

BURLINGTON EMPLOYEES' RETIREMENT SYSTEM

ACTUARIAL VALUATION REPORT

JUNE 30, 2017







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Executive Summary

| | June 30, 2017 | | June 30, 2016 | | | |
|---|---------------|-------------|---------------|-------------|-------------|-------------|
| | Class A | Class B | Total | Class A | Class B | Total |
| Number of members | | | | | | |
| Active employees | 179 | 666 | 845 | 174 | 680 | 854 |
| Terminated vested members | 15 | 356 | 371 | 15 | 361 | 376 |
| Vested in employee contributions only | 9 | 115 | 124 | 6 | 74 | 80 |
| Retired, disabled and beneficiaries | 178 | 496 | 674 | 177 | 483 | 660 |
| Total | 381 | 1,633 | 2,014 | 372 | 1,598 | 1,970 |
| Covered employee payroll | 10,903,872 | 34,746,500 | 45,650,372 | 11,016,208 | 37,091,509 | 48,107,717 |
| Average plan salary | 60,915 | 52,172 | 54,024 | 63,312 | 54,546 | 56,332 |
| Actuarial present value of future benefits | 134,863,320 | 161,548,365 | 296,411,685 | N/A | N/A | N/A |
| Actuarial accrued liability | 115,558,431 | 136,852,540 | 252,410,971 | 110,320,376 | 135,622,903 | 245,943,279 |
| Plan assets | | | | | | |
| Market value of assets | 75,014,835 | 100,456,464 | 175,471,299 | 67,913,439 | 88,875,934 | 156,789,373 |
| Actuarial value of assets | 78,582,438 | 105,234,035 | 183,816,473 | 76,124,499 | 99,621,460 | 175,745,959 |
| Unfunded accrued liability | 36,975,993 | 31,618,505 | 68,594,498 | 34,195,877 | 36,001,443 | 70,197,320 |
| Funded ratio | 68.0% | 76.9% | 72.8% | 69.0% | 73.5% | 71.5% |
| Actuarially determined employer contribution (ADEC) | | | | | | |
| Fiscal year ending | 2019 | 2019 | 2019 | 2018 | 2018 | 2018 |
| ADEC | 4,805,619 | 5,378,047 | 10,183,666 | 4,355,137 | 5,621,518 | 9,976,655 |



Valuation Results and Highlights

Purpose of the Valuation

The purpose of the valuation is to develop the Actuarially Determined Employer Contribution (ADEC).

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

Ultimate cost = Benefits Paid + Expenses Incurred – Investment Return – Employee Contributions

The actuarial cost method distributes this ultimate cost over the working lifetime of current plan participants. By means of this budgeting process, costs are allocated to both past and future years, and a cost is assigned to the current year. The current year's allocated cost, or normal cost, is the building block upon which the actuarially determined employer contribution is developed. The June 30, 2017 valuation produces the contribution for the fiscal year ending 2019.

Information Available in the Valuation Report

The Executive Summary is intended to emphasize the notable results of the valuation from the perspective of the Plan Sponsor. Supporting technical detail is documented in Results of the Valuation, Supporting Exhibits and Description of Actuarial Methods and Assumptions. A concise summary of the principal provisions of the Plan is outlined in Summary of Plan Provisions.

Changes Reflected in the Valuation

There were some changes to the vesting provisions for certain groups. The impact of these changes was an increase in unfunded liability and ADEC of approximately \$335,000 and \$145,000, respectively. Please see the Summary of Plan Provisions section for more details.

Cash Contribution for Fiscal Year Ending 2019

| | Class A | Class B |
|---------------------------|-------------|-----------------|
| Normal Contribution Rate | 10.7% | 6.0% |
| Past Service Contribution | \$3,561,498 | \$3,116,784 |
| | | |
| The City cost is: | 2 | 019 Fiscal Year |
| Class A | | \$4,805,619 |
| Class B | | 5,378,047 |
| Total | | \$10,183,666 |

Liability Experience During Period Under Review

The plan experienced a net actuarial gain on liabilities of approximately \$4,721,000 since the prior valuation. There were a number of data adjustments made since the prior valuation, which lead to a gain of approximately \$4,626,000 in liabilities. The balance of the liability gain is due mainly to the combined gains from mortality, retirements, turnover, and salary increases. Please see page 10 for additional details.



Asset Experience During Period Under Review

| | 2017 Fiscal Year |
|-----------------------|------------------|
| Market Value Basis | 14.1% |
| Actuarial Value Basis | 6.5% |

The Actuarial Value of assets, rather than the Market Value, is used to determine plan contributions. The Actuarial Value spreads the asset volatility over 10 years, thereby smoothing out fluctuations that are inherent in the Market Value.



Certification

This report presents the results of the June 30, 2017 Actuarial Valuation for Burlington Employees' Retirement System (the Plan) for the purpose of estimating the funded status of the Plan and determining the Actuarially Determined Employer Contribution (ADEC) for the fiscal year ending June 30, 2019. This report may not be appropriate for any other purpose.

The valuation has been performed in accordance with generally accepted actuarial principles and practices. It is intended to comply with all applicable Actuarial Standards of Practice.

As required under Part II, Section 24-61 of the Burlington Code of Ordinances, experience studies are performed at least once in every five-year period. This report contains the full set of assumptions and methods used in the current valuation. The assumptions were based on a recent experience study covering the period July 1, 2007 to June 30, 2012. The assumptions were adopted by the Board on the basis of the study.

In preparing this valuation, I have relied on employee data provided by the Plan Sponsor, and on asset and contribution information provided by the Trustee. I have audited neither the employee data nor the financial information, although I have reviewed them for reasonableness.

The results in this valuation report are based on the Plan as summarized in the *Summary of Plan Provisions* section of this report and the actuarial assumptions and methods detailed in the *Description of Actuarial Methods and Assumptions* section of this report.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as, but not limited to, the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of this report, an analysis of the potential range of such future measurements has not been performed.

I have no relationship with the employer or the Plan that would impair, or appear to impair, my objectivity in performing the work presented in this report. I am a member of the American Academy of Actuaries and meet its Qualification Standards to render the actuarial opinion contained herein.

