25,520) | \$ | (3,407) | \$ | (39,514) |
| b. Assumption Changes | - | - | Ċ | - | Ċ | - | Ė | - | Ċ | - | Ė | - | · | - |
| c. Active Plan Changes | - | - | | - | | - | | _ | | - | | - | | _ |
| d. Inactive Plan Changes | - | - | | - | | - | | - | | - | | - | | _ |
| e. Subtotal | \$ 12,651 | \$ (16,777) | \$ | (8,463) | \$ | 1,256 | \$ | 744 | \$ | (25,520) | \$ | (3,407) | \$ | (39,514) |
| 3. Actual UAL as of July 1, 2007 [1. + 2e.] | \$ 2,039,783 | \$ 1,162,270 | \$ | 443,396 | \$ | 63,436 | \$ | 3,485 | \$ | 50,930 | \$ | 12,175 | \$ 3 | 3,775,476 |
| l · | | | | | | | | | | | | | | |
| 4. Expected Changes in UAL from July 1, | | | | | | | | | | | | | | |
| 2007 to July 1, 2008 due to | | | _ | | _ | | | | | | _ | (===) | _ | |
| a. Interest on Changes in UAL | \$ 1,107 | \$ (1,468) | \$ | (740) | | 110 | \$ | 65 | \$ | (2,233) | \$ | (298) | \$ | (3,457) |
| b. FY 2008 Amortization Contribution | (80,772) | (49,365) | _ | (15,113) | | (260) | | (88) | | (568) | | 178 | | (145,987) |
| c. Subtotal | \$ (79,665) | \$ (50,833) | \$ | (15,854) | \$ | (150) | \$ | (23) | \$ | (2,800) | \$ | (120) | \$ | (149,445) |
| 5. Expected UAL as of July 1, 2008 [3. + 4c.] | \$ 1,960,118 | \$ 1,111,437 | \$ | 427,542 | \$ | 63,287 | \$ | 3,462 | \$ | 48,129 | \$ | 12,056 | \$ 3 | 3,626,031 |



SECTION III LIABILITIES

Tables III-5a to III-5h show the development of the Fiscal Year 2009 payments toward the unfunded actuarial liability for each Plan in the System.

| Table III-5a Development of the Fiscal Year 2009 Amortization Payment under the City's Funding Policy 1967 Plan - Municipal | | | | | | | | | | | | | | |
|---|--|--------------------|-----|------------------|----------------------|----|-----------------|-------------|------------------|--|--|--|--|--|
| | (\$ thousands) 7/1/2007 7/1/2008 Remaining FY 2009 Payment FY 2009 Payment | | | | | | | | | | | | | |
| | Outst | tanding Balance | Exp | ected Balance | Years | | inning-of-Year | End-of-Year | | | | | | |
| 1. Expected Unfunded Actuarial Liability (UAL) as of July 1, 2007 Based on July 1, 2006 Valuation | | - | _ | | | | - | | | | | | | |
| a. Dombrowski b. Remaining | \$ | 1,878 2,025,254 | \$ | 978 1,945,381 | 1 | \$ | 978 232,880 | \$ | 1,064 253,257 | | | | | |
| c. Subtotal | \$ | 2,027,131 | \$ | 1,946,360 | | \$ | 233,858 | \$ | 254,320 | | | | | |
| 2. Changes in UAL due to a. Actuarial Experience b. Assumption Changes c. Active Plan Changes d. Inactive Plan Changes | \$ | 12,651 - - | \$ | 13,758 | 15 20 20 15 | \$ | 1,546 - - | \$ | 1,682 - - | | | | | |
| e. Subtotal | \$ | 12,651 | \$ | 13,758 | | \$ | 1,546 | \$ | 1,682 | | | | | |
| 3. Total [1c. + 2e.] | \$ | 2,039,783 | \$ | 1,960,118 | | \$ | 235,404 | \$ | 256,002 | | | | | |



SECTION III LIABILITIES

Table III-5b Development of the Fiscal Year 2009 Amortization Payment under the City's Funding Policy 1967 Plan - Police (\$ thousands) 7/1/2007 7/1/2008 Remaining FY 2009 Payment FY 2009 Payment **Outstanding Balance Expected Balance** Years Beginning-of-Year End-of-Year 1. Expected Unfunded Actuarial Liability (UAL) as of July 1, 2007 Based on July 1, 2006 Valuation a. Dombrowski \$ 1,201 626 680 626 1 b. Remaining 1,177,846 1,129,056 141,615 154,006 c. Subtotal \$ 1,179,047 \$ 1,129,682 \$ 142,240 \$ 154,686 2. Changes in UAL due to a. Actuarial Experience \$ (16,777) \$ (18,245)\$ (2,051) \$ (2,230)15 b. Assumption Changes 20 c. Active Plan Changes 20 d. Inactive Plan Changes 15 (16,777) \$ (2,051) \$ \$ (18,245)\$ (2,230)e. Subtotal 3. Total [1c. + 2e.] \$ 1,162,270 \$ 140,190 \$ 152,456 1,111,437



SECTION III LIABILITIES

Table III-5c Development of the Fiscal Year 2009 Amortization Payment under the City's Funding Policy 1967 Plan - Fire (\$ thousands) 7/1/2007 7/1/2008 Remaining FY 2009 Payment FY 2009 Payment Beginning-of-Year **Outstanding Balance Expected Balance** Years End-of-Year 1. Expected Unfunded Actuarial Liability (UAL) as of July 1, 2007 Based on July 1, 2006 Valuation a. Dombrowski \$ 478 249 271 249 1 b. Remaining 451,380 436,496 50,786 55,230 c. Subtotal \$ 451,859 \$ \$ 51,035 \$ 55,501 436,745 2. Changes in UAL due to (9,203)a. Actuarial Experience \$ (8,463) \$ \$ (1,034) \$ (1,125)15 b. Assumption Changes 20 c. Active Plan Changes 20 d. Inactive Plan Changes 15 (8,463) \$ (1,034) \$ \$ (9,203)\$ (1,125)e. Subtotal 3. Total [1c. + 2e.] \$ 443,396 \$ 427,542 50,001 \$ 54,376



SECTION III LIABILITIES

Table III-5d Development of the Fiscal Year 2009 Amortization Payment under the City's Funding Policy Plan 87 - Municipal (\$ thousands) 7/1/2007 7/1/2008 FY 2009 Payment Remaining FY 2009 Payment **Outstanding Balance Expected Balance** Years Beginning-of-Year End-of-Year 1. Expected Unfunded Actuarial Liability (UAL) as of July 1, 2007 \$ 62,180 61,919 5,143 5,593 \$ Based on July 1, 2006 Valuation 2. Changes in UAL due to a. Actuarial Experience \$ 1,256 1,367 \$ 154 167 15 b. Assumption Changes 20 c. Active Plan Changes 20 d. Inactive Plan Changes 15 e. Subtotal 1,256 154 167 \$ 1,367 \$ 3. Total [1. + 2e.] 63,436 \$ 63,287 \$ 5,296 5,760



SECTION III LIABILITIES

Table III-5e Development of the Fiscal Year 2009 Amortization Payment under the City's Funding Policy Plan 87 - Elected (\$ thousands) 7/1/2007 7/1/2008 FY 2009 Payment Remaining FY 2009 Payment **Outstanding Balance Expected Balance** Years Beginning-of-Year End-of-Year 1. Expected Unfunded Actuarial Liability (UAL) as of July 1, 2007 \$ 2,741 \$ 247 268 2,653 Based on July 1, 2006 Valuation 2. Changes in UAL due to a. Actuarial Experience \$ 744 809 \$ 91 \$ 99 15 b. Assumption Changes 20 c. Active Plan Changes 20 d. Inactive Plan Changes 15 e. Subtotal 744 91 99 \$ \$ 809 3. Total [1. + 2e.] 3,485 3,462 \$ 338 367



SECTION III LIABILITIES

Table III-5f Development of the Fiscal Year 2009 Amortization Payment under the City's Funding Policy Plan 87 - Police (\$ thousands) 7/1/2007 7/1/2008 Remaining FY 2009 Payment FY 2009 Payment **Outstanding Balance Expected Balance** Years Beginning-of-Year End-of-Year 1. Expected Unfunded Actuarial Liability (UAL) as of July 1, 2007 \$ 76,450 7,305 75,882 \$ 6,717 Based on July 1, 2006 Valuation 2. Changes in UAL due to a. Actuarial Experience \$ (25,520) \$ \$ (3,119) \$ (3,392)(27,753)15 b. Assumption Changes 20 c. Active Plan Changes 20 d. Inactive Plan Changes 15 e. Subtotal (3,119) \$ (3,392)\$ (25,520) \$ (27,753)3. Total [1. + 2e.] \$ 50,930 \$ 48,129 \$ 3,598 3,913



SECTION III LIABILITIES

Table III-5g Development of the Fiscal Year 2009 Amortization Payment under the City's Funding Policy Plan 87 - Fire (\$ thousands) 7/1/2007 7/1/2008 Remaining FY 2009 Payment FY 2009 Payment **Outstanding Balance Expected Balance** Years Beginning-of-Year End-of-Year 1. Expected Unfunded Actuarial Liability (UAL) as of July 1, 2007 \$ 15,582 1,119 1,217 15,761 \$ Based on July 1, 2006 Valuation 2. Changes in UAL due to a. Actuarial Experience \$ (3,407) \$ \$ (416) \$ (453)(3.705)15 b. Assumption Changes 20 c. Active Plan Changes 20 d. Inactive Plan Changes 15 e. Subtotal (3,407) \$ (453) \$ (3,705)(416) \$ 3. Total [1. + 2e.] 12,175 12,056 \$ 703 764



SECTION III LIABILITIES

Table III-5h Development of the Fiscal Year 2009 Amortization Payment under the City's Funding Policy **Total - All Divisions** (\$ thousands) 7/1/2007 7/1/2008 Remaining FY 2009 Payment FY 2009 Payment **Outstanding Balance Expected Balance** Years Beginning-of-Year End-of-Year 1. Expected Unfunded Actuarial Liability (UAL) as of July 1, 2007 Based on July 1, 2006 Valuation a. Dombrowski \$ 3,557 1,853 2,015 1,853 1 3,811,432 438,506 b. Remaining 3,667,148 476,875 c. Subtotal \$ 3,814,989 \$ 3,669,001 \$ 440,359 \$ 478,891 2. Changes in UAL due to a. Actuarial Experience \$ (39,513) \$ (42,971)\$ (4,830) \$ (5,252)15 b. Assumption Changes 20 c. Active Plan Changes 20 d. Inactive Plan Changes 15 (39,513) \$ (4,830) \$ \$ (42,971)\$ (5,252)e. Subtotal 3. Total [1c. + 2e.] \$ 3,775,476 \$ 3,626,031 435,529 \$ 473,638



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level (if any) of contributions is needed to achieve and maintain an appropriate funded status of a plan. Typically, the actuarial process will use an actuarial funding method that will result in a pattern of contributions that are both stable and predictable.

The actuarial funding methodology for the July 1, 2007 actuarial valuation is the Entry Age Normal actuarial funding method. Under this method, there are two components to the total contribution: the normal cost, and the unfunded actuarial liability contribution. The normal cost rate is determined by taking the value, as of entry age into the plan, of each member's projected future benefits. This value is then divided by the value, also at entry age, of the each member's expected future salary producing a normal cost rate that should remain relatively constant over a participant's career. The normal cost rate is multiplied by current salary to determine each member's normal cost. Finally, the normal cost is reduced by the member contribution to produce the employer normal cost. The difference between the EAN actuarial liability and the actuarial value of assets is the unfunded actuarial liability.

In Table IV-1 we provide the employee contribution rates as a percent of pay effective for the plan year starting July 1, 2008. Table IV-2 shows the quasi agency funding rates as a percent of payroll.

| Table IV-1 Employee Contribution Rates for the Plan Year Beginning July 1, 2008 | | | | | | | | | |
|---|---------------------------------|---------|--------|------|--|--|--|--|--|
| | Municipal | Elected | Police | Fire | | | | | |
| 1967 Plan | 1967 Plan 3.75% N/A 6.00% 6.00% | | | | | | | | |
| Plan 87 | | | | | | | | | |

| Table IV-2 Quasi Agency Funding Rate as a Percent of Payroll | | | | | | | |
|--|---------|----------------|--|--|--|--|--|
| Valuation Date July 1, 2006 July 1, | | | | | | | |
| Fiscal Year | 2008 | 2009 | | | | | |
| 1. Normal Cost Rate | 6.287% | 6.186% | | | | | |
| 2. Amortization Rate | 80.107% | <u>85.398%</u> | | | | | |
| 3. Total Year-End Rate [1. + 2.] | 86.394% | 91.584% | | | | | |
| 4. Adjusted for Quarterly Payments [3. x 0.96877] | 83.696% | 88.724% | | | | | |



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Table IV-3 below shows the development of the FY 2009 Minimum Municipal Obligation (MMO) for each division. Table IV-4 on the following page shows a schedule of amortization payments toward the MMO. The differences between the MMO and the City's funding policy are:

- The City's funding policy amortizes the initial July 1, 1985 unfunded actuarial liability over 34 years, whereas the MMO is determined based on a 40-year amortization schedule.
- A July 2004 amendment to Act 205 allowed for 2001 and 2002 calendar year investment losses to be amortized over 30 years, rather than the usual 15.
- The normal cost portion of the City's funding policy payment is based on actual fiscal year payroll, whereas the MMO is based on the prior year's estimated payroll for that year.
- Interest does not accumulate on the MMO, as long as the payment is made by the end of the fiscal year.
- Both the City's funding policy and the MMO utilize valuation results developed in the previous year (e.g., the July 1, 2007 valuation report will determine FY 2009 contribution amounts). However, no interest is added to the MMO for this delay.
- The MMO reflects amortization of prior years' City contributions above past MMOs as actuarial gains.
- Starting with FY 2007-2008, the MMO will recognize actuarial gains and losses every other year, in order to coincide with the filing of the Act 205 forms.



| Table IV-3 |
|--|
| Development of the Minimum Municipal Obligation for Fiscal Year 2009 |
| (\$ thousands) |

| | No | on-Uniformed | Police | Fire | Total |
|---------------------------------|-----------|--------------|----------------|---------------|-----------------|
| Estimated FY 2008-2009 Payroll | \$ | 910,188 | \$ 374,945 | \$ 120,766 | \$ 1,405,899 |
| Normal Cost % | | 6.790% | 11.697% | 12.177% | 8.562% |
| | | | | | |
| Normal Cost | \$ | 61,805 | \$ 43,859 | \$ 14,705 | \$ 120,370 |
| Amortization Payment | | 199,679 | 119,544 | 40,335 | 359,558 |
| Administrative Expenses | | 4,923 | 1,913 | 652 | 7,488 |
| Subtotal | \$ | 266,407 | \$ 165,316 | \$ 55,693 | \$ 487,415 |
| Expected Employee Contributions | <u>\$</u> | (22,948) | \$ (19,567) | \$ (6,379) | \$ (48,894) |
| Minimum Municipal Obligation | \$ | 243,459 | \$ 145,749 | \$ 49,314 | \$ 438,522 |



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Table IV-4 Unfunded Liability Payments toward the MMO for Fiscal Year 2009 (\$ thousands)

| | | | (A) | mousanus) | | | | | |
|------------------------|---------------------|---------------------------------|--------------------|---------------------|------------------------------|--------------------|---------------------|----------------------------|--------------------|
| Type of Base | 7/1/2007 Balance | Municipal Remaining Years | FY 2009 Payment | 7/1/2007 Balance | Police Remaining Years | FY 2009 Payment | 7/1/2007 Balance | Fire Remaining Years | FY 2009 Payment |
| Original July 1, 1985 | | 1 0015 | _ w | | 2 0 0 2 5 | | | 2 0015 | _ wj |
| Unfunded Liability | \$ 940,033 | 18 | \$ 74,326 | \$ 603,454 | 18 | \$ 47,714 | \$ 240,647 | 18 | \$ 19,027 |
| Dombrowski | 978 | 1 | 978 | 626 | 1 | 626 | 249 | 1 | 249 |
| July 1, 1992 | | | | | | | | | |
| Active Plan Change | 68 | 1 | 68 | - | - | - | - | - | - |
| July 1, 1993 | | | | | | | | | |
| Active Plan Change | (394) | 3 | (143) | (262) | 3 | (95) | - | - | - |
| Assumption Change | (3,881) | 3 | (1,404) | 31 | 3 | 11 | (723) | 3 | (261) |
| Subtotal | (4,275) | | (1,546) | (231) | | (84) | (723) | | (261) |
| July 1, 1995 | | | | | | | | | |
| Experience Gain/(Loss) | 2,571 | 3 | 930 | 173 | 3 | 62 | (1,116) | 3 | (403) |
| Active Plan Change | 287 | 8 | 47 | - | - | - | - | - | - |
| Subtotal | 2,857 | | 977 | 173 | | 62 | (1,116) | | (403) |
| July 1, 1996 | | | | | | | | | |
| Experience Gain/(Loss) | 2,280 | 4 | 644 | 1,119 | 4 | 316 | (973) | 4 | (275) |
| July 1, 1997 | | | | | | | | | |
| Experience Gain/(Loss) | (28,478) | 5 | (6,689) | (10,930) | 5 | (2,567) | (7,307) | 5 | (1,716) |
| Assumption Change | 34,473 | 10 | 4,885 | 4,219 | 10 | 598 | 1,777 | 10 | 252 |
| Subtotal | 5,995 | | (1,804) | (6,711) | | (1,969) | (5,530) | | (1,464) |



Table IV-4
Unfunded Liability Payments toward the MMO for Fiscal Year 2009 (continued) (\$ thousands)

| | | | (φ) | mousanus) | | | | | |
|------------------------|------------|------------------------|------------|------------|---------------------|------------|------------|-------------------|------------|
| Type of Base | 7/1/2007 | Municipal Remaining | FY 2009 | 7/1/2007 | Police Remaining | FY 2009 | 7/1/2007 | Fire Remaining | FY 2009 |
| | Balance | Years | Payment | Balance | Years | Payment | Balance | Years | Payment |
| July 1, 1998 | | | | | | | | | |
| Experience Gain/(Loss) | \$ (9,302) | 6 | \$ (1,893) | \$ (7,593) | 6 | \$ (1,545) | \$ (6,825) | 6 | \$ (1,389) |
| July 1, 1999 | | | | | | | | | |
| Experience Gain/(Loss) | (85, 362) | 7 | (15,465) | 628 | 7 | 114 | (30,987) | 7 | (5,614) |
| Active Plan Change | 11,776 | 12 | 1,493 | - | - | - | - | - | - |
| Inactive Plan Change | 11,965 | 2 | 6,233 | 5,325 | 2 | 2,774 | 1,977 | 2 | 1,030 |
| Subtotal | (61,620) | | (7,739) | 5,953 | | 2,888 | (29,010) | | (4,584) |
| July 1, 2000 | | | | | | | | | |
| Experience Gain/(Loss) | (18,378) | 8 | (3,025) | 25,562 | 8 | 4,207 | 523 | 8 | 86 |
| July 1, 2001 | | | | | | | | | |
| Experience Gain/(Loss) | (14,530) | ` | (2,206) | (17,400) | 9 | (2,642) | 8,694 | 9 | 1,320 |
| Assumption Change | (3,511) | 14 | (409) | (2,003) | 14 | (233) | (4,555) | 14 | (530) |
| Subtotal | (18,042) | | (2,615) | (19,402) | | (2,875) | 4,139 | | 790 |
| July 1, 2002 | | | | | | | | | |
| Asset Gain/(Loss) | 19,294 | 26 | 1,750 | 10,286 | 26 | 933 | 4,384 | 26 | 398 |
| Liability Gain/(Loss) | 121,103 | 10 | 17,162 | 80,502 | 10 | 11,408 | 22,517 | 10 | 3,191 |
| Assumption Change | 13,935 | 15 | 1,566 | 9,240 | 15 | 1,039 | 7,273 | 15 | 818 |
| Subtotal | 154,332 | | 20,478 | 100,027 | | 13,379 | 34,175 | | 4,406 |



Table IV-4
Unfunded Liability Payments toward the MMO for Fiscal Year 2009 (continued) (\$ thousands)

| | | | (Ψ | mousanus) | | | | | |
|------------------------|-------------|-----------|------------|--------------|-----------|------------|------------|-----------|-----------|
| | | Municipal | | | Police | | | Fire | |
| Type of Base | 7/1/2007 | Remaining | FY 2009 | 7/1/2007 | Remaining | FY 2009 | 7/1/2007 | Remaining | FY 2009 |
| | Balance | Years | Payment | Balance | Years | Payment | Balance | Years | Payment |
| July 1, 2003 | | | | | | | | | |
| Asset Gain/(Loss) | \$ 329,706 | 26 | \$ 29,906 | \$ 173,983 | 26 | \$ 15,781 | \$ 74,792 | 26 | \$ 6,784 |
| Liability Gain/(Loss) | 68,023 | 11 | 9,083 | 9,728 | 11 | 1,299 | 7,237 | 11 | 966 |
| Active Plan Change | - | - | - | 21,469 | 16 | 2,338 | 8,586 | 16 | 935 |
| Inactive Plan Change | | - | | 24,456 | 6 | 4,976 | 7,312 | 6 | 1,488 |
| Subtotal | 397,729 | | 38,989 | 229,637 | | 24,394 | 97,927 | | 10,173 |
| July 1, 2004 | | | | | | | | | |
| Experience Gain/(Loss) | 130,191 | 12 | 16,508 | 78,646 | 12 | 9,972 | 23,129 | 12 | 2,933 |
| July 1, 2005 | | | | | | | | | |
| Experience Gain/(Loss) | 209,464 | 13 | 25,384 | 89,325 | 13 | 10,825 | 38,225 | 13 | 4,632 |
| Assumption Change | 231,819 | 18 | 23,942 | 112,172 | 18 | 11,585 | 45,034 | 18 | 4,651 |
| Plan Change | 2,033 | 18 | 210 | 256 | 18 | 26 | | - | |
| Subtotal | 443,316 | | 49,536 | 201,754 | | 22,436 | 83,259 | | 9,283 |
| July 1, 2007 | | | | | | | | | |
| Experience Gain/(Loss) | 140,541 | 15 | 15,797 | 187 | 15 | 21 | 15,700 | 15 | 1,765 |
| Total | \$2,106,704 | | \$ 199,679 | \$ 1,213,200 | | \$ 119,544 | \$ 455,571 | | \$ 40,335 |



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

The tables on the following pages support Exhibit I of the Act 205 filings.

- Table IV-5 is a summary of assets, liabilities, and amortization contributions under the assumption that the Pension Obligation Bond (POB) was never contributed.
- Table IV-6 is a schedule of modified amortization payments.
- Table IV-7a, IV-7b, and IV-7c are debt service schedules for the POB, broken down for the Municipal, Police, and Fire divisions.
- Tables IV-8a and IV-8b are statements of receipts and disbursements for each division excluding and including bond issue assets, respectively.

| | | Table IV-5 | | | | | | | |
|------------------------------------|----|------------|----|-----------|----|---------|--|--|--|
| Summary of Modified Actuarial Data | | | | | | | | | |
| (\$ thousands) | | | | | | | | | |
| Municipal Police Fire | | | | | | | | | |
| Actuarial Liability | \$ | 4,664,939 | \$ | 2,555,298 | \$ | 976,972 | | | |
| Market Value of Assets | \$ | 2,382,591 | \$ | 1,369,512 | \$ | 421,620 | | | |
| Actuarial Value of Assets | \$ | 1,996,318 | \$ | 1,150,931 | \$ | 359,133 | | | |
| Unfunded Actuarial Liability | \$ | 2,668,621 | \$ | 1,404,367 | \$ | 617,839 | | | |
| Amortization Contributions | | | | | | | | | |
| 1/1/1985 Initial Liability | | | | | | | | | |
| Remaining Years | | 18 | | 18 | | 18 | | | |
| Level-Dollar Contribution | \$ | 77,110 | \$ | 51,748 | \$ | 19,740 | | | |
| Payroll-Based Contribution | | 140,600 | | 90,258 | | 35,993 | | | |
| Post-1/1/1985 Liability | | | | | | | | | |
| Remaining Years | | 17 | | 20 | | 32 | | | |
| Amortization Contribution | \$ | 93,638 | \$ | 25,871 | \$ | 14,030 | | | |
| Total Amortization Contribution | \$ | 234,238 | \$ | 116,128 | \$ | 50,023 | | | |



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Table IV-6 Modified Unfunded Liability Payments toward the MMO for Fiscal Year 2009 (\$ thousands)

| | | Municipal | | | Police | | | Fire | |
|-----------------------------------|-------------|-----------|------------|--------------|-----------|------------|------------|-----------|-----------|
| Type of Base | 7/1/2007 | Remaining | FY 2009 | 7/1/2007 | Remaining | FY 2009 | 7/1/2007 | Remaining | FY 2009 |
| | Balance | Years | Payment | Balance | Years | Payment | Balance | Years | Payment |
| Original July 1, 1985 | | | | | | | | | |
| Unfunded Liability | \$1,778,233 | 18 | \$ 140,600 | \$ 1,141,532 | 18 | \$ 90,258 | \$ 455,222 | 18 | \$ 35,993 |
| | | | | | | | | | |
| All Changes Prior to July 1, 2007 | 858,059 | | 90,005 | 363,674 | | 37,205 | 164,344 | | 14,224 |
| | | | | | | | | | |
| July 1, 2007 | | | | | | | | | |
| Experience Gain/(Loss) | 32,328 | 15 | 3,634 | (100,840) | 15 | (11,334) | (1,726) | 15 | (194) |
| | | | | | | | | | |
| Total | \$2,668,621 | | \$ 234,238 | \$ 1,404,367 | | \$ 116,128 | \$ 617,839 | | \$ 50,023 |



| | Table IV-7a | | | | | | | | |
|-----------|--|------------------|--------------------|----------------------------------|--|--|--|--|--|
| | TOTAL DEBT SERVICE REQUIREMENTS: MUNICIPAL | | | | | | | | |
| | Required | Required | Premium or | Principal Balance | | | | | |
| Plan Year | Principal Payment | Interest Payment | Discount Amortized | at Valuation Date | | | | | |
| 1000 | Ф | Φ 7.041.525.20 | Ф | Ф. 727.105.502.15 | | | | | |
| 1999 | \$ - | \$ 7,041,525.30 | \$ - | \$ 727,185,593.15 | | | | | |
| 2000 | 9,917,857.50 | 29,825,175.27 | - | 717,267,735.65 712,700,005.02 | | | | | |
| 2001 | 4,567,730.63 | 29,324,323.46 | - | · · · · | | | | | |
| 2002 | - | 29,087,715.02 | - | 712,700,005.02 | | | | | |
| 2003 | 6,422,403.75 | 29,087,715.02 | - | 706,277,601.27 | | | | | |
| 2004 | 8,884,981.88 | 28,728,336.25 | - | 697,392,619.39 | | | | | |
| 2005 | 15,161,038.13 | 28,250,550.75 | - | 682,231,581.26 | | | | | |
| 2006 | 18,743,737.50 | 27,403,048.72 | - | 663,487,843.76 | | | | | |
| 2007 | 22,526,257.50 | 26,345,901.92 | - | 640,961,586.26 | | | | | |
| 2008 | 26,486,083.13 | 25,064,157.87 | - | 614,475,503.13 | | | | | |
| 2009 | 30,870,879.38 | 23,543,856.70 | - | 583,604,623.75 | | | | | |
| 2010 | 40,000,711.88 | 21,756,432.78 | - | 543,603,911.87 | | | | | |
| 2011 | 45,151,018.13 | 19,420,391.21 | - | 498,452,893.74 | | | | | |
| 2012 | 22,154,721.72 | 45,234,066.39 | - | 476,298,172.02 | | | | | |
| 2013 | 21,786,233.75 | 48,416,929.37 | - | 454,511,938.27 | | | | | |
| 2014 | 20,545,516.84 | 50,378,126.28 | - | 433,966,421.43 | | | | | |
| 2015 | 20,088,811.07 | 53,652,021.42 | - | 413,877,610.36 | | | | | |
| 2016 | 19,364,886.72 | 56,464,212.02 | - | 394,512,723.64 | | | | | |
| 2017 | 18,085,471.62 | 57,743,627.12 | - | 376,427,252.02 | | | | | |
| 2018 | 16,915,332.51 | 58,913,766.23 | - | 359,511,919.51 | | | | | |
| 2019 | 15,787,131.76 | 60,041,966.99 | - | 343,724,787.75 | | | | | |
| 2020 | 14,758,165.41 | 61,070,933.33 | - | 328,966,622.34 | | | | | |
| 2021 | 13,823,708.03 | 62,005,390.71 | - | 315,142,914.31 | | | | | |
| 2022 | 12,919,375.38 | 62,909,723.36 | - | 302,223,538.93 | | | | | |
| 2023 | 12,071,748.11 | 63,757,350.63 | - | 290,151,790.82 | | | | | |
| 2024 | 11,250,110.80 | 64,578,987.94 | - | 278,901,680.02 | | | | | |
| 2025 | 10,560,195.36 | 65,268,903.38 | - | 268,341,484.66 | | | | | |
| 2026 | 17,271,090.90 | 58,558,007.84 | - | 251,070,393.76 | | | | | |
| 2027 | 60,297,984.38 | 16,196,263.75 | - | 190,772,409.38 | | | | | |
| 2028 | 64,125,534.38 | 12,367,341.75 | - | 126,646,875.00 | | | | | |
| 2029 | 126,646,875.00 | 4,147,685.16 | - | - | | | | | |



| | Table IV-7b | | | | | | | |
|---|--------------------------|------------------|--------------------|-------------------|--|--|--|--|
| TOTAL DEBT SERVICE REQUIREMENTS: POLICE | | | | | | | | |
| | Required | Required | Premium or | Principal Balance | | | | |
| Plan Year | Principal Payment | Interest Payment | Discount Amortized | at Valuation Date | | | | |
| | | | | | | | | |
| 1999 | \$ - | \$ 3,848,228.76 | \$ - | \$ 397,410,560.15 | | | | |
| 2000 | 5,420,158.68 | 16,299,607.13 | - | 391,990,401.47 | | | | |
| 2001 | 2,496,287.61 | 16,025,889.30 | - | 389,494,113.86 | | | | |
| 2002 | - | 15,896,581.60 | - | 389,494,113.86 | | | | |
| 2003 | 3,509,875.74 | 15,896,581.60 | - | 385,984,238.12 | | | | |
| 2004 | 4,855,686.99 | 15,705,644.36 | - | 381,128,551.13 | | | | |
| 2005 | 8,285,583.09 | 15,439,067.14 | - | 372,842,968.04 | | | | |
| 2006 | 10,243,546.20 | 14,975,903.05 | - | 362,599,421.84 | | | | |
| 2007 | 12,310,712.28 | 14,398,167.04 | - | 350,288,709.56 | | | | |
| 2008 | 14,474,776.77 | 13,697,687.51 | - | 335,813,932.79 | | | | |
| 2009 | 16,871,089.83 | 12,866,835.33 | - | 318,942,842.96 | | | | |
| 2010 | 21,860,588.91 | 11,889,999.22 | - | 297,082,254.05 | | | | |
| 2011 | 24,675,257.01 | 10,613,340.83 | - | 272,406,997.04 | | | | |
| 2012 | 12,107,666.12 | 24,720,643.30 | - | 260,299,330.92 | | | | |
| 2013 | 11,906,285.60 | 26,460,093.82 | - | 248,393,045.32 | | | | |
| 2014 | 11,228,227.61 | 27,531,897.73 | - | 237,164,817.71 | | | | |
| 2015 | 10,978,635.63 | 29,321,097.79 | - | 226,186,182.08 | | | | |
| 2016 | 10,583,007.35 | 30,857,974.00 | - | 215,603,174.73 | | | | |
| 2017 | 9,883,800.61 | 31,557,180.75 | - | 205,719,374.12 | | | | |
| 2018 | 9,244,313.74 | 32,196,667.62 | - | 196,475,060.38 | | | | |
| 2019 | 8,627,746.39 | 32,813,234.97 | - | 187,847,313.99 | | | | |
| 2020 | 8,065,411.14 | 33,375,570.22 | - | 179,781,902.85 | | | | |
| 2021 | 7,554,725.51 | 33,886,255.84 | - | 172,227,177.34 | | | | |
| 2022 | 7,060,503.20 | 34,380,478.16 | - | 165,166,674.14 | | | | |
| 2023 | 6,597,270.66 | 34,843,710.70 | - | 158,569,403.48 | | | | |
| 2024 | 6,148,241.77 | 35,292,739.59 | - | 152,421,161.71 | | | | |
| 2025 | 5,771,199.53 | 35,669,781.82 | - | 146,649,962.18 | | | | |
| 2026 | 9,438,737.48 | 32,002,243.88 | - | 137,211,224.70 | | | | |
| 2027 | 32,953,149.75 | 8,851,339.07 | - | 104,258,074.95 | | | | |
| 2028 | 35,044,924.95 | 6,758,814.06 | - | 69,213,150.00 | | | | |
| 2029 | 69,213,150.00 | 2,266,730.66 | - | - | | | | |



| Table IV-7c | | | | | | | | |
|---------------------------------------|-------------------|------------------|--------------------|-------------------|--|--|--|--|
| TOTAL DEBT SERVICE REQUIREMENTS: FIRE | | | | | | | | |
| | Required | Required | Premium or | Principal Balance | | | | |
| Plan Year | Principal Payment | Interest Payment | Discount Amortized | at Valuation Date | | | | |
| | | | | | | | | |
| 1999 | \$ - | \$ 1,620,185.70 | \$ - | \$ 167,318,251.01 | | | | |
| 2000 | 2,282,001.44 | 6,862,479.41 | - | 165,036,249.57 | | | | |
| 2001 | 1,050,989.88 | 6,747,238.34 | - | 163,985,259.69 | | | | |
| 2002 | - | 6,692,797.06 | - | 163,985,259.69 | | | | |
| 2003 | 1,477,731.92 | 6,692,797.06 | - | 162,507,527.77 | | | | |
| 2004 | 2,044,346.92 | 6,612,408.45 | - | 160,463,180.85 | | | | |
| 2005 | 3,488,405.72 | 6,500,173.80 | - | 156,974,775.13 | | | | |
| 2006 | 4,312,749.60 | 6,305,171.92 | - | 152,662,025.53 | | | | |
| 2007 | 5,183,070.24 | 6,061,932.84 | - | 147,478,955.29 | | | | |
| 2008 | 6,094,187.16 | 5,767,016.15 | - | 141,384,768.13 | | | | |
| 2009 | 7,103,085.64 | 5,417,209.80 | - | 134,281,682.49 | | | | |
| 2010 | 9,203,770.28 | 5,005,941.15 | - | 125,077,912.21 | | | | |
| 2011 | 10,388,805.08 | 4,468,440.96 | - | 114,689,107.13 | | | | |
| 2012 | 5,097,583.51 | 10,407,913.67 | - | 109,591,523.62 | | | | |
| 2013 | 5,012,798.05 | 11,140,259.13 | - | 104,578,725.57 | | | | |
| 2014 | 4,727,321.30 | 11,591,511.24 | - | 99,851,404.27 | | | | |
| 2015 | 4,622,237.80 | 12,344,802.31 | - | 95,229,166.47 | | | | |
| 2016 | 4,455,669.93 | 12,991,859.70 | - | 90,773,496.54 | | | | |
| 2017 | 4,161,289.10 | 13,286,240.52 | - | 86,612,207.44 | | | | |
| 2018 | 3,892,051.60 | 13,555,478.02 | - | 82,720,155.84 | | | | |
| 2019 | 3,632,463.70 | 13,815,065.92 | - | 79,087,692.14 | | | | |
| 2020 | 3,395,708.67 | 14,051,820.95 | - | 75,691,983.47 | | | | |
| 2021 | 3,180,699.22 | 14,266,830.40 | - | 72,511,284.25 | | | | |
| 2022 | 2,972,621.18 | 14,474,908.45 | - | 69,538,663.07 | | | | |
| 2023 | 2,777,590.48 | 14,669,939.14 | - | 66,761,072.59 | | | | |
| 2024 | 2,588,539.82 | 14,858,989.80 | - | 64,172,532.77 | | | | |
| 2025 | 2,429,797.06 | 15,017,732.56 | - | 61,742,735.71 | | | | |
| 2026 | 3,973,908.11 | 13,473,621.52 | - | 57,768,827.60 | | | | |
| 2027 | 13,873,973.00 | 3,726,600.95 | - | 43,894,854.60 | | | | |
| 2028 | 14,754,654.60 | 2,845,603.67 | - | 29,140,200.00 | | | | |
| 2029 | 29,140,200.00 | 954,341.55 | - | - | | | | |