Steve A. Lemanski, FSA, FCA, MAAA Enrolled Actuary 17-05506

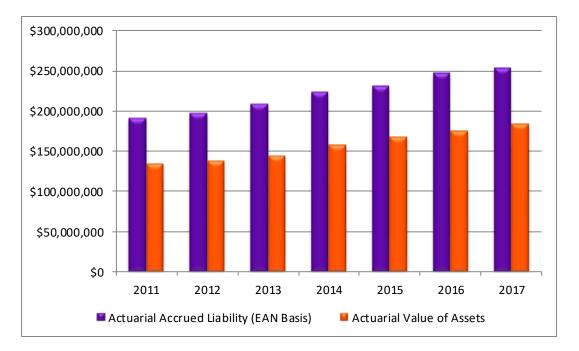
July 13, 2018



Development of Unfunded Accrued Liability and Funded Ratio

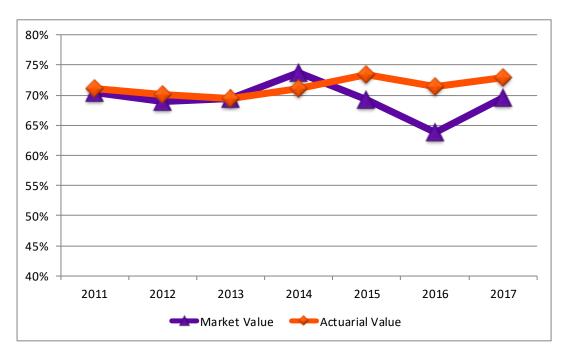
| | June 30, 2017 | | | June 30, 2017 June 30, 2016 | | | |
|--|---------------|--------------|---------------|-----------------------------|--------------|---------------|--|
| | Class A | Class B | Total | Class A | Class B | Total | |
| Actuarial accrued liability for inactive members | | | | | | | |
| Retired, disabled and beneficiaries | \$79,082,146 | \$73,672,702 | \$152,754,848 | N/A | N/A | N/A | |
| Terminated vested members | 939,222 | 7,198,353 | 8,137,575 | N/A | N/A | N/A | |
| Due refund of employee contributions only | 100,380 | 285,830 | 386,210 | N/A | N/A | N/A | |
| Total | 80,121,748 | 81,156,885 | 161,278,633 | \$78,076,884 | \$80,219,891 | \$158,296,775 | |
| Actuarial accrued liability for active employees | 35,436,683 | 55,695,655 | 91,132,338 | 32,243,492 | 55,403,012 | 87,646,504 | |
| Total actuarial accrued liability | 115,558,431 | 136,852,540 | 252,410,971 | 110,320,376 | 135,622,903 | 245,943,279 | |
| Actuarial value of assets | 78,582,438 | 105,234,035 | 183,816,473 | 76,124,499 | 99,621,460 | 175,745,959 | |
| Unfunded accrued liability | 36,975,993 | 31,618,505 | 68,594,498 | 34,195,877 | 36,001,443 | 70,197,320 | |
| Funded ratio | 68.0% | 76.9% | 72.8% | 69.0% | 73.5% | 71.5% | |





Actuarial Accrued Liability vs. Actuarial Value of Assets

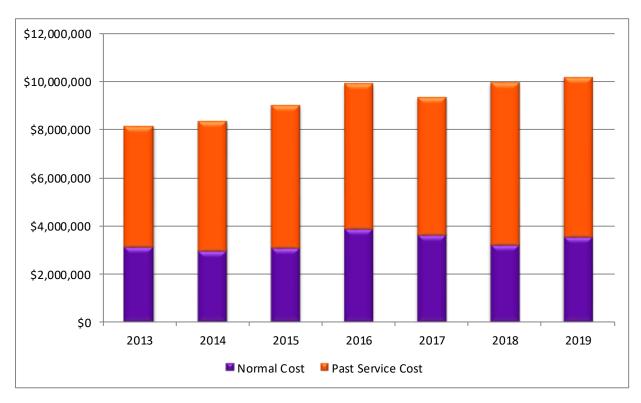
Funded Ratio





Determination of Normal Cost and Actuarially Determined Employer Contribution

| | June 30, 2017 | | June 30, | 2016 |
|---|---------------|-----------------------|------------|-----------------------|
| | Cost | Percent of payroll | Cost | Percent of payroll |
| Gross normal cost | \$6,200,159 | 13.1% | N/A | N/A |
| Estimated employee contributions | (2,813,315) | -5.9% | N/A | N/A |
| City's normal cost | 3,386,844 | 7.1% | 3,054,953 | 5.9% |
| Amortization of unfunded accrued liability | 6,678,282 | 14.1% | 6,814,779 | 13.2% |
| Contribution before adjustment as of the valuation date | 10,065,126 | 21.2% | 9,869,732 | 19.1% |
| Estimated valuation year payroll for actives not yet at 100% assumed retirement age | 47,419,400 | | 51,795,700 | |
| Fiscal year ending | 2019 | | 2018 | |
| Adjustment for interest and inflation | 118,540 | | 106,923 | |
| Actuarially determined employer contribution | 10,183,666 | | 9,976,655 | |



Actuarially Determined Employer Contribution

Actuarially Determined Employer Contribution per Group

| | Class A | Class B BED | Class B School | Class B Other | Class B | Total |
|---|-------------|-------------|----------------|---------------|-------------|-------------|
| Gross normal cost | \$2,435,453 | \$798,644 | \$936,366 | \$2,029,696 | \$3,764,706 | \$6,200,159 |
| Estimated employee contributions | (1,233,404) | (407,016) | (321,304) | (851,591) | (1,579,911) | (2,813,315) |
| City's normal cost | 1,202,049 | 391,628 | 615,062 | 1,178,105 | 2,184,795 | 3,386,844 |
| Actuarial accrued liability | 115,558,431 | 46,911,562 | 24,744,888 | 65,196,090 | 136,852,540 | 252,410,971 |
| Actuarial value of assets | 78,582,438 | 36,073,082 | 19,027,812 | 50,133,141 | 105,234,035 | 183,816,473 |
| Unfunded accrued liability | 36,975,993 | 10,838,480 | 5,717,076 | 15,062,949 | 31,618,505 | 68,594,498 |
| Amortization of unfunded accrued liability | 3,561,498 | 1,068,400 | 563,559 | 1,484,825 | 3,116,784 | 6,678,282 |
| Contribution before adjustment as of the valuation date | 4,763,547 | 1,460,028 | 1,178,621 | 2,662,930 | 5,301,579 | 10,065,126 |
| Estimated valuation year payroll for actives not yet at 100% assumed retirement age | 11,212,762 | 8,274,687 | 7,651,713 | 20,280,238 | 36,206,638 | 47,419,400 |
| City's normal cost as a percentage of payroll | 10.7% | 4.7% | 8.0% | 5.8% | 6.0% | 7.1% |
| Contribution as a percentage of payroll | 42.5% | 17.6% | 15.4% | 13.1% | 14.6% | 21.2% |
| Fiscal year ending June 30, 2019 | | | | | | |
| Adjustment for interest and inflation | 42,072 | 13,708 | 21,527 | 41,233 | 76,468 | 118,540 |
| Actuarially determined employer contribution | 4,805,619 | 1,473,736 | 1,200,148 | 2,704,163 | 5,378,047 | 10,183,666 |