| | | Table IV-8a | | | | |
|--------------------------------|-------|----------------|------|----------------|-----|-------------|
| Receipts and Disb | urser | nents Excludii | ng E | Bond Issue Ass | ets | |
| | | Municipal | | Police | | Fire |
| Assets as of July 1, 2006 | \$ | 2,022,860,975 | \$ | 1,148,127,823 | \$ | 364,159,997 |
| Receipts | | | | | | |
| Employer Contributions | \$ | 283,479,887 | \$ | 168,615,068 | \$ | 60,861,400 |
| Employee Contributions | | 24,386,575 | | 18,376,839 | | 6,416,382 |
| State Aid | | 29,593,535 | | 21,354,289 | | 6,794,547 |
| Supplemental State Assistance | | - | | - | | - |
| Investment Income | | | | | | |
| (includes investment expenses) | | 389,725,516 | | 223,270,928 | | 70,369,481 |
| Other Receipts | | 1,357,600 | | 417,646 | | 187,787 |
| Total Receipts | \$ | 728,543,113 | \$ | 432,034,770 | \$ | 144,629,597 |
| Disbursements | | | | | | |
| Benefit Payments | \$ | 361,517,867 | \$ | 207,830,542 | \$ | 86,280,669 |
| Refund of Contributions | | 2,987,764 | | 1,158,119 | | 328,502 |
| Administrative Expenses | | 4,307,849 | | 1,661,914 | | 560,632 |
| Other Disbursements | | _ | | _ | | <u>-</u> |
| Total Disbursements | \$ | 368,813,480 | \$ | 210,650,575 | \$ | 87,169,803 |
| Assets as of July 1, 2007 | \$ | 2,382,590,608 | \$ | 1,369,512,019 | \$ | 421,619,791 |



| | T | able IV-8b | | | | |
|-------------------------------------|------|-----------------|------|-----------------|----|-------------|
| Receipts and Disbu | rsen | nents Including | g Bo | ond Issue Asset | ts | |
| | | Municipal | | Police | | Fire |
| Assets as of July 1, 2006 | \$ | 2,517,860,799 | \$ | 1,284,513,350 | \$ | 514,212,100 |
| Receipts | | | | | | |
| Employer Contributions | \$ | 198,297,798 | \$ | 133,689,437 | \$ | 42,537,549 |
| Employee Contributions | | 24,386,575 | | 18,376,839 | | 6,416,382 |
| State Aid | | 29,593,535 | | 21,354,289 | | 6,794,547 |
| Supplemental State Assistance | | - | | - | | - |
| Investment Income | | 455,219,669 | | 236,393,262 | | 91,506,602 |
| Other Receipts | | 1,357,600 | | 417,646 | | 187,787 |
| Total Receipts | \$ | 708,855,176 | \$ | 410,231,473 | \$ | 147,442,867 |
| Disbursements | | | | | | |
| Ben efit Payments | \$ | 361,517,867 | \$ | 207,830,542 | \$ | 86,280,669 |
| Refund of Contributions | | 2,987,764 | | 1,158,119 | | 328,502 |
| Administrative Expenses | | 4,307,849 | | 1,661,914 | | 560,632 |
| Other Disbursements (Inv. Expenses) | | 9,955,631 | | 5,169,909 | | 2,001,245 |
| Total Disbursements | \$ | 378,769,112 | \$ | 215,820,483 | \$ | 89,171,048 |
| Assets as of July 1, 2007 | \$ | 2,847,946,863 | \$ | 1,478,924,339 | \$ | 572,483,919 |



SECTION V ACCOUNTING STATEMENT INFORMATION

The Governmental Accounting Standards Board's Statement No. 25 (GASB 25) is effective for plan years beginning after June 15, 1996, and supersedes Statement No. 5. GASB No. 25 establishes standards for disclosure of pension information by public employee retirement systems and governmental employers in notes to financial statements and supplementary information. The disclosure presents the actuarial liability computed for funding purposes to the actuarial value of assets to determine a funding ratio (i.e., the EAN liability). The actuarial liability is determined assuming that participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions. Liabilities are discounted at the assumed valuation interest rate of 8.75% per annum. GASB Statement No. 25 requires the actuarial liability be compared with the actuarial value of assets for funding purposes. The relevant amounts as of July 1, 2006 and July 1, 2007 are presented in Table V-1 and Table V-2.

GASB 25 also requires for the disclosure of two financial statements and two schedules of historical information:

- Statement of Plan Net Assets includes information about System assets and liabilities at the valuation date. This statement can be found at the beginning of the Assets section of this report, in Table II-1.
- Statement of Changes in Plan Net Assets shows receipts and disbursements from the Fund for the most recent plan year. This statement can also be found in the Assets section of this report, in Table II-2.
- Schedule of Funding Progress discloses historical information about the funded status of the plan. This schedule can be found in Table V-3.
- Schedule of Employer Contributions discloses historical information about the Annual Required Contribution (ARC) and the actual contributions made by the employer. This schedule can be found in Table V-4.

GASB Statement No. 27 requires that financial statements must include additional disclosures for pension expenditures/expenses. It is effective for the period beginning after June 15, 1997. Table V-5 summarizes the results of this valuation according to our interpretation of GASB 27. The interpretation of the statements is subject to your auditor's review. The required disclosures are:

- Annual Required Contribution (ARC) this is the expected contribution required based on statement-specific valuation methods and assumptions, with the unfunded liability amortized over a period not to exceed forty years, either as a level-dollar amount or as a level percentage of pay, and with amortization of contributions less than or in excess of the required amount. Historically, the ARC has been shown as the contribution required under the City's funding policy.
- Net Pension Obligation (NPO) the accumulated value of contribution deficiencies (or excesses) over required contributions from July 1, 1987 to July 1, 1997 between the annual pension cost and the employer's contribution. During the 1994 fiscal year, the City



SECTION V ACCOUNTING STATEMENT INFORMATION

contributed \$10 million more than the ARC. Therefore, the initial NPO value at the effective date is (\$9,012,000) as shown in Table V-5 below.

• Annual Pension Cost – is equal to the ARC plus one year's interest on NPO and ARC adjustment.



SECTION V ACCOUNTING STATEMENT INFORMATION

| | Table V-1 Funding Status Under GASB Statement No. 25 | | | | | | | | | | | | | |
|----|--|----|-----------|----|-----------|-------|--|--|--|--|--|--|--|--|
| | (\$ thousands) | | | | | | | | | | | | | |
| | July 1, 2007 July 1, 2006 % Change | | | | | | | | | | | | | |
| 1. | Actuarial Liabilities | | | | | | | | | | | | | |
| | a. Members Currently Receiving Payments | \$ | 5,325,969 | \$ | 5,281,291 | 0.8% | | | | | | | | |
| | b. Vested Terminated and Inactive Members | | 109,920 | | 70,892 | 55.1% | | | | | | | | |
| | c. Active Members | | 2,761,320 | | 2,731,484 | 1.1% | | | | | | | | |
| | d. Total Actuarial Liability | \$ | 8,197,209 | \$ | 8,083,667 | 1.4% | | | | | | | | |
| 2. | Actuarial Value of Assets | \$ | 4,421,734 | \$ | 4,168,467 | 6.1% | | | | | | | | |
| 3. | Unfunded Actuarial Liability | \$ | 3,775,476 | \$ | 3,915,200 | -3.6% | | | | | | | | |
| 4. | Ratio of Actuarial Value of Assets | | | | | | | | | | | | | |
| | to Actuarial Liability (2)/(1)(d) | | 53.94% | | 51.57% | 2.3% | | | | | | | | |

| Table V-2 | | | | | | | | | |
|---|----|-----------|--|--|--|--|--|--|--|
| Statement of Changes in Liabilities - GASB No. 25 Basis | | | | | | | | | |
| (\$ thousands) | | | | | | | | | |
| Actuarial Liability as of July 1, 2006 | \$ | 8,083,667 | | | | | | | |
| Increase (Decrease) During Year Attributable to: | | | | | | | | | |
| Passage of Time | | 678,441 | | | | | | | |
| Benefits Paid | | (660,103) | | | | | | | |
| Assumption Change | | - | | | | | | | |
| Plan Amendment | | - | | | | | | | |
| Benefits Accrued, Other Gains/Losses | | 95,204 | | | | | | | |
| Net Increase (Decrease) | \$ | 113,542 | | | | | | | |
| Actuarial Liability as of July 1, 2007 | \$ | 8,197,209 | | | | | | | |



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-3 Schedule of Funding Progress (\$ millions)

| Actuarial Valuation Date * | Actuarial Value of Assets (a) | Actuarial Liability (b) | Unfunded Actuarial Liability (UAL) (b-a) | Funded Ratio (a/b) | Covered Payroll (c) | UAL as a % of Covered Payroll [(b-a)/c] |
|-------------------------------|-------------------------------------|-------------------------------|--|--------------------------|---------------------------|---|
| 7/1/1992 | \$ 1,981.8 | \$ 4,425.5 | \$ 2,443.7 | 44.78% | \$ 993.3 | 246.02% |
| 7/1/1993 | 2,113.9 | 4,502.1 | 2,388.2 | 46.95% | 975.0 | 244.94% |
| 7/1/1994 | 2,225.2 | 4,662.6 | 2,437.4 | 47.72% | 974.3 | 250.17% |
| 7/1/1995 | 2,312.1 | 4,850.8 | 2,538.7 | 47.66% | 1,006.4 | 252.26% |
| 7/1/1996 | 2,457.2 | 5,098.1 | 2,640.9 | 48.20% | 1,068.3 | 247.21% |
| 7/1/1997 | 2,660.9 | 5,318.1 | 2,657.2 | 50.03% | 1,067.7 | 248.87% |
| 7/1/1998 | 2,921.3 | 5,586.1 | 2,664.8 | 52.30% | 1,128.2 | 236.19% |
| 7/1/1999 | 4,496.8 | 5,862.1 | 1,365.3 | 76.71% | 1,178.6 | 115.84% |
| 7/1/2000 | 4,765.0 | 6,193.4 | 1,428.4 | 76.94% | 1,142.8 | 124.99% |
| 7/1/2001 | 4,943.4 | 6,379.8 | 1,436.4 | 77.49% | 1,180.4 | 121.69% |
| 7/1/2002 | 4,891.3 | 6,727.2 | 1,835.9 | 72.71% | 1,207.3 | 152.06% |
| 7/1/2003 | 4,548.1 | 7,188.3 | 2,640.2 | 63.27% | 1,269.3 | 208.00% |
| 7/1/2004 | 4,333.1 | 7,247.7 | 2,914.6 | 59.79% | 1,266.0 | 230.23% |
| 7/1/2005 | 4,159.5 | 7,851.5 | 3,692.0 | 52.98% | 1,270.7 | 290.54% |
| 7/1/2006 | 4,168.5 | 8,083.7 | 3,915.2 | 51.57% | 1,319.4 | 296.74% |
| 7/1/2007 | 4,421.7 | 8,197.2 | 3,775.5 | 53.94% | 1,351.8 | 279.29% |

^{*} The actuarial valuation reports need to be references in comparison of these values to ascertain when and if the values reflect assumption, benefit or method changes.



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-4 Schedule of Employer Contributions (\$ millions)

| Fiscal Year Ended June 30 | Annual Required Contribution (ARC) | Percentage of ARC Contributed |
|---------------------------|------------------------------------|----------------------------------|
| 1993 | \$ 209.4 | 100.0% |
| 1994 | 223.8 | 104.5% |
| 1995 | 212.8 | 100.0% |
| 1996 | 222.5 | 100.0% |
| 1997 | 237.0 | 100.0% |
| 1998 | 252.1 | 100.0% |
| 1999 | 256.7 | 586.9%* |
| 2000 | 168.9 | 108.9% |
| 2001 | 167.6 | 100.0% |
| 2002 | 178.2 | 100.0% |
| 2003 | 195.5 | 91.9% |
| 2004 | 253.8 | 79.9% |
| 2005 | 358.1 | 83.6% |
| 2006 | 395.0 | 84.0% |

^{*} Due to the Pension Obligation Bond worth \$1,250,000,000 deposited on February 2, 1999.



SECTION V ACCOUNTING STATEMENT INFORMATION

| | | | | | | Tab | le V-5 | | | | | | | |
|----------------------|----------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| | | | | | Calcula | ation of A | nnual Pens | sion Cost | | | | | | |
| | (\$ thousands) | | | | | | | | | | | | | |
| | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| ARC | \$ 223,750 | \$ 212,838 | \$ 222,482 | \$ 237,016 | \$ 252,080 | \$ 256,704 | \$ 168,928 | \$ 167,616 | \$ 178,239 | \$ 195,514 | \$ 253,844 | \$ 358,141 | \$ 394,950 | \$527,925 |
| Interest on NPO | - | (900) | (869) | (840) | (811) | (783) | (113,257) | (110,748) | (106,975) | (103,330) | (98,392) | (90,448) | (82,068) | (71,541) |
| Adjustment to ARC | | 1,241 | 1,198 | 1,158 | 1,118 | 1,080 | 156,130 | 152,672 | 147,470 | 142,446 | 135,638 | 124,687 | 113,135 | 99,953 |
| Annual Pension Cost | \$ 223,750 | \$ 213,179 | \$ 222,811 | \$ 237,334 | \$ 252,387 | \$ 257,001 | \$ 211,801 | \$ 209,540 | \$ 218,734 | \$ 234,630 | \$ 291,090 | \$ 392,380 | \$ 426,017 | \$ 556,337 |
| Contributions | 233,750 | 212,838 | 222,482 | 237,016 | 252,080 | 1,506,704 | 183,928 | 167,616 | 178,239 | 179,757 | 202,827 | 299,266 | 331,765 | 432,267 |
| Increase in NPO | (10,000) | 341 | 329 | 318 | 307 | (1,249,703) | 27,873 | 41,924 | 40,495 | 54,873 | 88,263 | 93,114 | 94,252 | 124,069 |
| NPO at BOY | - | (10,000) | (9,659) | (9,330) | (9,012) | (8,705) | (1,258,408) | (1,230,535) | (1,188,611) | (1,148,116) | (1,093,243) | (1,004,980) | (911,866) | (817,614) |
| NPO at EOY | (10,000) | (9,659) | (9,330) | (9,012) | (8,705) | (1,258,408) | (1,230,535) | (1,188,611) | (1,148,116) | (1,093,243) | (1,004,980) | (911,866) | (817,614) | (693,545) |
| Interest Rate | 9.00% | 9.00% | 9.00% | 9.00% | 9.00% | 9.00% | 9.00% | 9.00% | 9.00% | 9.00% | 9.00% | 9.00% | 9.00% | 8.75% |
| 15-Year Amortization | | | | | | | | | | | | | | |
| Factor (EOY) | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.18 |

(\$9,012,000) is the NPO at transition date.



APPENDIX A MEMBERSHIP INFORMATION

The data for this valuation was provided by the Board of Pensions as of July 1, 2007. Cheiron did not audit any of the data; however, it was reviewed to ensure that it complies with generally accepted actuarial standards. The following is a list of data charts contained in this section:

- ➤ A-1: Active Member Data by Plan
- ➤ A-2: Non-Active Member Data, Counts, by Plan
- ➤ A-3: Non-Active Member Data, Total Annual Benefits, by Plan
- ➤ A-4: Non-Active Member Data, Average Annual Benefits, by Plan
- ➤ A-5 through A-20: Age/Service Distribution for Active Participants, Counts and Average Salary for all Plans
- ➤ A-21: Reconciliation of Plan Membership
- ➤ A-22 through A-26: Age and Benefit Distributions for Non-Active Member Data



| | | | | e A-1 | | | |
|---------------------|---------------------|---------------------|-----------|---------------------|-------------------|-------------------|----------|
| | | | Active Me | mber Data | | | |
| | July 1, 2007 | July 1, 2006 | % Change | | July 1, 2007 | Tuly 1, 2006 | % Change |
| Total City | | | | 1987 Municipal | | | |
| Count | 28,354 | 28,017 | 1.2% | Count | 14,025 | 13,485 | 4.0% |
| Average Age | 43.3 | 43.4 | -0.2% | Average Age | 42.4 | 42.2 | 0.5% |
| Average Service | 12.0 | 12.5 | -4.2% | Average Service | 7.1 | 7.6 | -6.0% |
| Average Salary | \$ 47,677 | \$ 47,094 | 1.2% | Average Salary | \$ 40,880 | \$ 39,746 | 2.9% |
| Total Annual Salary | \$ 1,351,826,215 | \$ 1,319,431,076 | 2.5% | Total Annual Salary | \$ 573,343,947 | \$ 535,975,679 | 7.0% |
| 1967 Municipal | | | | 1987 Elected | | | |
| Count | 5,764 | 6,397 | -9.9% | Count | 19 | 20 | -5.0% |
| Average Age | 50.7 | 50.2 | 1.2% | Average Age | 59.9 | 59.4 | 0.9% |
| Average Service | 22.6 | 21.9 | 3.1% | Average Service | 21.2 | 20.9 | 1.5% |
| Average Salary | \$ 52,008 | \$ 50,376 | 3.2% | Average Salary | \$ 108,469 | \$ 106,524 | 1.8% |
| Total Annual Salary | \$ 299,775,887 | \$ 322,252,431 | -7.0% | Total Annual Salary | \$ 2,060,908 | \$ 2,130,477 | -3.3% |
| 1967 Police | | | | 1987 Police | | | |
| Count | 1,248 | 1,336 | -6.6% | Count | 5,179 | 4,843 | 6.9% |
| Average Age | 50.0 | 49.2 | 1.7% | Average Age | 36.9 | 36.9 | 0.1% |
| Average Service | 24.4 | 23.6 | 3.6% | Average Service | 10.1 | 10.2 | -1.7% |
| Average Salary | \$ 63,163 | \$ 63,144 | 0.0% | Average Salary | \$ 54,392 | \$ 55,005 | -1.1% |
| Total Annual Salary | \$ 78,827,447 | \$ 84,359,757 | -6.6% | Total Annual Salary | \$ 281,696,983 | \$ 266,388,159 | 5.7% |
| 1967 Fire | | | | 1987 Fire | | | |
| Count | 523 | 564 | -7.3% | Count | 1,596 | 1,372 | 16.3% |
| Average Age | 52.2 | 51.5 | 1.3% | Average Age | 37.2 | 38.1 | -2.4% |
| Average Service | 26.0 | 25.4 | 2.3% | Average Service | 8.2 | 9.0 | -8.7% |
| Average Salary | \$ 62,550 | \$ 62,235 | 0.5% | Average Salary | \$ 52,260 | \$ 53,370 | -2.1% |
| Total Annual Salary | \$ 32,713,762 | \$ 35,100,567 | -6.8% | Total Annual Salary | \$ 83,407,281 | \$ 73,224,006 | 13.9% |



| | | | Non-Activ | ble A-2 e Member Data Count | | | |
|---------------------|--------------|--------------|-----------|-----------------------------------|--------------|--------------|----------|
| | July 1, 2007 | July 1, 2006 | % Change | | July 1, 2007 | July 1, 2006 | % Change |
| Total City | | | | 1987 Municipal Plan | | | |
| Retired | 20,448 | 19,853 | 3.0% | Retired | 402 | 311 | 29.3% |
| Disabled | 4,384 | 4,439 | -1.2% | Disabled | 101 | 78 | 29.5% |
| Beneficiary | 8,593 | 8,637 | -0.5% | Beneficiary | 94 | 74 | 27.0% |
| In Pay Status Total | 33,425 | 32,929 | 1.5% | In Pay Status Total | 597 | 463 | 28.9% |
| DROP | 2,102 | 2,625 | -19.9% | DROP | 139 | 126 | 10.3% |
| Deferred Vested | 1,301 | 809 | 60.8% | Deferred Vested | 441 | 202 | 118.3% |
| 1967 Municipal Plan | | | | 1987 Elected Plan | | | |
| Retired | 12,441 | 12,089 | 2.9% | Retired | 9 | 9 | 0.0% |
| Disabled | 1,895 | 1,924 | -1.5% | Disabled | - | - | |
| Beneficiary | 5,378 | 5,439 | -1.1% | Beneficiary | 3 | 3 | 0.0% |
| In Pay Status Total | 19,714 | 19,452 | 1.3% | In Pay Status Total | 12 | 12 | 0.0% |
| DROP | 1,400 | 1,749 | -20.0% | DROP | 5 | 3 | 66.7% |
| Deferred Vested | 738 | 560 | 31.8% | Deferred Vested | - | - | |
| 1967 Police Plan | | | | 1987 Police Plan | | | |
| Retired | 5,597 | 5,509 | 1.6% | Retired | 42 | 27 | 55.6% |
| Disabled | 1,826 | 1,872 | -2.5% | Disabled | 121 | 111 | 9.0% |
| Beneficiary | 2,149 | 2,136 | 0.6% | Beneficiary | 68 | 61 | 11.5% |
| In Pay Status Total | 9,572 | 9,517 | 0.6% | In Pay Status Total | 231 | 199 | 16.1% |
| DROP | 318 | 441 | -27.9% | DROP | 7 | 10 | -30.0% |
| Deferred Vested | 12 | 8 | 50.0% | Deferred Vested | 86 | 30 | 186.7% |
| 1967 Fire Plan | | | | 1987 Fire Plan | | | |
| Retired | 1,939 | 1,894 | 2.4% | Retired | 18 | 14 | 28.6% |
| Disabled | 421 | 438 | -3.9% | Disabled | 20 | 16 | 25.0% |
| Beneficiary | 876 | 899 | -2.6% | Beneficiary | 25 | 25 | 0.0% |
| In Pay Status Total | 3,236 | 3,231 | 0.2% | In Pay Status Total | 63 | 55 | 14.5% |
| DROP | 230 | 296 | -22.3% | DROP | 3 | - | |
| Deferred Vested | | 2 | -100.0% | Deferred Vested | 24 | 7 | 242.9% |



| | | | | Non-Active 1 | le A-3 Member Data wal Benefit | | | | | |
|---|---|----|---|--------------------------|--|----|---------------------------------|----|---------------------------------|-------------------------|
| | July 1, 2007 | | July 1, 2006 | % Change | | J | July 1, 2007 | | July 1, 2006 | % Change |
| Total City Retired Disabled | \$ 425,673,788 74,270,854 | \$ | 400,193,902 73,394,492 | 6.4% 1.2% | 1987 Municipal Plan Retired Disabled | \$ | 4,030,522 1,648,513 | \$ | 3,070,811 1,260,524 | 31.3% 30.8% |
| Beneficiary | 59,832,534 | _ | 58,463,884 | 2.3% | Beneficiary | | 512,429 | | 439,691 | 16.5% |
| In Pay Status Total | 559,777,176 | | 532,052,278 | 5.2% | In Pay Status Total | | 6,191,464 | | 4,771,026 | 29.8% |
| DROP (pension) DROP (account) | 68,864,026 163,387,189 | | 82,541,682 197,161,770 | -16.6% -17.1% | DROP (pension) DROP (account) | | 1,706,599 2,736,482 | | 1,570,047 2,531,713 | 8.7% 8.1% |
| Deferred Vested | 18,455,708 | | 11,016,975 | 67.5% | Deferred Vested | | 5,123,227 | | 2,388,847 | 114.5% |
| 1967 Municipal Plan Retired Disabled Beneficiary | \$ 233,686,809 29,971,204 34,633,286 | \$ | 216,895,604 29,303,881 34,066,742 | 7.7% 2.3% 1.7% | 1987 Elected Plan Retired Disabled Beneficiary | \$ | 319,189 - 68,615 | \$ | 319,188 - 68,615 | 0.0% |
| In Pay Status Total | 298,291,299 | _ | 280,266,227 | 6.4% | In Pay Status Total | - | 387,804 | _ | 387,803 | 0.0% |
| DROP (pension) DROP (account) | 44,260,898 98,012,232 | | 52,645,333 118,730,516 | -15.9% -17.4% | DROP (pension) DROP (account) | | 471,247 954,875 | | 267,224 559,977 | 76.3% 70.5% |
| Deferred Vested | 11,560,749 | | 7,946,335 | 45.5% | Deferred Vested | | 934,673 | | 339,977 | 70.5% |
| 1967 Police Plan Retired Disabled Benefici ary | \$ 133,318,592 30,739,860 16,892,749 | \$ | 128,860,072 31,196,307 16,390,632 | 3.5% -1.5% 3.1% | 1987 Police Plan Retired Disabled Beneficiary | \$ | 543,497 3,478,355 434,301 | \$ | 312,035 3,045,044 387,173 | 74.2% 14.2% 12.2% |
| In Pay Status Total | 180,951,201 | | 176,447,011 | 2.6% | In Pay Status Total | | 4,456,153 | | 3,744,252 | 19.0% |
| DROP (pension) DROP (account) | 12,051,761 33,167,194 | | 15,318,191 42,060,523 | -21.3% -21.1% | DROP (pension) DROP (account) | | 141,987 240,523 | | 193,137 418,927 | -26.5% -42.6% |
| Deferred Vested | 194,459 | | 118,538 | 64.0% | Deferred Vested | | 1,250,295 | | 451,486 | 176.9% |
| 1967 Fire Plan Retired Disabled Beneficiary | \$ 53,577,949 7,867,395 7,073,373 | \$ | 50,592,450 8,183,104 6,893,251 | 5.9% -3.9% 2.6% | 1987 Fire Plan Retired Disabled Beneficiary | \$ | 197,230 565,527 217,781 | \$ | 143,742 405,633 217,780 | 37.2% 39.4% 0.0% |
| In Pay Status Total DROP (pension) DROP (account) | 68,518,717 10,176,334 28,258,091 | | 65,668,804 12,547,751 32,860,114 | 4.3% -18.9% -14.0% | In Pay Status Total DROP (pension) DROP (account) | | 980,538 55,200 17,791 | | 767,155 | 27.8% |
| Deferred Vested | 28,238,091 | | 15,921 | -14.0% -100.0% | Deferred Vested | | 326,978 | | 95,848 | 241.1% |



| | | | Non-Active 1 | le A-4 Member Data mual Benefit | | | |
|---|---|---|--------------------------------------|--|---|---|---------------------------------------|
| | July 1, 2007 | July 1, 2006 | % Change | | July 1, 2007 | July 1, 2006 | % Change |
| Total City Retired | \$ 20,817 | \$ 20,158 | 3.3% | 1987 Municipal Plan Retired | \$ 10,026 | \$ 9,874 | 1.5% |
| Disabled Beneficiary | 16,941 6,963 | 16,534 6,769 | 2.5% 2.9% | Disabled Beneficiary | 16,322 5,451 | 16,161 5,942 | 1.0% -8.3% |
| In Pay Status Total | 16,747 | 16,158 | 3.6% | In Pay Status Total | 10,371 | 10,305 | 0.6% |
| DROP (pension) DROP (account) | 32,761 77,729 | 31,444 75,109 | 4.2% 3.5% | DROP (pension) DROP (account) | 12,278 19,687 | 12,461 20,093 | -1.5% -2.0% |
| Deferred Vested | 14,186 | 13,618 | 4.2% | Deferred Vested | 11,617 | 11,826 | -1.8% |
| 1967 Municipal Plan Retired Disabled | \$ 18,784 15,816 | \$ 17,942 15,231 | 4.7% 3.8% | 1987 Elected Plan Retired Disabled | \$ 35,465 | \$ 35,465 | 0.0% |
| Beneficiary | 6,440 | 6,263 | 2.8% | Beneficiary | 22,872 | 22,872 | 0.0% |
| In Pay Status Total DROP (pension) | 15,131 31,615 | 14,408 30,100 | 5.0% 5.0% | In Pay Status Total DROP (pension) | 32,317 94,249 | 32,317 89,075 | 0.0% 5.8% |
| DROP (account) | 70,009 | 67,885 | 3.1% | DROP (account) | 190,975 | 186,659 | 2.3% |
| Deferred Vested | 15,665 | 14,190 | 10.4% | Deferred Vested | - | - | |
| 1967 Police Plan Retired Disabled Benefici ary In Pay Status Total DROP (pension) | \$ 23,820 16,835 7,861 18,904 37,899 | \$ 23,391 16,665 7,674 18,540 34,735 | 1.8% 1.0% 2.4% 2.0% 9.1% | 1987 Police Plan Retired Disabled Beneficiary In Pay Status Total DROP (pension) | \$ 12,940 28,747 6,387 19,291 20,284 | \$ 11,557 27,433 6,347 18,815 19,314 | 12.0% 4.8% 0.6% 2.5% 5.0% |
| DROP (account) Deferred Vested | 104,299 16,205 | 95,375 14,817 | 9.4% 9.4% | DROP (account) Deferred Vested | 34,360 14,538 | 41,893 15,050 | -18.0% -3.4% |
| 1967 Fire Plan Retired Disabled Benefici ary | \$ 27,632 18,687 8,075 | \$ 26,712 18,683 7,668 | 3.4% 0.0% 5.3% | 1987 Fire Plan Retired Disabled Beneficiary | \$ 10,957 28,276 8,711 | \$ 10,267 25,352 8,711 | 6.7% 11.5% 0.0% |
| In Pay Status Total DROP (pension) DROP (account) | 21,174 44,245 122,861 | 20,325 42,391 111,014 | 4.2% 4.4% | In Pay Status Total DROP (pension) DROP (account) | 15,564 18,400 5,930 | 13,948 - - | 11.6% |
| Deferred Vested | - | 7,961 | -100.0% | Deferred Vested | 13,624 | 13,693 | -0.5% |

APPENDIX A MEMBERSHIP INFORMATION

Table A-5
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Total City

COUNTS BY AGE/SERVICE

| | | | | Servi | ice | | | | |
|----------|---------|--------|--------|----------|----------|----------|----------|---------|--------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | 509 | 480 | 37 | 0 | 0 | 0 | 0 | 0 | 1,026 |
| 25 to 29 | 446 | 1,358 | 538 | 41 | 0 | 0 | 1 | 0 | 2,384 |
| 30 to 34 | 265 | 998 | 1,135 | 518 | 22 | 0 | 0 | 1 | 2,939 |
| 35 to 39 | 187 | 748 | 1,243 | 1,338 | 486 | 15 | 0 | 0 | 4,017 |
| 40 to 44 | 149 | 640 | 825 | 1,086 | 1,242 | 298 | 32 | 4 | 4,276 |
| 45 to 49 | 128 | 487 | 716 | 831 | 1,207 | 970 | 454 | 20 | 4,813 |
| 50 to 54 | 112 | 407 | 620 | 554 | 916 | 832 | 766 | 521 | 4,728 |
| 55 to 59 | 64 | 285 | 455 | 406 | 423 | 362 | 284 | 538 | 2,817 |
| 60 to 64 | 36 | 148 | 249 | 154 | 134 | 73 | 51 | 94 | 939 |
| 65 & up | 30 | 84 | 121 | 66 | 45 | 21 | 12 | 36 | 415 |
| Total | 1,926 | 5,635 | 5,939 | 4,994 | 4,475 | 2,571 | 1,600 | 1,214 | 28,354 |

Table A-6
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Total City

| | | | | Ser | vice | | | | | |
|----------|--------------|--------------|--------------|----------|------|----------|----------|----------|---------|--------------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | \$ 29,402 | \$ 30,724 | \$ 30,978 | \$ - | \$ | - | \$ - | \$ - | \$ - | \$ 30,077 |
| 25 to 29 | 35,193 | 42,148 | 46,918 | 42,407 | | - | - | 35,456 | - | 41,925 |
| 30 to 34 | 35,173 | 44,367 | 50,022 | 51,706 | | 48,362 | - | - | 55,315 | 47,049 |
| 35 to 39 | 33,260 | 43,395 | 49,510 | 53,754 | | 54,906 | 49,486 | - | - | 49,681 |
| 40 to 44 | 27,887 | 40,312 | 46,118 | 51,234 | | 54,762 | 54,160 | 54,905 | 63,942 | 49,067 |
| 45 to 49 | 28,489 | 38,626 | 43,528 | 49,198 | | 52,250 | 56,316 | 58,776 | 54,060 | 49,858 |
| 50 to 54 | 29,751 | 37,127 | 42,902 | 47,174 | | 49,326 | 56,507 | 60,082 | 57,196 | 50,591 |
| 55 to 59 | 26,524 | 37,180 | 42,623 | 44,269 | | 48,500 | 52,647 | 56,844 | 60,894 | 49,038 |
| 60 to 64 | 23,615 | 36,591 | 40,378 | 45,200 | | 43,817 | 46,996 | 53,553 | 62,114 | 43,826 |
| 65 & up | 22,221 | 26,690 | 33,139 | 37,992 | | 46,382 | 47,097 | 43,306 | 52,522 | 35,934 |



APPENDIX A MEMBERSHIP INFORMATION

Table A-7
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Municipal (Plan 67)

COUNTS BY AGE/SERVICE

| | | | | Servi | ce | | | | |
|----------|---------|--------|--------|----------|----------|----------|----------|---------|-------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 to 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 to 34 | 1 | 1 | 1 | 5 | 3 | 0 | 0 | 0 | 11 |
| 35 to 39 | 0 | 0 | 0 | 9 | 119 | 3 | 0 | 0 | 131 |
| 40 to 44 | 0 | 2 | 4 | 15 | 446 | 186 | 27 | 0 | 680 |
| 45 to 49 | 0 | 1 | 3 | 21 | 633 | 577 | 267 | 18 | 1,520 |
| 50 to 54 | 1 | 3 | 7 | 17 | 569 | 554 | 509 | 377 | 2,037 |
| 55 to 59 | 2 | 2 | 3 | 11 | 280 | 262 | 178 | 326 | 1,064 |
| 60 to 64 | 0 | 1 | 1 | 6 | 88 | 51 | 38 | 52 | 237 |
| 65 & up | 1 | 1 | 0 | 1 | 34 | 20 | 10 | 17 | 84 |
| Total | 5 | 11 | 19 | 85 | 2,172 | 1,653 | 1,029 | 790 | 5,764 |

Table A-8
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Municipal (Plan 67)

| | | | | Ser | vice | | | | |
|----------|---------|---------|--------|----------|----------|----------|----------|---------|--------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 25 to 29 | - | - | - | = | - | - | - | - | - |
| 30 to 34 | 35,356 | 44,492 | 27,245 | 40,129 | 46,416 | - | - | - | 40,635 |
| 35 to 39 | - | - | - | 46,561 | 48,480 | 48,324 | - | - | 48,345 |
| 40 to 44 | - | 32,589 | 56,755 | 45,054 | 49,443 | 51,070 | 56,376 | - | 50,060 |
| 45 to 49 | - | 30,523 | 41,060 | 43,646 | 48,236 | 54,134 | 54,642 | 54,882 | 51,590 |
| 50 to 54 | 38,574 | 55,906 | 63,746 | 52,095 | 46,087 | 55,489 | 58,716 | 54,093 | 53,403 |
| 55 to 59 | 38,769 | 107,816 | 63,784 | 46,710 | 46,493 | 51,607 | 53,453 | 57,607 | 52,474 |
| 60 to 64 | - | 101,407 | 84,421 | 50,803 | 43,455 | 48,376 | 52,660 | 62,953 | 50,871 |
| 65 & up | 42,000 | 84,140 | - | 147,084 | 46,151 | 43,892 | 43,475 | 41,933 | 46,045 |



APPENDIX A MEMBERSHIP INFORMATION

Table A-9
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Police (Plan 67)

COUNTS BY AGE/SERVICE

| | | | | Servio | ce | | | | |
|----------|---------|--------|--------|---------|----------|----------|----------|---------|-------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 0 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 to 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 to 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 to 39 | 0 | 0 | 0 | 3 | 3 | 2 | 0 | 0 | 8 |
| 40 to 44 | 0 | 0 | 1 | 1 | 50 | 69 | 2 | 1 | 124 |
| 45 to 49 | 0 | 0 | 0 | 0 | 54 | 231 | 165 | 0 | 450 |
| 50 to 54 | 0 | 0 | 0 | 0 | 22 | 149 | 206 | 72 | 449 |
| 55 to 59 | 0 | 0 | 1 | 0 | 10 | 46 | 53 | 82 | 192 |
| 60 to 64 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 17 | 23 |
| 65 & up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Total | 0 | 0 | 2 | 4 | 139 | 501 | 428 | 174 | 1,248 |