Determination of Actuarial Gain/Loss

The Actuarial Gain/Loss is the difference between the expected unfunded accrued liability and the actual unfunded accrued liability, without regard to any changes in actuarial methods, actuarial assumptions or plan provisions. This can also be referred to an Experience Gain/Loss, since it reflects the difference between what was expected and what was actually experienced.

| Actuarial Gain / Loss | | |
|--|--------------|------------|
| Expected unfunded accrued liability June 30, 2017 | | |
| Expected unfunded accrued liability June 30, 2017 | | |
| Unfunded accrued liability June 30, 2016 | 70,197,320 | |
| Gross normal cost June 30, 2016* | 6,038,315 | |
| City and employee contributions for 2016-2017 | (11,931,921) | |
| Interest at 8.00% to June 30, 2017 | 5,637,290 | |
| Expected unfunded accrued liability June 30, 2017 | 69,941,004 | |
| Actuarial (gain) / loss June 30, 2017 | (1,680,991) | |
| Actual unfunded accrued liability June 30, 2017, prior to plan | | |
| provision, assumption and method changes | | 68,260,013 |
| Sources of (gain) / loss | | |
| Assets | 3,041,000 | |
| Salary increases | (43,000) | |
| Retiree mortality | (252,000) | |
| Turnover, disability and retirements | (521,000) | |
| New entrants | 78,000 | |
| Data adjustments | (4,626,000) | |
| Other experience | 642,000 | |
| Total (gain) / loss (rounded to nearest \$1,000) | (1,681,000) | |
| Plan provision changes since prior valuation | _ | 334,485 |
| Actual unfunded accrued liability June 30, 2017, after plan | | |
| provision, assumption and method changes | | 68,594,498 |

*This amount was developed from H&H's liability match of the prior actuary because it was not shown in the prior valuation report.

Development of Asset Values

| Summary of I | Summary of Fund Activity | | | | |
|--|--------------------------|-----------------|--|--|--|
| | Market Value | Actuarial Value | | | |
| 1. Beginning value of assets June 30, 2016 | | | | | |
| Trust assets | \$156,789,373 | \$175,745,959 | | | |
| 2. Contributions | | | | | |
| City contributions during year | 9,219,098 | 9,219,098 | | | |
| Employee contributions during year | 2,712,823 | 2,712,823 | | | |
| Total for plan year | 11,931,921 | 11,931,921 | | | |
| 3. Disbursements | | | | | |
| Benefit payments during year | 14,770,644 | 14,770,644 | | | |
| Administrative expenses during year | 361,811 | 361,811 | | | |
| Total for plan year | 15,132,455 | 15,132,455 | | | |
| 4. Net investment return | | | | | |
| Interest and dividends | 2,577,351 | N/A | | | |
| Realized and unrealized gain / (loss) | 19,581,122 | N/A | | | |
| Expected return | N/A | 12,419,344 | | | |
| Recognized gain / (loss) | N/A | (1,148,296) | | | |
| Required adjustment due to corridor | N/A | 0 | | | |
| Reversal of prior year required adjustment | N/A | 0 | | | |
| Investment-related expenses | (276,013) | N/A | | | |
| Total for plan year | 21,882,460 | 11,271,048 | | | |
| 5. Ending value of assets June 30, 2017 | | | | | |
| Trust assets: (1) + (2) - (3) + (4) | 175,471,299 | 183,816,473 | | | |
| 6. Approximate rate of return | 14.1% | 6.5% | | | |

| Relationship of Actuarial Value to Market Value | |
|--|---------------|
| 1. Market value 6/30/2017 | \$175,471,299 |
| 2. Gain / (loss) not recognized in actuarial value 6/30/2017 | (8,345,174) |
| 3. Preliminary actuarial value 6/30/2017: (1) - (2) | 183,816,473 |
| 4. Preliminary actuarial value as a percentage of market value: (3) \div (1) | 104.8% |
| 5. Gain / (loss) recognized for corridor minimum / maximum | N/A |
| 6. Actuarial value 6/30/2017 after corridor minimum / maximum: (3) + (5) | 183,816,473 |
| 7. Actuarial value as a percentage of market value: (6) \div (1) | 104.8% |

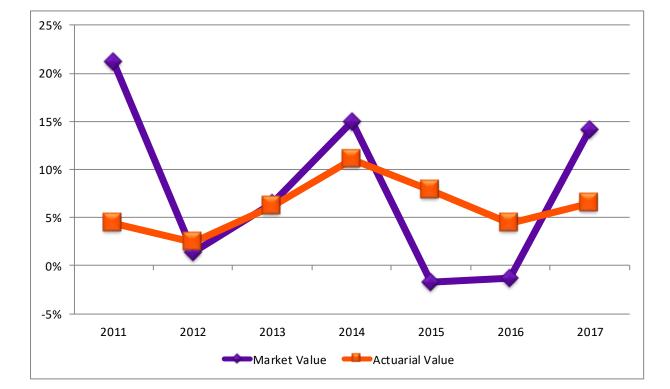
| Development of Market Value Gain / Loss for 2016-2017 Plan Year | | | | | |
|--|---------------|--|--|--|--|
| 1. Market value 6/30/2016 | \$156,789,373 | | | | |
| 2. City contributions | 9,219,098 | | | | |
| 3. Employee contributions | 2,712,823 | | | | |
| 4. Benefit payments | 14,770,644 | | | | |
| 5. Administrative expenses | 361,811 | | | | |
| 6. Expected return at 8.00% | 12,419,344 | | | | |
| 7. Expected value 6/30/2017: (1) + (2) + (3) - (4) - (5) + (6) | 166,008,183 | | | | |
| 8. Market value 6/30/2017 | 175,471,299 | | | | |
| 9. Market value gain / (loss) for 2016-2017 plan year: (8) - (7) | 9,463,116 | | | | |

| Recognition of Gain / Loss in Actuarial Value | | | | | | | |
|---|----------------------|---|---|--|--|--|--|
| Year | (a) Gain / (loss) | (b) Total recognized as of 6/30/2016 | (c) Recognized in current year: 10% of (a) | (d) Total recognized as of 6/30/2017: (b) + (c) | (e) Not recognized as of 6/30/2017: (a) - (d) | | |
| 2012-2013 | (\$498,233) | (\$199,293) | (\$49,823) | (\$249,116) | (\$249,117) | | |
| 2013-2014 | 8,081,381 | 2,424,414 | 808,138 | 3,232,552 | 4,848,829 | | |
| 2014-2015 | (13,616,950) | (2,723,390) | (1,361,695) | (4,085,085) | (9,531,865) | | |
| 2015-2016 | (14,912,281) | (1,491,228) | (1,491,228) | (2,982,456) | (11,929,825) | | |
| 2016-2017 | 9,463,116 | 0 | 946,312 | 946,312 | 8,516,804 | | |
| Total | | | (1,148,296) | | (8,345,174) | | |