Table A-10
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Police (Plan 67)

| | | | | Serv | vice | | | | |
|----------|---------|---------|--------|----------|----------|----------|----------|---------|--------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | \$ - : | \$ - \$ | - \$ | - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 25 to 29 | - | - | - | - | - | - | - | - | - |
| 30 to 34 | - | - | - | - | - | - | - | - | - |
| 35 to 39 | - | - | - | 55,315 | 57,545 | 55,823 | - | - | 56,278 |
| 40 to 44 | - | - | 54,940 | 55,315 | 58,596 | 64,548 | 58,620 | 71,885 | 61,959 |
| 45 to 49 | - | - | - | - | 58,775 | 60,709 | 66,289 | - | 62,523 |
| 50 to 54 | - | - | - | - | 56,417 | 59,909 | 64,478 | 69,116 | 63,310 |
| 55 to 59 | - | - | 55,956 | - | 57,359 | 59,764 | 63,429 | 69,414 | 64,752 |
| 60 to 64 | - | - | - | - | - | 55,889 | 56,277 | 72,588 | 68,266 |
| 65 & up | - | - | - | - | - | - | - | 65,013 | 65,013 |



APPENDIX A MEMBERSHIP INFORMATION

Table A-11
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Fire (Plan 67)

COUNTS BY AGE/SERVICE

| | | | | Servi | ce | | | | |
|----------|---------|--------|----------|---------|----------|----------|----------|---------|-------|
| Age | Under 1 | 1 to 4 | 5 to 9 1 | 0 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 to 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 to 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 to 39 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 40 to 44 | 0 | 0 | 0 | 0 | 15 | 10 | 0 | 0 | 25 |
| 45 to 49 | 0 | 0 | 0 | 0 | 17 | 106 | 7 | 0 | 130 |
| 50 to 54 | 0 | 0 | 0 | 1 | 13 | 89 | 24 | 56 | 183 |
| 55 to 59 | 0 | 0 | 0 | 0 | 4 | 32 | 35 | 97 | 168 |
| 60 to 64 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 9 | 14 |
| 65 & up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 0 | 0 | 0 | 1 | 52 | 237 | 70 | 163 | 523 |

Table A-12
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Fire (Plan 67)

| | | | | Servic | e | | | | |
|----------|---------|--------|--------|----------|----------|----------|----------|---------|--------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | \$ - \$ | - \$ | - \$ | - \$ | - | \$ - | \$ - | \$ - | \$ - |
| 25 to 29 | - | - | - | - | - | - | - | - | - |
| 30 to 34 | - | - | - | - | - | - | - | - | - |
| 35 to 39 | - | - | - | - | 59,494 | - | - | - | 59,494 |
| 40 to 44 | - | - | - | - | 59,982 | 61,280 | - | - | 60,501 |
| 45 to 49 | - | - | - | - | 56,582 | 60,871 | 59,999 | - | 60,263 |
| 50 to 54 | - | - | - | 55,243 | 56,597 | 59,329 | 62,862 | 66,591 | 61,798 |
| 55 to 59 | - | - | - | - | 56,993 | 58,798 | 62,643 | 68,054 | 64,900 |
| 60 to 64 | - | - | - | - | 55,602 | - | 65,123 | 70,506 | 67,904 |
| 65 & up | - | - | - | - | - | - | - | 85,060 | 85,060 |



APPENDIX A MEMBERSHIP INFORMATION

Table A-13
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Municipal (Plan 87)

COUNTS BY AGE/SERVICE

| | | | | Serv | ice | | | | |
|----------|---------|--------|--------|----------|----------|----------|----------|---------|--------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | 282 | 353 | 29 | 0 | 0 | 0 | 0 | 0 | 664 |
| 25 to 29 | 261 | 892 | 303 | 29 | 0 | 0 | 1 | 0 | 1,486 |
| 30 to 34 | 163 | 667 | 635 | 187 | 15 | 0 | 0 | 0 | 1,667 |
| 35 to 39 | 136 | 525 | 828 | 534 | 74 | 9 | 0 | 0 | 2,106 |
| 40 to 44 | 142 | 559 | 651 | 563 | 148 | 29 | 3 | 1 | 2,096 |
| 45 to 49 | 128 | 461 | 650 | 564 | 135 | 49 | 10 | 2 | 1,999 |
| 50 to 54 | 111 | 392 | 573 | 451 | 117 | 39 | 25 | 15 | 1,723 |
| 55 to 59 | 62 | 281 | 437 | 366 | 97 | 22 | 15 | 31 | 1,311 |
| 60 to 64 | 36 | 145 | 247 | 142 | 45 | 18 | 5 | 16 | 654 |
| 65 & up | 29 | 83 | 120 | 63 | 9 | 0 | 2 | 13 | 319 |
| Total | 1,350 | 4,358 | 4,473 | 2,899 | 640 | 166 | 61 | 78 | 14,025 |

Table A-14
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Municipal (Plan 87)

| | | | | Ser | vice | 9 | | | | | |
|----------|--------------|--------------|--------------|----------|------|----------|----------|----------|----|---------|--------------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | | 15 to 19 | 20 to 24 | 25 to 29 | 3 | 30 & Up | Total |
| Under 25 | \$ 21,488 | \$ 25,291 | \$ 27,664 | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ 23,779 |
| 25 to 29 | 32,177 | 38,250 | 41,280 | 40,148 | | - | - | 35,456 | | - | 37,836 |
| 30 to 34 | 32,515 | 41,272 | 46,044 | 44,133 | | 47,213 | - | - | | - | 42,608 |
| 35 to 39 | 30,930 | 40,624 | 46,586 | 49,565 | | 48,770 | 47,776 | - | | - | 44,926 |
| 40 to 44 | 27,308 | 38,959 | 43,439 | 46,661 | | 53,967 | 45,286 | 39,188 | | 59,552 | 42,787 |
| 45 to 49 | 28,489 | 37,899 | 42,354 | 46,143 | | 51,228 | 51,246 | 45,135 | | 46,656 | 42,343 |
| 50 to 54 | 29,671 | 36,510 | 41,748 | 45,274 | | 49,048 | 51,122 | 49,350 | | 42,979 | 41,530 |
| 55 to 59 | 26,129 | 36,367 | 41,946 | 43,249 | | 50,346 | 41,197 | 50,500 | | 49,073 | 41,241 |
| 60 to 64 | 23,615 | 35,925 | 40,140 | 43,415 | | 44,265 | 41,107 | 37,490 | | 43,535 | 39,380 |
| 65 & up | 21,539 | 25,998 | 32,912 | 34,911 | | 34,052 | - | 42,465 | | 50,861 | 31,298 |



APPENDIX A MEMBERSHIP INFORMATION

Table A-15
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Elected (Plan 87)

COUNTS BY AGE/SERVICE

| | | | | Servio | e | | | | |
|----------|---------|--------|--------|---------|----------|----------|----------|---------|-------|
| Age | Under 1 | 1 to 4 | 5 to 9 |) to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 to 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 to 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 to 39 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 40 to 44 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 45 to 49 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 50 to 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 to 59 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 6 |
| 60 to 64 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 4 |
| 65 & up | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 2 | 6 |
| Total | 0 | 1 | 2 | 5 | 3 | 1 | 4 | 3 | 19 |

Table A-16

Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Elected (Plan 87)

| | | | | Ser | vice | | | | |
|----------|---------|---------|------------|----------|----------|----------|----------|---------|---------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | \$ - | \$ - : | 5 - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 25 to 29 | - | - | - | - | = | - | - | - | - |
| 30 to 34 | - | - | - | - | - | - | - | - | - |
| 35 to 39 | - | - | - | 105,800 | = | - | - | - | 105,800 |
| 40 to 44 | - | - | 105,800 | - | - | - | - | - | 105,800 |
| 45 to 49 | - | - | - | - | 105,800 | - | - | - | 105,800 |
| 50 to 54 | - | - | - | - | - | - | - | - | - |
| 55 to 59 | - | 109,000 | 105,800 | - | - | - | 105,800 | 111,199 | 107,233 |
| 60 to 64 | - | - | - | 106,520 | - | - | 113,358 | - | 108,230 |
| 65 & up | - | - | - | 105,801 | 105,800 | 111,199 | - | 119,296 | 111,199 |



APPENDIX A MEMBERSHIP INFORMATION

Table A-17
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Police (Plan 87)

COUNTS BY AGE/SERVICE

| | | | | Serv | ice | | | | |
|----------|---------|--------|--------|----------|----------|----------|----------|---------|-------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | 170 | 92 | 4 | 0 | 0 | 0 | 0 | 0 | 266 |
| 25 to 29 | 123 | 329 | 209 | 9 | 0 | 0 | 0 | 0 | 670 |
| 30 to 34 | 74 | 221 | 396 | 302 | 2 | 0 | 0 | 1 | 996 |
| 35 to 39 | 34 | 135 | 301 | 647 | 268 | 1 | 0 | 0 | 1,386 |
| 40 to 44 | 4 | 41 | 120 | 370 | 492 | 2 | 0 | 2 | 1,031 |
| 45 to 49 | 0 | 17 | 46 | 175 | 276 | 4 | 4 | 0 | 522 |
| 50 to 54 | 0 | 8 | 28 | 64 | 147 | 1 | 2 | 0 | 250 |
| 55 to 59 | 0 | 0 | 11 | 21 | 19 | 0 | 0 | 0 | 51 |
| 60 to 64 | 0 | 2 | 1 | 2 | 0 | 0 | 1 | 0 | 6 |
| 65 & up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 405 | 845 | 1,116 | 1,590 | 1,204 | 8 | 7 | 4 | 5,179 |

Table A-18
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Police (Plan 87)

| | Service | | | | | | | | | | | | | | |
|----------|---------|---------|----|--------|----|--------|----|----------|----|----------|----|----------|----------|---------|--------------|
| Age | | Under 1 | | 1 to 4 | | 5 to 9 | | 10 to 14 | | 15 to 19 | | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | \$ | 39,486 | \$ | 47,250 | \$ | 46,171 | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ 42,272 |
| 25 to 29 | | 39,935 | | 51,209 | | 54,498 | | 49,582 | | - | | - | - | - | 50,143 |
| 30 to 34 | | 39,816 | | 51,876 | | 55,055 | | 56,327 | | 55,128 | | - | - | 55,315 | 53,604 |
| 35 to 39 | | 39,973 | | 51,560 | | 54,994 | | 56,583 | | 59,328 | | 55,689 | - | - | 55,871 |
| 40 to 44 | | 40,484 | | 51,376 | | 55,094 | | 56,416 | | 58,483 | | 58,473 | - | 62,165 | 57,001 |
| 45 to 49 | | - | | 54,289 | | 55,260 | | 56,399 | | 58,097 | | 59,184 | 57,611 | - | 57,158 |
| 50 to 54 | | - | | 54,400 | | 55,215 | | 55,977 | | 57,416 | | 72,718 | 55,689 | - | 56,752 |
| 55 to 59 | | - | | - | | 54,950 | | 55,525 | | 56,669 | | - | - | - | 55,827 |
| 60 to 64 | | - | | 52,487 | | 54,940 | | 55,315 | | - | | - | 56,277 | - | 54,470 |
| 65 & up | | - | | - | | - | | - | | - | | - | - | 63,057 | 63,057 |



APPENDIX A MEMBERSHIP INFORMATION

Table A-19
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Fire (Plan 87)

COUNTS BY AGE/SERVICE

| | Service | | | | | | | | | | |
|----------|---------|--------|--------|----------|----------|----------|----------|---------|-------|--|--|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 & Up | Total | | |
| Under 25 | 57 | 35 | 4 | 0 | 0 | 0 | 0 | 0 | 96 | | |
| 25 to 29 | 62 | 137 | 26 | 3 | 0 | 0 | 0 | 0 | 228 | | |
| 30 to 34 | 27 | 109 | 103 | 24 | 2 | 0 | 0 | 0 | 265 | | |
| 35 to 39 | 17 | 88 | 114 | 144 | 20 | 0 | 0 | 0 | 383 | | |
| 40 to 44 | 3 | 38 | 48 | 137 | 91 | 2 | 0 | 0 | 319 | | |
| 45 to 49 | 0 | 8 | 17 | 71 | 91 | 3 | 1 | 0 | 191 | | |
| 50 to 54 | 0 | 4 | 12 | 21 | 48 | 0 | 0 | 1 | 86 | | |
| 55 to 59 | 0 | 1 | 2 | 8 | 13 | 0 | 0 | 1 | 25 | | |
| 60 to 64 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | |
| 65 & up | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | | |
| Total | 166 | 420 | 327 | 410 | 265 | 5 | 1 | 2 | 1,596 | | |

Table A-20
Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2007 -- Fire (Plan 87)

| | Service | | | | | | | | | | | | | | |
|----------|---------|---------|----|--------|----|--------|----|----------|----|----------|----|----------|----------|---------|--------------|
| Age | | Under 1 | | 1 to 4 | | 5 to 9 | | 10 to 14 | | 15 to 19 | | 20 to 24 | 25 to 29 | 30 & Up | Total |
| Under 25 | \$ | 38,481 | \$ | 42,081 | \$ | 39,816 | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ 39,849 |
| 25 to 29 | | 38,481 | | 45,768 | | 51,685 | | 42,729 | | - | | - | - | - | 44,421 |
| 30 to 34 | | 38,481 | | 48,076 | | 55,412 | | 54,967 | | 53,128 | | - | - | - | 50,612 |
| 35 to 39 | | 38,481 | | 47,406 | | 56,266 | | 56,635 | | 55,734 | | - | - | - | 53,552 |
| 40 to 44 | | 38,481 | | 48,674 | | 57,699 | | 56,677 | | 59,045 | | 71,862 | - | - | 56,477 |
| 45 to 49 | | - | | 48,258 | | 57,129 | | 57,365 | | 58,684 | | 55,688 | 55,602 | - | 57,555 |
| 50 to 54 | | - | | 48,916 | | 57,116 | | 56,781 | | 58,405 | | - | - | 55,602 | 57,355 |
| 55 to 59 | | - | | 52,442 | | 52,688 | | 58,056 | | 56,597 | | - | _ | 55,243 | 56,531 |
| 60 to 64 | | - | | - | | - | | 60,766 | | - | | - | - | - | 60,766 |
| 65 & up | | - | | - | | 60,371 | | 55,243 | | - | | - | - | - | 57,807 |



APPENDIX A MEMBERSHIP INFORMATION

Table A-21 Reconciliation of Plan Membership

| | Reconcination of Fain Membership | | | | | | | | | | |
|--------------------------|----------------------------------|-----------|-------|-----------|---------|--------|-------|-------------------|--|--|--|
| | | 1967 Plan | | | Plan | 87 | | | | | |
| | Municipal | Police | Fire | Municipal | Elected | Police | Fire | Total City | | | |
| Active | | | | | | | | | | | |
| Active July 1, 2006 | 6,397 | 1,336 | 564 | 13,485 | 20 | 4,843 | 1,372 | 28,017 | | | |
| New Entrants and Rehires | 40 | 5 | 2 | 2,065 | 2 | 496 | 270 | 2,880 | | | |
| Refunded Contributions | -20 | -2 | 0 | -542 | 0 | -36 | -9 | -609 | | | |
| Terminated Vested | -79 | -3 | 0 | -119 | 0 | -34 | -11 | -246 | | | |
| Became Disabled | -45 | -2 | 0 | -17 | 0 | -8 | -3 | -75 | | | |
| Retired | -120 | -25 | -8 | -53 | 0 | -10 | -3 | -219 | | | |
| Entered DROP | -313 | -58 | -33 | -46 | -2 | -2 | -3 | -457 | | | |
| Net Other Terminations | -96 | -3 | -2 | -748 | -1 | -70 | -17 | -937 | | | |
| Active July 1, 2007 | 5,764 | 1,248 | 523 | 14,025 | 19 | 5,179 | 1,596 | 28,354 | | | |
| Retired | | | | | | | | | | | |
| Retired July 1, 2006 | 12,089 | 5,509 | 1,894 | 311 | 9 | 27 | 14 | 19,853 | | | |
| New Retirees | 862 | 208 | 102 | 98 | 0 | 18 | 4 | 1,292 | | | |
| Net Other Terminations | -510 | -120 | -57 | -7 | 0 | -3 | 0 | -697 | | | |
| Retired July 1, 2007 | 12,441 | 5,597 | 1,939 | 402 | 9 | 42 | 18 | 20,448 | | | |
| Beneficiary | | | | | | | | | | | |
| Beneficiary July 1, 2006 | 5,439 | 2,136 | 899 | 74 | 3 | 61 | 25 | 8,637 | | | |
| New Beneficiaries | 246 | 91 | 42 | 21 | 0 | 8 | 0 | 408 | | | |
| Net Other Terminations | -307 | -78 | -65 | -1 | 0 | -1 | 0 | -452 | | | |
| Beneficiary July 1, 2007 | 5,378 | 2,149 | 876 | 94 | 3 | 68 | 25 | 8,593 | | | |



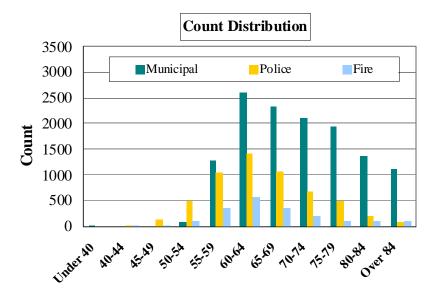
| Table A-21 |
|--|
| Reconciliation of Plan Membership (continued) |

| | | | | 1 \ | , | | | | | | | |
|--------------------------------|-----------|-----------|------|-----------|---------|--------|------|-------------------|--|--|--|--|
| | | 1967 Plan | | | Plan 87 | | | | | | | |
| | Municipal | Police | Fire | Municipal | Elected | Police | Fire | Total City | | | | |
| Disabled | | | | | | | | | | | | |
| Disabled July 1, 2006 | 1,924 | 1,872 | 438 | 78 | 0 | 111 | 16 | 4,439 | | | | |
| New Disabilities | 67 | 8 | 0 | 25 | 0 | 13 | 4 | 117 | | | | |
| Net Other Terminations | -96 | -54 | -17 | -2 | 0 | -3 | 0 | -172 | | | | |
| Disabled July 1, 2007 | 1,895 | 1,826 | 421 | 101 | 0 | 121 | 20 | 4,384 | | | | |
| Terminated Vested | | | | | | | | | | | | |
| Terminated Vested July 1, 2006 | 560 | 8 | 2 | 202 | 0 | 30 | 7 | 809 | | | | |
| New Vested Terminations | 319 | 9 | 0 | 247 | 0 | 58 | 17 | 650 | | | | |
| Net Other Terminations | -141 | -5 | -2 | -8 | 0 | -2 | 0 | -158 | | | | |
| Terminated Vested July 1, 2007 | 738 | 12 | 0 | 441 | 0 | 86 | 24 | 1,301 | | | | |
| DROP | | | | | | | | | | | | |
| DROP July 1, 2006 | 1,749 | 441 | 296 | 126 | 3 | 10 | 0 | 2,625 | | | | |
| New DROP Participants | 317 | 59 | 33 | 46 | 2 | 2 | 3 | 462 | | | | |
| Net Other Terminations | -666 | -182 | -99 | -33 | 0 | -5 | 0 | -985 | | | | |
| DROP July 1, 2007 | 1,400 | 318 | 230 | 139 | 5 | 7 | 3 | 2,102 | | | | |