| Rate of Return on Market Value of Assets | | | | | |
|--|--------|-----------------|------------------|----------|--|
| Period Ending | Avera | age Annual Effe | ective Rate of R | leturn | |
| June 30 | 1 Year | 3 Years | 5 Years | 10 Years | |
| 2008 | -7.3% | 6.2% | N/A | N/A | |
| 2009 | -19.6% | -4.4% | 0.6% | N/A | |
| 2010 | 18.6% | -4.0% | 2.7% | N/A | |
| 2011 | 21.2% | 4.9% | 4.7% | N/A | |
| 2012 | 1.4% | 13.4% | 1.7% | N/A | |
| 2013 | 6.5% | 9.4% | 4.5% | N/A | |
| 2014 | 15.0% | 7.5% | 12.3% | 6.3% | |
| 2015 | -1.7% | 6.4% | 8.2% | 5.4% | |
| 2016 | -1.3% | 3.7% | 3.8% | 4.2% | |
| 2017 | 14.1% | 3.4% | 6.3% | 3.9% | |

| Ra | Rate of Return on Actuarial Value of Assets | | | | | | |
|---------------|---|---|---------|----------|--|--|--|
| Period Ending | Avera | Average Annual Effective Rate of Return | | | | | |
| June 30 | 1 Year | 3 Years | 5 Years | 10 Years | | | |
| 2008 | 7.7% | 7.5% | N/A | N/A | | | |
| 2009 | 0.9% | 6.2% | 4.6% | N/A | | | |
| 2010 | 1.2% | 3.2% | 4.9% | N/A | | | |
| 2011 | 4.4% | 2.2% | 4.8% | N/A | | | |
| 2012 | 2.4% | 2.7% | 3.3% | N/A | | | |
| 2013 | 6.2% | 4.3% | 3.0% | N/A | | | |
| 2014 | 11.0% | 6.5% | 5.0% | 4.8% | | | |
| 2015 | 7.8% | 8.3% | 6.3% | 5.6% | | | |
| 2016 | 4.4% | 7.7% | 6.3% | 5.6% | | | |
| 2017 | 6.5% | 6.2% | 7.2% | 5.2% | | | |





Actual Rate of Return on Assets



Amortization of Unfunded Liability

| | Schedule of Amortization Bases - Total | | | | | | |
|--------------|--|--------------------|-----------------------------|--------------------|--|--|--|
| | Date established | Original amount | Amortization installment | Years remaining | Present value of remaining installments as of June 30, 2017 | | |
| Initial base | June 30, 2004 | \$10,020,499 | \$905,446 | 17 | \$8,485,735 | | |
| 2005 base | June 30, 2005 | 13,325,808 | 1,287,027 | 18 | 12,360,092 | | |
| 2006 base | June 30, 2006 | 7,669,440 | 736,717 | 19 | 7,233,195 | | |
| 2007 base | June 30, 2007 | (2,444,427) | (234,503) | 20 | (2,348,965) | | |
| 2008 base | June 30, 2008 | (2,492,739) | (239,137) | 21 | (2,439,383) | | |
| 2009 base | June 30, 2009 | 12,784,050 | 1,226,421 | 22 | 12,719,278 | | |
| 2010 base | June 30, 2010 | 8,547,645 | 820,006 | 23 | 8,633,648 | | |
| 2011 base | June 30, 2011 | 6,255,018 | 590,385 | 24 | 6,302,221 | | |
| 2012 base | June 30, 2012 | 3,602,242 | 345,576 | 25 | 3,735,671 | | |
| 2013 base | June 30, 2013 | 5,490,961 | 517,174 | 26 | 5,655,387 | | |
| 2014 base | June 30, 2014 | 1,295,623 | 124,293 | 27 | 1,373,582 | | |
| 2015 base | June 30, 2015 | (2,956,424) | (283,620) | 28 | (3,164,753) | | |
| 2016 base | June 30, 2016 | 10,621,866 | 1,018,994 | 29 | 11,471,615 | | |
| 2017 base | June 30, 2017 | (1,422,825) | (136,497) | 30 | (1,422,825) | | |
| Total | | | 6,678,282 | | 68,594,498 | | |

| Schedule of Amortization Bases - Class A | | | | | | |
|--|---------------------|--------------------|-----------------------------|--------------------|--|--|
| | Date established | Original amount | Amortization installment | Years remaining | Present value of remaining installments as of June 30, 2017 | |
| Initial base | June 30, 2004 | \$3,698,048 | \$333,297 | 17 | \$3,123,623 | |
| 2005 base | June 30, 2005 | 6,655,535 | 638,489 | 18 | 6,131,797 | |
| 2006 base | June 30, 2006 | 2,588,959 | 248,369 | 19 | 2,438,519 | |
| 2007 base | June 30, 2007 | (1,715,997) | (164,622) | 20 | (1,648,982) | |
| 2008 base | June 30, 2008 | 713,490 | 68,448 | 21 | 698,216 | |
| 2009 base | June 30, 2009 | 3,308,275 | 317,375 | 22 | 3,291,512 | |
| 2010 base | June 30, 2010 | 3,969,991 | 380,855 | 23 | 4,009,935 | |
| 2011 base | June 30, 2011 | 3,564,353 | 337,420 | 24 | 3,601,877 | |
| 2012 base | June 30, 2012 | 2,191,929 | 210,279 | 25 | 2,273,118 | |
| 2013 base | June 30, 2013 | 2,337,776 | 214,678 | 26 | 2,347,539 | |
| 2014 base | June 30, 2014 | 2,892,368 | 277,475 | 27 | 3,066,403 | |
| 2015 base | June 30, 2015 | (50,538) | (4,848) | 28 | (54,099) | |
| 2016 base | June 30, 2016 | 4,439,699 | 425,916 | 29 | 4,794,875 | |
| 2017 base | June 30, 2017 | 2,901,660 | 278,367 | 30 | 2,901,660 | |
| Total | | | 3,561,498 | | 36,975,993 | |

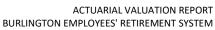
| Schedule of Amortization Bases - Class B | | | | | | |
|--|---------------------|--------------------|-----------------------------|--------------------|--|--|
| | Date established | Original amount | Amortization installment | Years remaining | Present value of remaining installments as of June 30, 2017 | |
| Initial base | June 30, 2004 | \$6,322,451 | \$572,149 | 17 | \$5,362,112 | |
| 2005 base | June 30, 2005 | 6,670,273 | 648,538 | 18 | 6,228,295 | |
| 2006 base | June 30, 2006 | 5,080,481 | 488,348 | 19 | 4,794,676 | |
| 2007 base | June 30, 2007 | (728,430) | (69,881) | 20 | (699,983) | |
| 2008 base | June 30, 2008 | (3,206,229) | (307,585) | 21 | (3,137,599) | |
| 2009 base | June 30, 2009 | 9,475,775 | 909,046 | 22 | 9,427,766 | |
| 2010 base | June 30, 2010 | 4,577,654 | 439,151 | 23 | 4,623,713 | |
| 2011 base | June 30, 2011 | 2,690,665 | 252,965 | 24 | 2,700,344 | |
| 2012 base | June 30, 2012 | 1,410,313 | 135,297 | 25 | 1,462,553 | |
| 2013 base | June 30, 2013 | 3,153,185 | 302,496 | 26 | 3,307,848 | |
| 2014 base | June 30, 2014 | (1,596,745) | (153,182) | 27 | (1,692,821) | |
| 2015 base | June 30, 2015 | (2,905,886) | (278,772) | 28 | (3,110,654) | |
| 2016 base | June 30, 2016 | 6,182,167 | 593,078 | 29 | 6,676,740 | |
| 2017 base | June 30, 2017 | (4,324,485) | (414,864) | 30 | (4,324,485) | |
| Total | | | 3,116,784 | | 31,618,505 | |

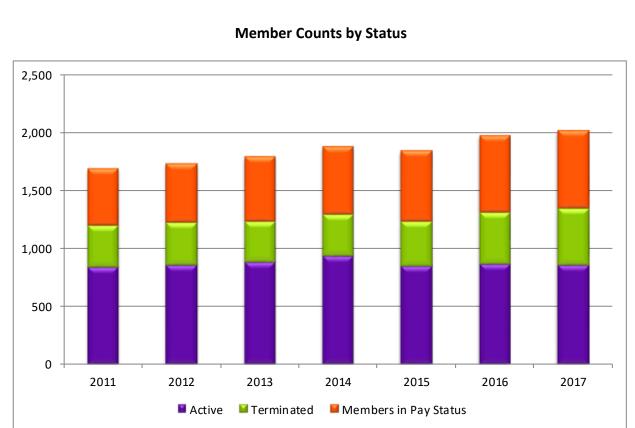


Member Data

The data reported by the Plan Sponsor for this valuation includes 845 active employees who met the Plan's minimum age and service requirements as of June 30, 2017.

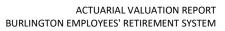
| Member Data | | | | | | | | |
|-----------------------------|--------|------------|---------------|------------|-------|--|--|--|
| | | Terminated | Due refund of | Members in | | | | |
| | Active | vested | contributions | pay status | Total | | | |
| Total members June 30, 2016 | 854 | 376 | 80 | 660 | 1,970 | | | |
| Adjustments | -3 | -9 | +8 | -1 | -5 | | | |
| Retirements | -18 | -9 | N/A | +27 | 0 | | | |
| Disabilities | -2 | +1 | N/A | +1 | 0 | | | |
| Terminations | | | | | | | | |
| Vested | -19 | +19 | N/A | N/A | 0 | | | |
| Lump sum payments | -14 | -3 | 0 | N/A | -17 | | | |
| Due contributions only | -36 | N/A | +36 | N/A | 0 | | | |
| Deaths | | | | | | | | |
| With death benefit | -3 | -1 | 0 | -4 | -8 | | | |
| Without death benefit | 0 | 0 | 0 | -17 | -17 | | | |
| Transfers | 0 | 0 | 0 | N/A | 0 | | | |
| Rehires | +3 | -3 | 0 | N/A | 0 | | | |
| New beneficiaries | N/A | N/A | N/A | +8 | +8 | | | |
| New entrants | +83 | N/A | 0 | N/A | +83 | | | |
| Total members June 30, 2017 | 845 | 371 | 124 | 674 | 2,014 | | | |



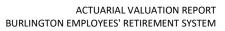


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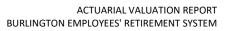
| Member Data | | | | | | | |
|--------------------------|--------------|----------------------|--------------------------------|--------------------------|--|--|--|
| | Active | Terminated vested | Due refund of contributions | Members in pay status | | | |
| Average age | | | | | | | |
| June 30, 2016 | 45.4 | 52.8 | 37.2 | 68.0 | | | |
| June 30, 2017 | 45.3 | 53.8 | 37.7 | 68.5 | | | |
| Average service | | | | | | | |
| June 30, 2016 | 10.3 | N/A | N/A | N/A | | | |
| June 30, 2017 | 10.4 | N/A | N/A | N/A | | | |
| Covered employee payroll | | | | | | | |
| June 30, 2016 | \$48,107,717 | N/A | N/A | N/A | | | |
| June 30, 2017 | 45,650,372 | N/A | N/A | N/A | | | |
| Total annual benefits | | | | | | | |
| June 30, 2016 | N/A | N/A | N/A | \$14,499,003 | | | |
| June 30, 2017 | N/A | 1,792,334 | N/A | 14,944,747 | | | |



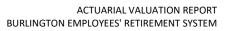
| Member Data - Class A | | | | | | | | |
|-----------------------------|--------|------------|---------------|------------|-------|--|--|--|
| | | Terminated | Due refund of | Members in | | | | |
| | Active | vested | contributions | pay status | Total | | | |
| Total members June 30, 2016 | 174 | 15 | 6 | 177 | 372 | | | |
| Adjustments | 0 | 0 | 0 | 0 | 0 | | | |
| Retirements | -4 | 0 | N/A | +4 | 0 | | | |
| Disabilities | -1 | 0 | N/A | +1 | 0 | | | |
| Terminations | | | | | | | | |
| Vested | -1 | +1 | N/A | N/A | 0 | | | |
| Lump sum payments | -3 | 0 | 0 | N/A | -3 | | | |
| Due contributions only | -3 | N/A | +3 | N/A | 0 | | | |
| Deaths | | | | | | | | |
| With death benefit | 0 | 0 | 0 | -1 | -1 | | | |
| Without death benefit | 0 | 0 | 0 | -4 | -4 | | | |
| Transfers | +3 | 0 | 0 | N/A | +3 | | | |
| Rehires | +1 | -1 | 0 | N/A | 0 | | | |
| New beneficiaries | N/A | N/A | N/A | +1 | +1 | | | |
| New entrants | +13 | N/A | 0 | N/A | +13 | | | |
| Total members June 30, 2017 | 179 | 15 | 9 | 178 | 381 | | | |