Table A-22
Age Distribution of Retired Members as of July 1, 2007

| | Municipal | | | Police | | Fire | | |
|----------|-----------|-----------------|-------|------------------------|-------|------------------------|--|--|
| Age | Count | Annual Pensions | Count | Annual Pensions | Count | Annual Pensions | | |
| Under 40 | 2 | \$ 23,890 | 0 | \$ - | 0 | \$ - | | |
| 40-44 | 0 | 0 | 16 | 256,570 | 3 | 42,466 | | |
| 45-49 | 0 | 0 | 130 | 3,158,956 | 25 | 520,687 | | |
| 50-54 | 80 | 1,761,924 | 496 | 12,956,975 | 96 | 2,602,134 | | |
| 55-59 | 1,282 | 31,655,383 | 1,052 | 28,120,327 | 352 | 10,924,341 | | |
| 60-64 | 2,617 | 65,252,215 | 1,408 | 37,130,520 | 575 | 17,978,324 | | |
| 65-69 | 2,323 | 47,554,764 | 1,070 | 24,434,892 | 368 | 10,906,077 | | |
| 70-74 | 2,106 | 37,645,140 | 675 | 13,196,940 | 210 | 5,020,436 | | |
| 75-79 | 1,939 | 28,731,578 | 503 | 9,495,293 | 106 | 2,150,594 | | |
| 80-84 | 1,379 | 16,283,063 | 203 | 3,889,550 | 106 | 1,927,143 | | |
| Over 84 | 1,124 | 9,128,563 | 86 | 1,222,066 | 116 | 1,702,977 | | |
| Total | 12,852 | 238,036,520 | 5,639 | 133,862,089 | 1,957 | 53,775,179 | | |



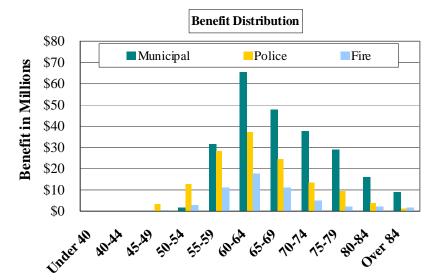
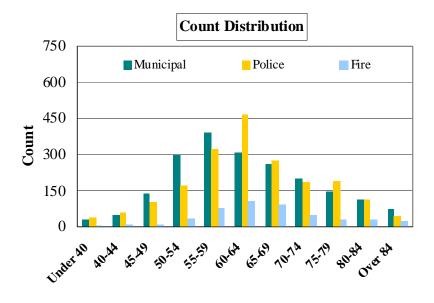




Table A-23
Age Distribution of Disabled Members as of July 1, 2007

| | Municipal | | Police | | Fire | |
|----------|-----------|-----------------|--------|------------------------|-------|------------------------|
| Age | Count | Annual Pensions | Count | Annual Pensions | Count | Annual Pensions |
| Under 40 | 27 | \$ 559,006 | 35 | \$ 1,043,167 | 4 | \$ 116,547 |
| 40-44 | 48 | 869,368 | 55 | 1,552,578 | 8 | 224,365 |
| 45-49 | 135 | 2,468,944 | 101 | 2,560,335 | 8 | 203,240 |
| 50-54 | 297 | 5,893,593 | 171 | 3,873,138 | 30 | 713,205 |
| 55-59 | 393 | 7,141,839 | 323 | 6,512,607 | 77 | 1,593,349 |
| 60-64 | 309 | 5,580,609 | 464 | 8,296,712 | 107 | 1,940,996 |
| 65-69 | 258 | 3,709,750 | 271 | 3,996,552 | 89 | 1,628,957 |
| 70-74 | 198 | 2,401,383 | 183 | 2,290,934 | 46 | 883,504 |
| 75-79 | 146 | 1,407,483 | 188 | 2,217,499 | 26 | 474,901 |
| 80-84 | 111 | 998,167 | 112 | 1,332,305 | 25 | 362,114 |
| Over 84 | 74 | 589,575 | 44 | 542,388 | 21 | 291,744 |
| Total | 1,996 | 31,619,717 | 1,947 | 34,218,215 | 441 | 8,432,922 |



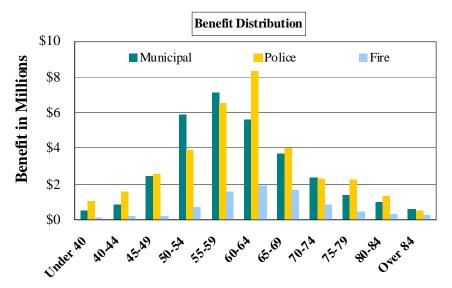
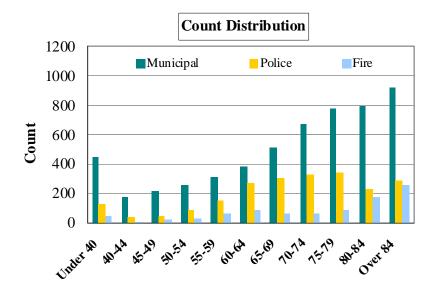




Table A-24
Age Distribution of Beneficiaries as of July 1, 2007

| | Municipal | | | Police | | Fire | |
|----------|-----------|-----------------|-------|------------------------|-------|------------------------|--|
| Age | Count | Annual Pensions | Count | Annual Pensions | Count | Annual Pensions | |
| Under 40 | 450 | \$ 2,632,817 | 126 | \$ 825,957 | 46 | \$ 344,062 | |
| 40-44 | 174 | 1,034,826 | 41 | 353,178 | 10 | 108,946 | |
| 45-49 | 212 | 1,234,205 | 46 | 430,290 | 23 | 332,510 | |
| 50-54 | 254 | 1,965,063 | 85 | 947,079 | 29 | 479,265 | |
| 55-59 | 312 | 2,756,423 | 151 | 1,780,352 | 60 | 809,050 | |
| 60-64 | 388 | 3,550,660 | 273 | 2,756,915 | 85 | 916,534 | |
| 65-69 | 515 | 4,311,421 | 303 | 2,597,446 | 66 | 710,621 | |
| 70-74 | 675 | 4,940,722 | 326 | 2,488,802 | 62 | 517,445 | |
| 75-79 | 779 | 4,874,377 | 345 | 2,372,132 | 90 | 660,458 | |
| 80-84 | 795 | 4,106,013 | 234 | 1,494,638 | 173 | 1,135,089 | |
| Over 84 | 921 | 3,807,803 | 287 | 1,280,261 | 257 | 1,277,174 | |
| Total | 5,475 | 35,214,330 | 2,217 | 17,327,050 | 901 | 7,291,154 | |



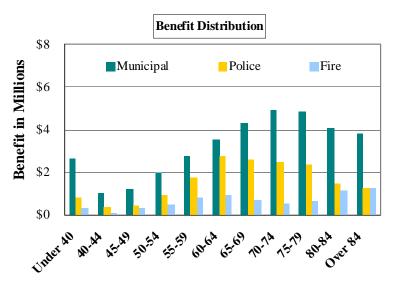
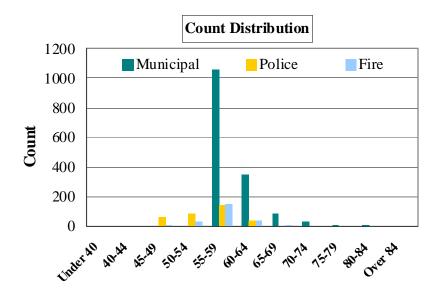




Table A-25
Age Distribution of DROP Participants as of July 1, 2007

| | Municipal | | Police | | Fire | |
|----------|-----------|-----------------|--------|------------------------|-------|------------------------|
| Age | Count | Annual Pensions | Count | Annual Pensions | Count | Annual Pensions |
| Under 40 | 0 | \$ - | 0 | \$ - | 0 | \$ - |
| 40-44 | 1 | 76,537 | 0 | 0 | 0 | 0 |
| 45-49 | 0 | 0 | 59 | 1,816,259 | 8 | 249,241 |
| 50-54 | 0 | 0 | 83 | 2,891,365 | 32 | 1,280,600 |
| 55-59 | 1,064 | 35,595,444 | 139 | 5,334,658 | 149 | 6,505,406 |
| 60-64 | 350 | 8,317,708 | 42 | 1,992,869 | 41 | 2,042,437 |
| 65-69 | 88 | 1,766,883 | 1 | 69,017 | 3 | 153,850 |
| 70-74 | 28 | 465,739 | 1 | 89,580 | 0 | 0 |
| 75-79 | 9 | 136,644 | 0 | 0 | 0 | 0 |
| 80-84 | 3 | 56,569 | 0 | 0 | 0 | 0 |
| Over 84 | 1 | 23,220 | 0 | 0 | 0 | 0 |
| Total | 1,544 | 46,438,744 | 325 | 12,193,748 | 233 | 10,231,534 |



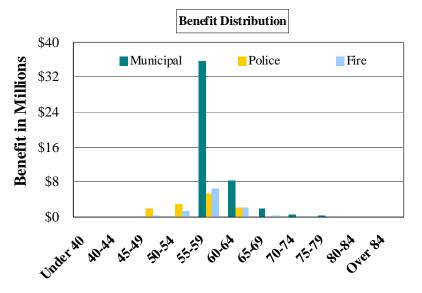
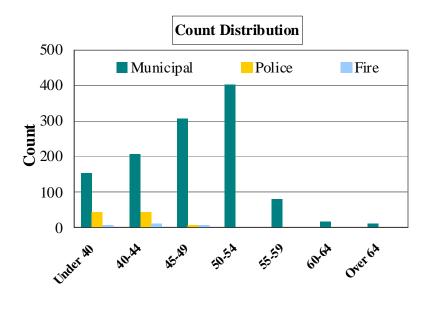
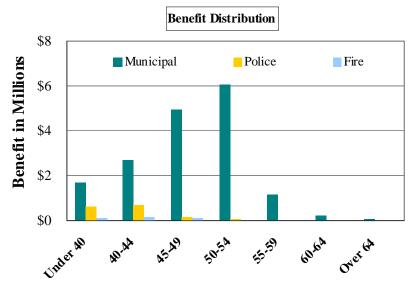




Table A-26
Age Distribution of Terminated Vested Members as of July 1, 2007

| | Municipal | | Police | | Fire | | | | |
|----------|-----------|-----|---------------|-------|------|---------------|-------|-----|--------------|
| Age | Count | Anı | nual Pensions | Count | Anr | nual Pensions | Count | Ann | ual Pensions |
| Under 40 | 153 | \$ | 1,665,749 | 44 | \$ | 612,045 | 7 | \$ | 94,500 |
| 40-44 | 207 | | 2,689,881 | 45 | | 674,563 | 10 | | 135,613 |
| 45-49 | 306 | | 4,930,927 | 7 | | 122,509 | 7 | | 96,865 |
| 50-54 | 405 | | 6,039,994 | 2 | | 35,637 | 0 | | 0 |
| 55-59 | 80 | | 1,123,466 | 0 | | 0 | 0 | | 0 |
| 60-64 | 16 | | 178,840 | 0 | | 0 | 0 | | 0 |
| Over 64 | 12 | | 55,119 | 0 | | 0 | 0 | | 0 |
| Total | 1,179 | | 16,683,976 | 98 | | 1,444,754 | 24 | | 326,978 |







APPENDIX A MEMBERSHIP INFORMATION

Data Assumptions and Practices

In preparing our data, we relied, without audit, on information supplied by the City of Philadelphia Municipal Retirement System staff. This information includes, but is not limited to, plan provisions, employee data, and financial information. Our methodology for obtaining the data used for the valuation is based upon the following assumptions and practices:

- We exclude raw active records with dates of hire after the valuation date.
- We include terminated vested records in the valuation data, regardless of whether they have enough service for vesting.
- We delete terminated vested and retired records with values of zero in the benefit field.
- If a participant is found in multiple data files (e.g., both the active and retired data files), based on a match of both employee number and Social Security Number, we first attempt to identify the record with the most recent status change, and keep only that record. If it is not apparent which record is the most recent, we keep the record that generates the highest liability in our valuation system.
- If a participant is found multiple times in the same data file, based on a match of both employee number and Social Security Number, we keep the record that generates the highest liability in our valuation system.
- Valuation pay reflects a load of 4% of pay for police (stress pay) and firefighters (premium pay).
- The date of retirement for a terminated vested participant was set to the valuation date, if the given date was earlier.
- If the payment form field for pensioners is missing, we assume that 1967 Plan members receive a 50% J&S annuity with a return of contributions in excess of payments received upon death of the member, and we assume that Plan 87 members receive a life annuity, also with a return of contributions. However, if the pensioner is a beneficiary or survivor, we assume that they receive a life annuity only.
- Records with missing dates of birth have their data filled in based on the average for their plan.
- We assumed that all changes in participant data from last year to this year were valid unless indicated otherwise by System staff.

- HEIRON

APPENDIX B SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

A. Actuarial Assumptions

1. Investment Return Assumption

8.75% compounded annually, net of expenses.

2. Salary Increase Rate

5.0% per year (2.75% due to inflation, 1.5% due to seniority/merit, and 0.75% due to general productivity).

3. Total Annual Payroll Growth

4.0% per year.

4. Administrative Expenses

Annual expected expenses included in this report are \$7,200,000, increasing by 4.0% per year.

5. Rates of Termination

| | | 1967 Plan | Plan 87 | | |
|-----|----------|-----------|-----------|---------------------------------|-----------|
| | Muni | icipal | Uniformed | Municipal and Elected Officials | Uniformed |
| Age | Male | Female | Unisex | Unisex | Unisex |
| 20 | 0.100000 | 0.105319 | 0.022050 | 0.260000 | 0.030000 |
| 25 | 0.086000 | 0.096000 | 0.021148 | 0.150000 | 0.037800 |
| 30 | 0.072000 | 0.071562 | 0.019148 | 0.105000 | 0.029900 |
| 35 | 0.045000 | 0.056170 | 0.016148 | 0.090000 | 0.025200 |
| 40 | 0.035000 | 0.039379 | 0.012148 | 0.090000 | 0.015400 |
| 45 | 0.030000 | 0.035597 | 0.000000 | 0.075000 | 0.010000 |
| 50 | 0.020000 | 0.022400 | 0.000000 | 0.065000 | 0.000000 |
| 55 | 0.000000 | 0.000000 | 0.000000 | 0.050000 | 0.000000 |

We assume that a vested employee who terminates will elect a pension deferred to service retirement age as long as their age plus years of service at termination are greater than or equal to 55 (45 for police and fire employees in the 1967 Plan). Otherwise we assume they elect a refund of member contributions.



APPENDIX B SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

6. Rates of Disability

| Municipal and Elected Officials | | | Uniformed |
|---------------------------------|----------|----------|-----------|
| Age | Male | Female | Unisex |
| 20 | 0.000025 | 0.000043 | 0.000795 |
| 25 | 0.000070 | 0.000061 | 0.000870 |
| 30 | 0.000557 | 0.000263 | 0.001418 |
| 35 | 0.001514 | 0.000620 | 0.001918 |
| 40 | 0.001800 | 0.001314 | 0.001934 |
| 45 | 0.003840 | 0.002359 | 0.002334 |
| 50 | 0.007600 | 0.004285 | 0.002654 |
| 55 | 0.008680 | 0.007088 | 0.000000 |

For municipal and elected members, we assume that 70% of all disabilities are ordinary and 30% are service-connected. For police and fire members, we assume that 50% are ordinary and 50% are service-connected.

7. Rates of Pre-Retirement Mortality (GAM 94)

| | All Divisions | | | |
|-----|---------------|----------|--|--|
| Age | Male | Female | | |
| 20 | 0.000507 | 0.000284 | | |
| 25 | 0.000661 | 0.000291 | | |
| 30 | 0.000801 | 0.000351 | | |
| 35 | 0.000851 | 0.000478 | | |
| 40 | 0.001072 | 0.000709 | | |
| 45 | 0.001578 | 0.000973 | | |
| 50 | 0.002579 | 0.001428 | | |
| 55 | 0.004425 | 0.002294 | | |
| 60 | 0.007976 | 0.004439 | | |
| 65 | 0.014535 | 0.008636 | | |

For municipal and elected members, we assume that 98.5% of all deaths are ordinary, with 1.5% service-connected. For police and fire members, 92% are assumed to be ordinary and 8% service-connected.

8. Rates of Post-Retirement Mortality

We assume that mortality for healthy inactive lives will follow 150% of the GAM 94 Mortality Table for males and females as appropriate, except that mortality for male municipal members is assumed to follow 140% of the GAM 94 Mortality Table.