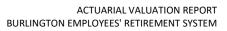
| Member Data - Class B | | | | | | | | |
|-----------------------------|--------|------------|---------------|------------|-------|--|--|--|
| | | Terminated | Due refund of | | | | | |
| | Active | vested | contributions | pay status | Total | | | |
| Total members June 30, 2016 | 680 | 361 | 74 | 483 | 1,598 | | | |
| Adjustments | -3 | -9 | +8 | -1 | -5 | | | |
| Retirements | -14 | -9 | N/A | +23 | 0 | | | |
| Disabilities | -1 | +1 | N/A | 0 | 0 | | | |
| Terminations | | | | | | | | |
| Vested | -18 | +18 | N/A | N/A | 0 | | | |
| Lump sum payments | -11 | -3 | 0 | N/A | -14 | | | |
| Due contributions only | -33 | N/A | +33 | N/A | 0 | | | |
| Deaths | | | | | | | | |
| With death benefit | -3 | -1 | 0 | -3 | -7 | | | |
| Without death benefit | 0 | 0 | 0 | -13 | -13 | | | |
| Transfers | -3 | 0 | 0 | N/A | -3 | | | |
| Rehires | +2 | -2 | 0 | N/A | 0 | | | |
| New beneficiaries | N/A | N/A | N/A | +7 | +7 | | | |
| New entrants | +70 | N/A | 0 | N/A | +70 | | | |
| Total members June 30, 2017 | 666 | 356 | 115 | 496 | 1,633 | | | |



| Member | Data - Class B | - Burlington | Electric Depar | tment | |
|-----------------------------|----------------|----------------------|--------------------------------|--------------------------|-------|
| | Active | Terminated vested | Due refund of contributions | Members in pay status | Total |
| Total members June 30, 2016 | 104 | 73 | 1 | 134 | 312 |
| Adjustments | -1 | -1 | +1 | 0 | -1 |
| Retirements | -2 | -3 | N/A | +5 | 0 |
| Disabilities | -1 | 0 | N/A | +1 | 0 |
| Terminations | | | | | |
| Vested | -5 | +5 | N/A | N/A | 0 |
| Lump sum payments | -2 | 0 | 0 | N/A | -2 |
| Due contributions only | 0 | N/A | 0 | N/A | 0 |
| Deaths | | | | | |
| With death benefit | 0 | 0 | 0 | 0 | 0 |
| Without death benefit | 0 | 0 | 0 | -4 | -4 |
| Transfers | 0 | 0 | 0 | N/A | 0 |
| Rehires | 0 | 0 | 0 | N/A | 0 |
| New beneficiaries | N/A | N/A | N/A | 0 | 0 |
| New entrants | +4 | N/A | 0 | N/A | +4 |
| Total members June 30, 2017 | 97 | 74 | 2 | 136 | 309 |



| Memb | er Data - Clas | s B - Burlingto | on School Dist | rict | |
|-----------------------------|----------------|----------------------|--------------------------------|--------------------------|-------|
| | Active | Terminated vested | Due refund of contributions | Members in pay status | Total |
| Total members June 30, 2016 | 196 | 77 | 51 | 119 | 443 |
| Adjustments | 0 | -5 | +4 | 0 | -1 |
| Retirements | -5 | -1 | N/A | +6 | 0 |
| Disabilities | 0 | 0 | N/A | 0 | 0 |
| Terminations | | | | | |
| Vested | -6 | +6 | N/A | N/A | 0 |
| Lump sum payments | 0 | -1 | 0 | N/A | -1 |
| Due contributions only | -21 | N/A | +21 | N/A | 0 |
| Deaths | | | | | |
| With death benefit | 0 | 0 | 0 | -1 | -1 |
| Without death benefit | 0 | 0 | 0 | -4 | -4 |
| Transfers | 0 | 0 | 0 | N/A | 0 |
| Rehires | +1 | -1 | 0 | N/A | 0 |
| New beneficiaries | N/A | N/A | N/A | +1 | +1 |
| New entrants | +19 | N/A | 0 | N/A | +19 |
| Total members June 30, 2017 | 184 | 75 | 76 | 121 | 456 |



| | Member D | ata - Class B - | Others | | |
|-----------------------------|----------|----------------------|--------------------------------|--------------------------|-------|
| | Active | Terminated vested | Due refund of contributions | Members in pay status | Total |
| Total members June 30, 2016 | 380 | 211 | 22 | 230 | 843 |
| Adjustments | -2 | -3 | +3 | -1 | -3 |
| Retirements | -7 | -5 | N/A | +12 | 0 |
| Disabilities | 0 | +1 | N/A | -1 | 0 |
| Terminations | | | | | |
| Vested | -7 | +7 | N/A | N/A | 0 |
| Lump sum payments | -9 | -2 | 0 | N/A | -11 |
| Due contributions only | -12 | N/A | +12 | N/A | 0 |
| Deaths | | | | | |
| With death benefit | -3 | -1 | 0 | -2 | -6 |
| Without death benefit | 0 | 0 | 0 | -5 | -5 |
| Transfers | -3 | 0 | 0 | N/A | -3 |
| Rehires | +1 | -1 | 0 | N/A | 0 |
| New beneficiaries | N/A | N/A | N/A | +6 | +6 |
| New entrants | +47 | N/A | 0 | N/A | +47 |
| Total members June 30, 2017 | 385 | 207 | 37 | 239 | 868 |



Description of Actuarial Methods

Asset Valuation Method

The Actuarial Value of assets used in the development of plan contributions phases in the recognition of differences between the actual return on Market Value and expected return on Market Value over a 10-year period at 10% per year.

Actuarial Cost Method

Changes in Actuarial Cost Method: None.

Description of Current Actuarial Cost Method: Entry Age Normal (level percentage of salary)

<u>Normal Cost</u>: Under this method, the total normal cost is the sum of amounts necessary to fund each active member's normal retirement benefit if paid annually from entry age to assumed retirement age. Entry age is the age at which the employee would have been first eligible for the plan, if it had always been in effect. The normal cost for each participant is expected to remain a level percentage of the employee's salary. The normal cost for the plan is the difference between the total normal cost for the year and the anticipated member contributions for that year.

<u>Past Service Liability</u>: The present value of future benefits that relates to service before the valuation date is the total past service liability. The unfunded past service liability is the difference between the total past service liability and any assets (including accumulated member contributions).

Unfunded accrued liabilities as of July 1, 2004 were amortized over a closed 30-year period. Future changes in the unfunded accrued liability will be amortized separately, assuming a new 30-year amortization each valuation.

<u>Experience Gains and Losses</u>: All experience gains and losses (the financial effect of the difference between the actual experience during the prior period and the result expected by the actuarial assumptions for that prior period) appear directly in the past service liability and are amortized at the same rate the plan is amortizing the remaining unfunded past service liability.



Description of Actuarial Assumptions

Changes in Actuarial Assumptions

There were no changes in assumptions from the prior valuation.

Investment rate of return (net of investment-related and administrative expenses)

8.00%

Rate of compensation increase (including inflation)

Graded scale (sample rates shown below):

| Age | Class A&B |
|-----|-----------|
| 25 | 8.8% |
| 30 | 7.0% |
| 35 | 5.6% |
| 40 | 4.9% |
| 45 | 4.6% |
| 50 | 4.3% |
| 55 | 4.0% |
| 59 | 3.9% |
| 60 | 3.9% |
| 65 | 3.8% |
| 69 | 3.8% |

For Class A Firemen and Class B AFSCME employees, salary increases rates as described above were reduced by 2% during fiscal year 2015-2016, 1.5% during fiscal 2016-2017, 0.5% during fiscal 2017-2018 and 0.25% during fiscal 2018-2019 to reflect lower short term salary increase per the collective bargaining agreements in place.

The actuarial assumption in regards to rate of compensation increases shown above are based on the results of an actuarial experience study for the period July 1, 2007 through June 30, 2012.

Inflation

3.00%.

This assumption is based on long term historical inflation numbers. While near term averages have been lower, we do not believe this trend will continue indefinitely and expect that there will be a reversion to the long-term average.

Mortality

105% of the probabilities in the RP-2000 Mortality Table with separate male and female rates, with no adjustment, combined table for non-annuitants and annuitants, projected to the valuation date with Scale BB.

Mortality Improvement

Projected to date of decrement using Scale BB (generational).

This mortality table is commonly used by public pension systems. It is a published pension mortality study released by the Society of Actuaries.



ACTUARIAL VALUATION REPORT BURLINGTON EMPLOYEES' RETIREMENT SYSTEM

Retirement age

| Cla | iss A |
|-------|-------|
| Age | Rate |
| 45-46 | 15% |
| 47-48 | 30% |
| 49-51 | 5% |
| 52 | 18% |
| 53-59 | 20% |
| 60 | 100% |
| | |
| | |
| | |

70

Termination prior to retirement

| Cla | ass A |
|------|----------|
| Samp | le Rates |
| Age | Rate |
| 20 | 14.0% |
| 25 | 7.0% |
| 30 | 6.0% |
| 35 | 6.0% |
| 40 | 5.0% |
| 45 | 4.0% |
| 50 | 3.0% |
| 55 | 0.0% |

| | Class B | | | |
|-----|------------------|-------|--|--|
| S | Sample Rates | | | |
| | Years of Service | | | |
| Age | 0-2 | 3+ | | |
| 20 | 27.5% | 15.0% | | |
| 25 | 27.5% | 15.0% | | |
| 30 | 22.0% | 12.0% | | |
| 35 | 22.0% | 10.0% | | |
| 40 | 16.5% | 4.0% | | |
| 45 | 16.5% | 4.0% | | |
| 50 | 16.5% | 4.0% | | |
| 55 | 16.5% | 4.0% | | |
| 60 | 16.5% | 4.0% | | |
| 65 | 16.5% | 4.0% | | |
| 70 | 0.0% | 0.0% | | |

100%

Disability

| Cla | ss A |
|-----|-------|
| Age | Rate |
| 20 | 2.0% |
| 25 | 2.4% |
| 30 | 2.9% |
| 35 | 3.8% |
| 40 | 5.0% |
| 45 | 7.4% |
| 50 | 12.5% |
| 55 | 0.0% |
| | |
| | |

The actuarial assumptions in regards to rates of decrement shown above are based on the results of an actuarial experience study for the period July 1, 2007 through June 30, 2012.



Administrative expenses

Currently, there is no expense load assumed for administrative expenses.

Cost of living increases

Cost of living increases averaging 3% per year were assumed. For employees retiring after July 1, 2017, cost of living increases were capped at 2.75%

Accrual rate election

85% of retiring members are assumed to elect the no COLA accrual rate and 15% of retiring members are assumed to elect the full COLA accrual rate.

Payroll growth

3.50% per year.

Percent of active employees married

80%.

Spouse's age

Husbands are assumed to be 3 years older than wives.



Summary of Plan Provisions

This exhibit summarizes the major provisions of the Plan. It is not intended to be, nor should it be interpreted as a complete statement of all plan provisions. To the extent that this summary does not accurately reflect the plan provisions, then the results of this valuation may not be accurate.

Effective date

July 1, 1954.

Average Final Compensation (AFC)

For Class A Police non-union employees, Class A Police employees hired after January 10, 2011, Class A Fire employees hired after October 7, 2011 Class B AFSCME Local 1343 employees hired after June 7, 2011, Class B IBEW Local 300 employees hired after October 30, 2012 or any employees hired on or after January 1, 2018, it is the average earnable compensation during the highest 5 non-overlapping 12-month periods. For all others, it is the average earnable compensation during the highest 3 non-overlapping 12-month periods.

Membership eligibility

Regular employees of the City of Burlington excluding elective officers other than the mayor and excluding teachers other than certain teachers employed prior to July 1, 1947.

Membership classification

Class A

Members of the Fire and Police Departments not including clerical employees.

Class B

All other members.

Service retirement

Eligibility

Class A

For Police employees hired before July 1, 2006, age 42 and 5 years of creditable service. For Police employees hired after January 10, 2011, age 40 and 20 years of creditable service. For other Police Union employees, age 45 and 5 years of creditable service. For Fire employees hired after October 7, 2011, age 45 and 20 years of creditable service. For Fire Union employees hired on or before October 7, 2011, age 45 and 5 years of creditable service. For all others, age 42 and 5 years of creditable service. Compulsory at age 60.

Class B

Age 55 and 5 years of creditable service.



Service retirement (continued)

Amount of Benefit

Class A

For Fire employees hired before January 1, 2007 and Police employees hired before July 1, 2006, 2.75% of AFC times creditable service not in excess of 25 years plus 0.50% of AFC times creditable service between 25 and 35 years. For Police employees hired after January 10, 2011, 2.50% of AFC times creditable service not in excess of 20 years plus 5.00% of AFC times creditable service between 20 and 25 years. For all others, 2.65% of AFC times creditable service not in excess of 25 years plus 0.50% of AFC times creditable service between 25 and 35 years. Benefit increased by Cost of Living Adjustment detailed below.