APPENDIX B SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

9. Rates of Post-Disability Mortality

The rates of mortality for retired disabled lives are assumed to be the same as those for healthy inactive lives, adjusted by application of the following adjustment factors shown below.

| Post-Disablement Mortality Adjustment Factors | | | | | | | |
|---|---------------|-------------------|----------------|-----------|--|--|--|
| | Municipal and | Elected Officials | _ | Uniformed | | | |
| Age | Male | Female | Age | Unisex | | | |
| 47 and younger | 7.3 | 11.7 | 42 and younger | 2.8 | | | |
| 50 | 6.8 | 10.5 | 45 | 2.0 | | | |
| 55 | 5.6 | 7.4 | 50 | 1.3 | | | |
| 60 | 3.6 | 4.9 | 55 | 1.2 | | | |
| 65 | 2.4 | 3.4 | 60 and up | 1.0 | | | |
| 70 | 2.1 | 1.9 | | | | | |
| 75 | 1.7 | 1.3 | | | | | |
| 80 | 1.2 | 1.2 | | | | | |
| 83 and up | 1.0 | 1.0 | | | | | |

10. Rates of Retirement

| | Rates of Service Retirement - 1967 Plan | | | | | | |
|-----------|---|-----------|--|--|--|--|--|
| | Municipal | Uniformed | | | | | |
| Age | | | | | | | |
| 45-49 | - | 0.08 | | | | | |
| 50-53 | - | 0.12 | | | | | |
| 54 | - | 0.17 | | | | | |
| 55 | 0.35 | 0.20 | | | | | |
| 56 | 0.20 | 0.20 | | | | | |
| 57-61 | 0.12 | 0.20 | | | | | |
| 62 | 0.40 | 0.20 | | | | | |
| 63-69 | 0.20 | 0.20 | | | | | |
| 70 and up | 1.00 | 1.00 | | | | | |



APPENDIX B SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

| | Rates of Service Retirement - Plan 87 | | | | | | | |
|-------|---------------------------------------|-------------------|---------------------|------------------|--|--|--|--|
| | Municipal and I | Elected Officials | Uniformed | | | | | |
| Age | First Year Eligible | Subsequent Years | First Year Eligible | Subsequent Years | | | | |
| 40-51 | - | - | 0.300 | 0.125 | | | | |
| 52 | 0.450 | 0.060 | 0.300 | 0.140 | | | | |
| 53 | 0.420 | 0.060 | 0.300 | 0.150 | | | | |
| 54 | 0.390 | 0.060 | 0.300 | 0.170 | | | | |
| 55 | 0.360 | 0.060 | 0.300 | 0.190 | | | | |
| 56 | 0.330 | 0.060 | 0.300 | 0.215 | | | | |
| 57 | 0.300 | 0.060 | 0.300 | 0.225 | | | | |
| 58 | 0.300 | 0.060 | 0.300 | 0.225 | | | | |
| 59 | 0.300 | 0.080 | 0.300 | 0.230 | | | | |
| 60 | 0.300 | 0.100 | 0.300 | 0.230 | | | | |
| 61 | 0.350 | 0.150 | 0.300 | 0.245 | | | | |
| 62 | 0.430 | 0.300 | 0.300 | 0.295 | | | | |
| 63 | 0.500 | 0.187 | 0.300 | 0.265 | | | | |
| 64 | 0.500 | 0.199 | 0.300 | 0.260 | | | | |
| 65 | 0.600 | 0.309 | 0.300 | 1.000 | | | | |
| 66 | 0.600 | 0.232 | - | - | | | | |
| 67 | 0.600 | 0.214 | - | - | | | | |
| 68 | 0.600 | 0.214 | - | - | | | | |
| 69 | 0.600 | 0.238 | - | - | | | | |
| 70 | 0.600 | 1.000 | - | - | | | | |

11. Family Composition Assumptions

70% of active members and 60% of non-active members are assumed to be married. Male spouses are assumed to be four years older than female spouses.

12. Changes Since Last Valuation

As Cheiron's first valuation for the City of Philadelphia Municipal Retirement System, we have maintained the same assumption set as the prior actuary until we can identify areas of consideration for change that we would recommend to the Board.



APPENDIX B SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

B. Actuarial Methods

1. Actuarial Funding Method

The Entry Age Normal actuarial funding method was used for active employees, whereby the normal cost is computed as the level annual percentage of pay required to fund the retirement benefits between each member's date of hire and assumed retirement. The actuarial liability is the difference between the present value of future benefits and the present value of future normal cost. The unfunded actuarial liability is the difference between the actuarial liability and the actuarial value of assets.

The Dombrowski unfunded actuarial liability (UAL) is amortized with level-dollar payments over a period of 40 years, ending June 30, 2009. The initial July 1, 1985 UAL is amortized over 34 years ending June 30, 2019, with payments increasing at 4% per year, the assumed payroll growth. Other changes in the actuarial liability are amortized in level-dollar payments as follows:

- Actuarial gains and losses 15 years
- Assumption changes 20 years
- Plan changes for active members 20 years
- Plan changes for inactive members 10 years

For the purposes of the MMO under Act 205, the initial July 1, 1985 UAL is amortized over 40 years ending June 30, 2026, with payments increasing at 4% per year, the assumed payroll growth. A July 2004 amendment to Act 205 allowed for the portion of the July 1, 2003 UAL attributable to 2001 and 2002 calendar year investment returns to be amortized over 30 rather than 15 years.

2. Asset Valuation Method

The actuarial value of assets (AVA) is determined using an adjusted market value. Under this method, a preliminary AVA is determined as the market value of assets on the valuation date, minus the existing balance of the Pension Adjustment Fund (PAF) rolled forward at the current year's market rate of return, minus a decreasing fraction (4/5, 3/5, 2/5, 1/5) of the gain or loss in each of the preceding four years. The gain or loss for a given year is the difference between the actual investment return (on a market-to-market basis) and the assumed investment return based on the market value of assets at the beginning of the year and actual cash flow. The AVA is adjusted, if necessary, to remain between 80% and 120% of the market value. The final AVA is determined by subtracting the additional transfer amount (if any) to the PAF.

3. Changes Since Last Valuation

None.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

This summary of plan provisions provides an overview of the major provisions of the pension plans used in the actuarial valuation. It is not intended to replace the more precise language of the retirement code, and if there is any difference between the description of the plans herein and the actual text of the retirement code, the retirement code will govern.

1. Participation

Municipal (Plan J):

Full-time employees participate on their date of employment. Temporary employees participate after completing six months employment. Participation is limited to employees hired before January 8, 1987. District Council 47 (Local 2186 or 2187) and 33 members hired between January 8, 1987 and October 1, 1992 were switched from Plan 87 to 1967 Plan effective on their hire dates, provided such employee contributed the difference between what they paid to the Plan and the amount they would have paid under Plan J.

Uniformed (Plans D and X): Same as municipal.

2. Credited Service

Municipal (Plan J):

Credited service means the period of employment with the City during which the employee makes contributions to the Retirement System. Certain leaves of absence may also be credited.

Uniformed (Plans D and X): Same as municipal.

3. Total Compensation

Municipal (Plan J):

Total compensation means the base rate of pay, longevity payments, and overtime received during a 12-month period.

Uniformed (Plans D and X):

Total compensation means the base rate of pay, longevity payments, and stress or premium pay (up to 4% of base pay) received during a 12-month period.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

4. Final Compensation

Municipal (Plan J):

Final compensation means whichever is greater: annual base rate of pay at the time of termination or the total compensation received during the 12 months immediately preceding termination, including supplementary compensation received under Civil Service Regulation No. 32.

Uniformed (Plans D and X): Same as municipal.

5. Average Final Compensation

Municipal (Plan J):

Average final compensation means the arithmetic average of the total compensation received during the three calendar or anniversary years that produces the highest average.

Uniformed (Plans D and X):

Average final compensation means the highest of:

- The total compensation received during the 12-month period; or
- The annual base rate of pay, excluding longevity payments, calculated from the final pay period; or
- The arithmetic average of the total compensation received during five calendar years of employment.

6. Employee Contributions

Municipal (Plan J):

Each employee who participates in the Social Security System, contributes 3 3/4% of total compensation up to the taxable wage base (\$90,000 in 2005 and \$92,400 in 2006 and 6% of total compensation above the taxable wage base to the Retirement System.

Each employee who does not participate in the Social Security System contributes 6% of his total compensation to the Retirement System.

Uniformed (Plans D and X): Same as municipal.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

7. Service Retirement

Eligibility

Municipal (Plan J):

Each municipal employee is eligible to retire and receive a service pension at age 55 with one year of service.

Uniformed (Plans D and X):

Each uniformed employee is eligible to retire and receive a service pension at age 45.

Benefit Amount

Municipal (Plan J):

The service pension equals 2 1/2% of the employee's average final compensation multiplied by credited service to a maximum of 20 years plus 2% of the employee's average final compensation multiplied by credited service above 20, to a maximum of 80% of the employee's average final compensation.

Uniformed (Plans D and X):

The service pension equals 2 1/2% of the employee's average final compensation multiplied by credited service, subject to a maximum of 100% of average final compensation.

8. Early Retirement

Eligibility

Municipal (Plan J):

Each municipal employee is eligible to retire receive a reduced service pension at age 52 if he has 10 or more years of credited service.

Uniformed (Plans D and X):

Each uniformed employee is eligible to retire and receive a reduced service pension at age 40 if he or she has 10 or more years of credited service.

Benefit Amount

Municipal (Plan J):

The annual amount is calculated the same as service retirement, reduced by 1/2 of 1% for each month the employee is younger than minimum retirement age.

Uniformed (Plans D and X):

Same as municipal.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

9. Deferred Vested Retirement

Eligibility

Municipal (Plan J):

A terminating employee who has completed 10 or more years of credited service is eligible for a deferred vested retirement benefit.

Uniformed (Plans D and X): Same as municipal.

Benefit Amount

Municipal (Plan J):

The annual deferred vested benefit is determined the same as service pensions, using average final compensation and credited service at termination. This benefit begins at service retirement date. If the member dies before the deferred vested benefit begins, an ordinary death benefit is payable (see Ordinary Death below). As an alternative before benefits begin, a plan member who is terminating employment may ask to have employee contributions returned (without interest) instead of receiving the deferred vested benefit.

Uniformed (Plans D and X): Same as municipal.

10. Withdrawal Benefit

Municipal (Plan J):

Each employee terminating who has completed less than 10 years of credited service will receive a withdrawal benefit equal to his or her employee contributions (without interest).

Uniformed (Plans D and X): Same as municipal.

11. Service-Connected Death

Eligibility

Municipal (Plan J):

The beneficiary of each active employee who dies solely from the performance of duties of the employee's position with the City is eligible for an immediate death benefit.

Uniformed (Plans D and X): Same as municipal.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

Benefit Amount

Municipal (Plan J):

The death benefit equals total employee contributions paid to the Retirement System, plus a yearly payment of 60% of the employee's final compensation reduced by any death benefits payable under the Worker's Compensation Act.

This benefit is payable to the spouse until his or her death or remarriage. Dependent children are entitled to an additional yearly payment of 10% of final compensation for each dependent child (up to two children) until the child reaches age 18. If there is no spouse, or if the spouse dies or remarries, each dependent child (up to three children) is entitled to receive a yearly payment of 25% of final compensation until the child reaches age 18.

If there is no spouse or dependent children, each dependent parent is entitled to receive a yearly payment of 15% of final compensation for life.

Uniformed (Plans D and X): Same as municipal.

12. Ordinary Death

Eligibility

Municipal (Plan J):

The beneficiary of an active employee (or a terminated vested employee who did not withdraw employee contributions) who dies after completing 10 years of credited service or reaching age 55 is eligible for an immediate death benefit equal to a yearly pension or a lump sum payment. The beneficiary of an active employee who dies before completing 10 years of credited service and reaching age 55 is eligible for a lump sum payment.

The beneficiary may be any relative by blood or marriage.

Uniformed (Plans D and X):

The beneficiary of any employee who dies while actively employed (or a terminated vested employee who did not withdraw employee contributions) is eligible for a death benefit equal to a yearly pension or a lump sum payment.

The beneficiary may be any relative by blood or marriage.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

Annual Pension

Municipal (Plan J):

The annual ordinary death pension, payable for life, is equal to the regular service pension the employee would have received if eligible to retire on the day before he died and had elected Option 2, joint and 100% contingent annuitant (see Survivor Benefits below).

Uniformed (Plans D and X):

The annual ordinary death pension, payable for life, is equal to the regular service pension the employee would have received (based on a minimum of 10 years of service) had the person been eligible to retire on the day before dying and had elected Option 2, joint and 100% contingent annuitant (see Survivor Benefits below).

Lump Sum Payment

Municipal (Plan J):

The lump sum payment is equal to 10% of the deceased employee's average final compensation multiplied by years of credited service to a maximum of 10, plus the deceased employee's contributions to the Retirement System, minus the total amount of the deceased employee's City-paid life insurance.

Uniformed (Plans D and X): Same as municipal.

13. Service-Connected Disability

Eligibility

Municipal (Plan J):

An active employee found by the Board of Pensions and Retirement to be mentally or physically permanently incapacitated (unable to perform duties) solely as the result of accident or injury during the performance of duties is eligible for an immediate service-connected disability pension.

Uniformed (Plans D and X): Same as municipal.

Benefit Amount

Municipal (Plan J):

The service-connected disability benefit is equal to the employee's Retirement System contributions, plus a yearly benefit of 70% of the employee's final compensation, reduced by any disability benefits payable under the Worker's Compensation Act. If he or she withdraws contributions, the benefit is payable for his or her lifetime only.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

If the employee leaves employee contributions with the Retirement System, he or she may choose a survivor benefit option (see Survivor Benefit below) and the beneficiary will continue receiving benefit payments after his or her death.

Uniformed (Plans D and X): Same as municipal.

Benefit Offset

Municipal (Plan J):

If the employee collects his or her disability benefit and subsequently becomes employed, the disability benefit will be reduced \$1 for every \$3 earned in outside wages until age 65. This offset no longer applies to non-represented employees and will be removed upon the completion of the current labor agreements for represented employees.

Uniformed (Plans D and X):

Same as municipal, but the earned income offset does not apply to fire employees or police employees granted heroic status.

14. Service-Connected Disability Periodic Adjustment

Eligibility

Municipal (Plan J):

An employee who is receiving a service-connected disability benefit who is totally disabled and does not collect Social Security disability insurance benefits is eligible for a periodic adjustment.

Uniformed (Plans D and X):

Same as municipal, but only applies to police employees.

Benefit Amount

Municipal (Plan J):

The disabled employee's pension will be increased in the eighth year after separation by the percentage raise given in the previous year to active employees in his or her job class. The adjustment will continue each year thereafter until the employee's 65th birthday.

Uniformed (Plans D and X):

Same as municipal.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

15. Ordinary Disability

Eligibility

Municipal (Plan J):

An active employee found by the board to be mentally or physically permanently incapacitated from the further performance of duties due to an accident or illness not caused by the performance of duties is eligible for an immediate ordinary disability benefit after completing 10 years of credited service.

Uniformed (Plans D and X):

Same as municipal, except that fire employees only need five years of credited service and police employees have no service requirement if the disability is permanent and total. Police employees with permanent and partial disability need 10 years of credited service.

Benefit Amount

Municipal (Plan J):

The annual ordinary disability benefit is equal to the benefit determined under the service pension formula using average final compensation and credited service as of the date of disablement. If the employee is eligible for or receiving workers' compensation, no benefit is payable. Such employee may apply for benefits at retirement age.

Uniformed (Plans D and X):

Same as municipal, except police employees that have no service requirement are credited with a minimum of 10 years of credited service. Same as municipal.

Benefit Offset

Municipal (Plan J):

If the employee collects his or her disability benefit and subsequently becomes employed, the disability benefit will be reduced \$1 for every \$2 earned in outside wages until age 55. This offset no longer applies to non-represented employees and will be removed upon the completion of the current labor agreements for represented employees.

Uniformed (Plans D and X):

If the employee collects his or her disability benefit and subsequently becomes employed, the disability benefit will be reduced \$1 for every \$2 earned in outside wages until age 45. The earned income offset does not apply to fire employees. This offset no longer applies to non-represented employees and will be removed upon the completion of the current labor agreements for represented employees.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

16. Survivor Benefit

Municipal (Plan J):

Service pensions, deferred vested benefits, service-connected disability benefits (if employee contributions are left on deposit), and ordinary disability benefits are payable under 4 optional forms. Options 1, 2, and 3 provide benefits actuarially equivalent to a lifetime only pension while Option 4 has no reduction.

Option 1 - A benefit is payable to the employee with the provision that upon death, the beneficiary will receive a lump sum equal to the excess, if any, of the employee's contributions over the sum of the payments received.

Option 2 –A reduced benefit payable to the employee with the provision that 100% of the reduced benefit will be paid to the designated beneficiary for life after the death of the employee.

Option 3 –Same as Option 2 except only 50% of the reduced benefit is continued to the designated beneficiary.

Option 4 - Upon the employee's death, 50% of the benefit will continue to be paid to the surviving spouse for life, provided the employee and spouse were married for two years before retirement and at death. If there is no eligible spouse at the time the employee dies, or the spouse dies before the full amount of the contributions have been returned, 50% of the benefit is continued to dependent children until age 18, or if no dependent children, payments are given to dependent parents for the remainder of their lives. In addition, Option 4 provides for a guaranteed return of employee contributions as described in Option 1 above.

Uniformed (Plans D and X): Same as municipal.

17. Minimum Pension

Municipal (Plan J):

The monthly minimum pension to a pensioner is equal to \$25 multiplied by the number of the pensioner's completed years of credited service, to a 10 year maximum.

Uniformed (Plans D and X):

The monthly minimum pension to pensioners is \$500. The monthly minimum pension to all other pensioners is \$440 providing such pension will increase to \$500 at the time the pensioner reaches age 60.



APPENDIX C SUMMARY OF PLAN PROVISIONS – 1967 PLAN

18. Waiver of Benefit

Municipal (Plan J):

Any employee at service retirement age with less than three but more than one year of credited service, may waive the right to receive a monthly benefit and in lieu thereof, receive a lump sum payment of twice his or her employee contributions without interest.

Uniformed (Plans D and X): Same as municipal.

19. Service-Connected Health Care Benefit

Municipal (Plan J):
Not applicable.

Uniformed (Plans D and X):

If a uniformed employee dies during the performance of duties, a service-connected health care benefit may be payable to the surviving spouse and dependent children. Regular payments will be made of the appropriate cost of maintaining medical, dental, optical, and prescription drug benefits that were in force at the time of the employee's death. Payments to the spouse cease upon remarriage and to dependent children at age 18 (age 22 if full-time student) or, if dependent due to physical or mental infirmity, the duration of the infirmity. The health care benefits are not paid from the pension trust assets.

20. Deferred Retirement Option Plan (DROP)

Municipal (Plan J):

Employees that have ten years of service and reached the minimum retirement age may elect to participate in the DROP. During this time, their accrued benefit will go into a DROP account and will earn interest at a specified rate (4.5% as of July 1, 2006). The benefit is calculated as of the date they entered the DROP. At the end of the DROP, the employees' accrued monthly benefit will commence, plus they will receive the accumulated amount of the accrued benefit paid to the DROP, as well as the interest earned on such benefit.

Uniformed (Plans D and X): Same as municipal.



APPENDIX C SUMMARY OF PLAN PROVISIONS – PLAN 87

1. Participation

Municipal:

Full-time employees participate on their date of employment. Temporary employees participate after completing six months of employment. Participation is limited to employees hired on or after January 8, 1987. Any member of the 1967 Plan may irrevocably elect to participate in Plan 87.

Uniformed (Plans A and B):

Same as municipal.

Elected:

Any City employee on or after January 8, 1987, in any general, municipal, or special election, participates in this Plan.

2. Credited Service

Municipal:

Credited service means the period of employment with the City during which the employee makes contributions to the Retirement System. Certain leaves of absence may also be credited.

Uniformed (Plans A and B):

Same as municipal.

Elected:

Same as municipal.

3. Total Compensation

Municipal:

Total compensation means the base rate of pay, overtime, and longevity payments received during a 12-month period.

Uniformed (Plans A and B):

Total compensation means the base rate of pay, longevity payments, and stress or premium pay (up to 4% of base pay) received during a 12-month period.

Elected:

Total compensation means the base rate of pay and longevity payments received during a 12-month period.



APPENDIX C SUMMARY OF PLAN PROVISIONS – PLAN 87

4. Final Compensation

Municipal:

Final compensation means whichever is greater: annual base rate of pay at the time of termination or the total compensation received during the 12 months immediately preceding termination, including supplementary compensation received under Civil Service Regulation No. 32.

Uniformed (Plans A and B):

Same as municipal.

Elected:

Same as municipal.

5. Average Final Compensation

Municipal:

Average final compensation means the arithmetic average of the total compensation received during the three calendar or anniversary years producing the highest average.

Uniformed (Plans A and B):

Average final compensation means the arithmetic average of the total compensation received during the two calendar or anniversary years producing the highest average.

Elected:

Same as municipal.

6. Employee Contributions

Municipal:

Total employee contributions equal 30% of the gross normal cost for all members in the municipal division. Exempt and non-represented employees hired after January 13, 1999 (and current employees as of January 13, 1999 that elect to do so) will contribute an additional amount to become vested in five years.

Uniformed (Plans A and B):

Total employee contributions equal 5% of total compensation, but not less than 30% or greater than 50% of gross normal cost for members in the uniformed division. Exempt and non-represented employees hired after January 13, 1999 (and current employees as of January 13, 1999 that elect to do so) will contribute an additional amount to become vested in five years.

Elected:

Total employee contributions equal 30% of the gross normal cost for all members in the elected division calculated under the municipal plan plus 100% of the gross normal cost that exceeds the cost for the municipal plan. Employees hired after January 13, 1999 (and current



APPENDIX C SUMMARY OF PLAN PROVISIONS – PLAN 87

employees as of January 13, 1999 that elect to do so) will contribute an additional amount to become vested in the lesser of two full terms or eight years.

7. Service Retirement

Eligibility

Municipal:

Each municipal employee is eligible to retire and receive a service pension at age 60 if he or she has 10 or more years of credited service or, if the employee made additional contributions to become vested in five years, five years of credited service.

Uniformed (Plans A and B):

Each uniformed employee is eligible to retire and receive a service pension upon reaching age 50and 10 or more years of credited service, or, if the employee made additional contributions to become vested in five years, five years of credited service.

Elected:

Each elected official is eligible to retire and receive a service pension at age 55 if he or she has 10 or more years of credited service, or, if the employee made additional contributions to become vested in the lesser or two full terms or eight years, the lesser of two full terms or eight years of credited service.

Benefit Amount

Municipal:

The service pension equals 2.2% of the employee's average final compensation for the first 10 years of credited service, plus 2% of the employee's average final compensation multiplied by years of service over 10, subject to a maximum of 100% of average final compensation.

Uniformed (Plans A and B):

The service pension equals 2.2% of the employee's average final compensation multiplied by years of credited service to a maximum of 20 years, plus 2% of the employee's average final compensation multiplied by years of credited service over 20, subject to a maximum of 100% of average final compensation.

Elected:

The service pension equals 3.5% of the employee's average final compensation multiplied by years of credited service, subject to a maximum of 100% of average final compensation.



APPENDIX C SUMMARY OF PLAN PROVISIONS – PLAN 87

8. Early Retirement

Eligibility

Municipal:

Each municipal employee is eligible to retire and receive a reduced service pension at age 52 if he has 10 or more years of credited service. As an alternative, a member is eligible if he or she has at least 33 years of credited service, regardless of age.

Uniformed (Plans A and B):

Each uniformed employee is eligible to retire and receive a reduced service pension at age 40 if he or she has 10 or more years of credited service. Alternatively, a member is eligible if he has at least 25 years of credited service, regardless of age.

Benefit Amount

Municipal:

The annual amount is calculated the same as service retirement, reduced by 1/2 of 1% for each month the employee is younger than minimum retirement age. Benefits are not reduced if the employee has 33 or more years of credited service.

Uniformed (Plans A and B):

The annual amount is calculated the same as service retirement, reduced by 1/2 of 1% for each month the employee is younger than minimum retirement age. Benefits are not reduced if the employee has 25 or more years of credited service.

Elected:

The annual amount is calculated the same as service retirement, reduced by 1/2 of 1% for each month the employee is younger than minimum retirement age.

9. Deferred Vested Retirement

Eligibility

Municipal:

An employee who terminates employment after completing 10 or more years of credited service or, if the employee made additional contributions to become vested in five years, five years of credited service, is eligible for a deferred vested retirement if his or her contributions have not been withdrawn.

Uniformed (Plans A and B):

Same as municipal.

Elected:

A person terminating employment and who has completed 10 or more years of credited service, or, if the employee made additional contributions to become vested in the lesser of



APPENDIX C SUMMARY OF PLAN PROVISIONS – PLAN 87

two full terms or eight years, two full terms or eight years of credited service is eligible for a deferred vested retirement benefit provided he or she has not withdrawn contributions.

Benefit

Municipal:

The annual deferred vested benefit is determined the same as service pensions, based on average final compensation and credited service at termination. This benefit begins at the service retirement date. If a member dies before the deferred vested benefit begins, an ordinary death benefit is payable (see Ordinary Death below). As an alternative, the person terminating employment may request at any time before benefits begin a return of employee contributions (without interest) instead of the deferred vested benefit.

Uniformed (Plans A and B): Same as municipal.

Elected:

Same as municipal.

10. Withdrawal Benefit

Eligibility

Municipal:

Each terminating employee who has completed fewer than 10 years of credited service (or, if the employee made additional contributions to become vested in five years, fewer than five years of credited service) will receive a withdrawal benefit equal to employee contributions (without interest).

Uniformed (Plans A and B):

Same as municipal.

Elected:

Each terminating employee who completed fewer than 10 years of credited service will receive a withdrawal benefit equal to employee contributions (without interest).

11. Service Connected Death

Eligibility

Municipal:

The beneficiary of each active employee who dies solely from the performance of duties of the employee's position with the City is eligible for an immediate death benefit.

Uniformed (Plans A and B):

Same as municipal.



APPENDIX C SUMMARY OF PLAN PROVISIONS – PLAN 87

Elected:

Same as municipal.

Benefit Amount

Municipal:

The death benefit equals the sum of the total employee contributions paid to the Retirement System (without interest), plus a yearly payment of 60% of the employee's final compensation reduced by any death benefits payable under the Workers' Compensation Act. This benefit is payable to the spouse until his or her death or remarriage, whichever occurs first. Dependent children are entitled to an additional 10% of final compensation yearly payment for each dependent child (up to two children) until the child reaches 18. This total benefit shall not exceed 80% of final compensation.

If there is no spouse, or if the spouse dies or remarries, each dependent child (up to three children) is eligible for a yearly payment of 25% of final compensation until the child reaches age 18. If there is no spouse or dependent children, each dependent parent is entitled to a15% of final compensation yearly payment for life.

Uniformed (Plans A and B): Same as municipal.

Elected:

Same as municipal.

12. Ordinary Death

Eligibility

Municipal:

The beneficiary of an active employee (or a terminated vested employee who did not withdraw his employee contributions) who dies after completing 10 years of credited service (or five years of credited service if additional contributions were made) or who has reached age 60 is eligible for an immediate death benefit equal to an annual pension or a lump sum payment, whichever the beneficiary chooses.

The beneficiary of an active employee who dies before completing 10 years of credited service (or five years of credited service if additional contributions were made) or reaching age 60 is eligible for a lump sum payment.

The beneficiary may be any relative by blood or marriage.

Uniformed (Plans A and B):

The beneficiary of any employee who dies while actively employed (or a terminated vested employee who did not withdraw employee contributions) is eligible for a death benefit equal to an annual pension or a lump sum payment, whichever the beneficiary chooses.



APPENDIX C SUMMARY OF PLAN PROVISIONS – PLAN 87

The beneficiary may be any relative by blood or marriage.

Elected:

The beneficiary of an active employee (or a terminated vested employee who did not withdraw contributions) who dies after completing 10 years of credited service or reaching age 55 is eligible for an immediate death benefit equal to an annual pension or a lump sum payment, whichever the beneficiary chooses.

The beneficiary of an active employee who dies before completing 10 years of credited service or reaching age 55 is eligible for a lump sum payment.

The beneficiary may be any relative by blood or marriage.

Annual Pension

Municipal:

The annual ordinary death pension, payable for life, is equal to the regular service pension the employee would have received had he or she been eligible to retire on the day before death and had elected Option 2, joint and 100% contingent annuitant (see Survivor Benefits below).

Uniformed (Plans A and B):

The annual ordinary death pension, payable for life, is equal to the regular service pension the employee would have received (based on a minimum of 10 years of service) had he been eligible to retire on the day before death and had elected Option 2, joint and 100% contingent annuitant (see Survivor Benefits below).

Elected:

Same as municipal.

Lump Sum Payment

Municipal:

The lump sum payment is equal to the deceased employee's average final compensation multiplied by years of credited service (not to exceed the service in the denominator) and divided by the number of years of credited service needed to become vested, plus the deceased employee's contribution to the Retirement System (without interest) minus the total amount of the deceased employee's life insurance which was paid by the City.

Uniformed (Plans A and B):

Same as municipal.

Elected:

Same as municipal.



APPENDIX C SUMMARY OF PLAN PROVISIONS – PLAN 87

13. Service-Connected Disability

Eligibility

Municipal:

An active employee found by the Board of Pensions and Retirement to be mentally or physically permanently incapacitated from any further performance of duties due solely to the result of the performance of duties is eligible for an immediate service-connected disability pension. The application for benefit must be made within one year after termination of employment.

Uniformed (Plans A and B): Same as municipal.

Elected:

An active employee found by the Board of Pensions and Retirement to be mentally or physically permanently incapacitated from any further performance of duties due solely to the result of the performance of duties is eligible for an immediate service-connected disability pension.

Benefit Amount

Municipal:

The service-connected disability benefit is equal to the employee's contributions to the Retirement System, plus a yearly benefit of 70% of the employee's final compensation, reduced by any disability benefits payable under the Worker's Compensation Act.

If he or she withdraws contributions, the benefit is payable for his or her lifetime only.

If the employee leaves employee contributions with the Retirement System, he or she may choose a survivor benefit option (see Survivor benefit below) and the beneficiary will continue receiving benefit payments after his or her death.

Uniformed (Plans A and B) Same as municipal.

Elected:

Same as municipal.

Benefit Offset

Municipal:

If the employee collects his or her disability benefit and subsequently becomes employed, the disability benefit will be reduced \$1 for every \$3 earned in outside wages until age 65. This offset no longer applies to non-represented employees and will be removed upon the completion of the current labor agreements for represented employees.



APPENDIX C SUMMARY OF PLAN PROVISIONS – PLAN 87

Uniformed (Plans A and B):

Same as municipal, but the earned income offset does not apply to fire employees, or police employees granted heroic status.

14. Service-Connected Disability Periodic Adjustment

Eligibility

Municipal:

An employee who is receiving a service-connected disability benefit who is totally disabled and does not collect Social Security disability insurance benefits is eligible for a periodic adjustment.

Uniformed (Plans A and B):

Same as municipal, but only applies to police employees.

Elected:

Same as municipal.

Benefit Amount

Municipal:

The disabled employee's pension will be increased in the eighth year after separation by the percentage raise given in the previous year to active employees in his or her job class. The adjustment will continue each year until the employee's 65th birthday.

Uniformed (Plans A and B):

Same as municipal.

Elected:

Same as municipal.

15. Ordinary Disability

Eligibility

Municipal:

An active employee found by the Board to be mentally or physically permanently incapacitated from the further performance of duties due to an accident or illness not caused by the performance of duties is eligible for an immediate ordinary disability benefit provided he or she has at least 10 years of credited service (or five years of credited service, if additional contributions were made). The application for benefits must be made within one year after termination.

Uniformed (Plans A and B):

Same as municipal, except that fire employees only need five years of credited service and police employees have no service requirement if the disability is permanent and total. Police



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employees with permanent and partial disability need 10 years of credited service (or five years of credited service, if additional contributions were made).

Elected:

An active employee found by the Board to be mentally or physically permanently incapacitated from the further performance of duties due to an accident or illness not caused by the performance of duties is eligible for an immediate ordinary disability benefit provided he or she has completed at least 10 years of credited service, or 8 years if additional contributions were made.

Benefit Amount

Municipal:

The annual ordinary disability benefit is equal to the benefit determined under the service pension formula using average final compensation and credited service as of the date of disablement.

If the employee is eligible for or receiving workers compensation, no benefit is payable. Such employee may apply for benefits at retirement age.

Uniformed (Plans A and B):

Same as municipal, except each eligible employee is automatically credited with a minimum of 10 years of service to calculate the annual benefit.

Elected:

The annual ordinary disability benefit is equal to the benefit determined under the service pension formula using average final compensation and credited service as of the date of disablement.

Benefit Offset

Municipal:

If the employee collects his or her disability benefit and subsequently becomes employed, the disability benefit will be reduced \$1 for every \$2 earned in outside wages until age 60. This offset no longer applies to non-represented employees and will be removed upon the completion of the current labor agreements for represented employees.

Uniformed (Plans A and B):

If the employee collects his or her disability benefit and subsequently becomes employed, the disability benefit will be reduced \$1 for every \$2 earned in outside wages until age 50. The earned income offset does not apply to fire employees. This offset no longer applies to non-represented employees and will be removed upon the completion of the current labor agreements for represented employees.



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Elected:

If the employee collects his or her disability benefit and subsequently becomes employed, their disability benefits will be reduced \$1 for every \$2 earned in outside wages. The offset will continue until age 55.

16. Survivor Benefits

Eligibility

Municipal:

Service pensions, deferred vested benefits, service-connected disability benefits, and ordinary disability benefits are payable under three optional forms. Options 2 and 3 provide benefits actuarially equivalent to a lifetime only pension while Option 1 has no reduction.

Option 1 - A benefit is payable to the employee providing on his death, the beneficiary will receive a lump sum equal to the excess, if any, of the employee's contributions over the sum of the payments received.

Option 2 - A reduced benefit payable to the employee with the provision that 100% of the reduced benefit will continue to be paid to the designated beneficiary for life after the death of the employee.

Option 3 - The same as Option 2 except only 50% of the reduced benefit is continued to the designated beneficiary.

Uniformed (Plans A and B): Same as municipal.

Elected:

Same as municipal.

17. Service-Connected Health Care Benefit

Eligibility

Municipal:

Not applicable.

Uniformed (Plans A and B):

In the event of the death of a uniformed employee during the performance of his or her duties, a service-connected health care benefit may be payable to the surviving spouse and dependent children. Regular payments will be made of the appropriate cost of maintaining medical, dental, optical and pharmaceutical prescription benefits in force at the time of the employee's death. Payments to the spouse cease upon remarriage and to dependent children at age 18 (age 22 if a full-time student) or, if dependent due to physical or mental infirmity, the duration of the infirmity. The health care benefits are not paid from the pension trust assets.



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Elected:

Not applicable.

18. Deferred Retirement Option Plan (DROP)

Eligibility

Municipal:

Employees that have ten years of service and reached the minimum retirement age may elect to participate in the DROP. During this time, their accrued benefit will go into a DROP account and will earn interest at a specified rate (4.5% as of July 1, 2007). The benefit is calculated as of the date they entered the DROP. At the end of the DROP, the employees' accrued monthly benefit will commence, plus they will receive the accumulated amount of the accrued benefit paid to the DROP, as well as the interest earned on such benefit.

Uniformed (Plans A and B): Same as municipal.

Elected:

Same as municipal.



APPENDIX D GLOSSARY OF TERMS

1. Actuarial Liability

The Actuarial Liability is the difference between the present value of all future system benefits and the present value of total future normal costs. This is also referred to by some actuaries as the "accrued liability" or "actuarial liability."

2. Actuarial Assumptions

Estimates of future experience with respect to rates of mortality, disability, turnover, retirement rate or rates of investment income and salary increases. Actuarial assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.

3. Accrued Service

Service credited under the System which was rendered before the date of the actuarial valuation.

4. Actuarial Equivalent

A single amount or series of amounts of equal actuarial value to another single amount or series of amounts, computed on the basis of appropriate actuarial assumptions.

5. Actuarial Funding Method

A mathematical budgeting procedure for allocating the dollar amount of the actuarial present value of a retirement system benefit between future normal cost and actuarial accrued liability. Sometimes referred to as the "actuarial funding method."

6. Actuarial Gain (Loss)

The difference between actual experience and actuarial assumption anticipated experience during the period between two actuarial valuation dates.

7. Actuarial Present Value

The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest, and by probabilities of payment.



APPENDIX D GLOSSARY OF TERMS

8. Amortization

Paying off an interest-discounted amount with periodic payments of interest and principal—as opposed to paying off with a lump sum payment.

9. Annual Required Contribution (ARC) under GASB 25

The Governmental Accounting Standards Board (GASB) Statement No. 25 defines the Plan Sponsor's "Annual Required Contribution" (ARC) that must be disclosed annually and is defined in accordance with the City's Funding Policy.

10. Normal Cost

The actuarial present value of retirement system benefits allocated to the current year by the actuarial funding method.

11. Unfunded Actuarial Liability (UAL)

The difference between actuarial liability and valuation assets. Sometimes referred to as "unfunded actuarial accrued liability."

Most retirement systems have unfunded actuarial liabilities. They typically arise each time new benefits are added and each time experience gains/losses are realized.

The existence of unfunded actuarial accrued liability is not in itself an indicator of poor funding, Also, unfunded actuarial liabilities do not represent a debt that is payable today. What is important is the ability of the plan sponsor to contribute the annual amortized cost to fund down the unfunded actuarial liability and the trend in unfunded actuarial liability amount