In lieu of this benefit, at the time of retirement, a member hired prior to July 1, 2006 may choose either (i) an accrual rate of 3.25% for the first 25 years of creditable service, plus an accrual of 0.50% for creditable service between 25 and 35 years, and a Cost of Living Adjustment equal to one half of the Cost of Living Adjustment detailed below, or (ii) an accrual rate of 3.80% for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of 3.60% for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual rate of 0.50% for creditable service between 25 and 35 years, and no Cost of Living Adjustment.

A Fire employee hired on or after January 1, 2007 or a Police employee hired on or after July 1, 2006 may only select a benefit with a full Cost of Living Adjustment. Any Fire employee hired after October 2015 cannot receive a pension that exceeds 90% of the employee's average final compensation.

For Police employees hired after January 10, 2011, the above benefits based on AFC and creditable service at retirement are reduced actuarially for the period of time by which retirement precedes age 50.

For all other Police employees, prior to age 55, the above benefit based on AFC and creditable service at retirement is reduced actuarially for the period of time by which retirement precedes the earlier of 25 years of creditable service and age 55. For employees who terminate with 20 to 25 years of creditable service the above benefit based on AFC and creditable service at retirement is reduced by 1.82% for each year that creditable service is less than 25 years.

For Fire employees hired after October 7, 2011, prior to age 55, the above benefit based on AFC and creditable service at retirement is reduced actuarially for the period of time by which retirement precedes the earlier of 25 years of creditable service and age 55. For employees who terminate with 20 to 25 years of creditable service the above benefit based on AFC and creditable service at retirement is reduced by 1.82% for each year that creditable service is less than 25 years.

For Fire employees hired on or before October 7, 2011 who retire on July 1, 2013 or later, the above benefit based on AFC and creditable service at retirement is reduced actuarially for the period of time by which retirement precedes the earlier of 25 years of creditable service and age 55. For employees who terminate with 20 to 25 years of creditable service and have attained age 48, the above benefit based on AFC and creditable service at retirement is reduced by 1.82% for each year that creditable service is less than 25 years. Employees that retire at age 50 with at least 20 years of creditable service receive an unreduced benefit.



Class B

For employees hired prior to July 1, 2006: Age 65 and older, the greater of (i) 1.60% of AFC (at age 65) times creditable service not in excess of 25 years plus 0.50% of AFC (at age 65) times creditable service in excess of 25 years or (ii) the actuarial equivalent of the benefit determined at age 65. This benefit will be increased by the Cost of Living Adjustment detailed below.

For employees hired on or after July 1, 2006: Age 65 and older, the greater of (i) 1.40% of AFC (at age 65) times creditable service not in excess of 25 years plus 0.50% of AFC (at age 65) times creditable service in excess of 25 years or (ii) the actuarial equivalent of the benefit determined at age 65. This benefit will be increased by the Cost of Living Adjustment detailed below.

In lieu of this benefit, at the time of retirement, a member may choose (i) an accrual rate of 1.90% for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of 1.80% for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual of 0.50% for creditable service in excess of 25 years, and a Cost of Living Adjustment equal to one-half of the Cost of Living Adjustment detailed below, or (ii) an accrual rate of 2.20% for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of 2.00% for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual rate of commencing July 2.00% for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of 2.00% for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual of 0.50% for creditable service in excess of 25 years, and no Cost of Living Adjustment.

Except for employees detailed below, prior to age 65, the above benefit based on AFC and creditable service at retirement reduced by 2% for each year that retirement precedes age 65. For Class B IBEW employees hired before May 1, 2008, who elect a contribution rate of 4% is elected the early reduction factor is 2% for each year the retirement precedes age 65. For Class B IBEW employees hired before May 1, 2008, who elect a contribution rate of 4% is elected the early reduction factor is 2% for each year the retirement precedes age 65. For Class B IBEW employees hired before May 1, 2008, who elect a contribution rate of 3% the benefit is reduced by a factor which varies with age. The factor equals 1 at 65 and .4 at 50.

For Class B IBEW employees hired after May 4, 2008, the benefit is reduced by a factor which varies by age. The factor equals 1 at 65 but is equal to .356 at age 55.

For Class B AFSCME Local 1343 employees hired before January 1, 2006 that meet the Rule of 82 by December 7, 2011 but retire later than December 7, 2011, the reduction is 4% per year at ages 55 to 59 for each year under age 65, and the standard 2% per year reduction for ages 60 to 65. For other Class B AFSCME Local 1343 employees retiring after December 7, 2011, there will be full actuarial reduction from ages 55 to 59 and the standard 2% per year reduction for ages 60 to 65.

Cost of Living Adjustment

Benefits increase annually by changes in the Consumer Price Index of more than 1%. For Class A Firemen and Class B AFSCME employees retiring after November 2, 2015, the maximum annual increase is 2.75%. For all other participants, the maximum annual increase is 5%. Increases are not applicable to deferred vested benefit prior to commencement, survivor income benefit, disability benefit prior to normal retirement age or members who choose to have no cost of living adjustment. For all employees retiring after July 1, 2017, the maximum annual increase is 2.75%.

Service Adjustment

Class A service for calculation of benefits shall be adjusted such that any Class A employee shall be granted 1.07 years of credit for each year in which the employee worked prior to July 1, 1996, and 1.17 years thereafter, in a position regularly assigned a workweek consisting on average of fifty-three or more hours of work per week.



Disability Retirement

Eligibility

All Members. Permanently disabled. Class B AFSCME Local 1343 employees must have 2 years of creditable service to be eligible for disabilities that are not work-related. Class A Fire employees hired after October 7, 2011 must have 1 year of creditable service to be eligible for disabilities that are not work-related. All other employees are immediately eligible.

Amount of Benefit

A benefit payable until normal service retirement eligibility (Class A - age 55 and 5 years of creditable service, Class B - age 65 and 5 years of creditable service). For Class A Fire employees hired after October 7, 2011, it is equal to 66 2/3% of the member's earnable compensation less workmen's compensation. For Class B IBEW employees hired after October 20, 2012, it is equal to 66 2/3% of the member's earnable compensation less workmen's compensation. For Class B AFSCME employees, it is equal to 66 2/3% of the member's earnable compensation less workmen's compensation. For Class B AFSCME employees, it is equal to 66 2/3% of the member's earnable compensation less workmen's compensation and Social Security. For all others, it is equal to 75% of the member's earnable compensation and, in the case of Class B, less Social Security.

After normal service retirement eligibility, a service retirement benefit based on AFC at retirement and creditable service at normal service retirement eligibility, including the period while permanently disabled and receiving a disability benefit from the System.

Accidental Death

Eligibility

Class A only. Death due to accident while in the performance of duty.

Amount of Benefit

A benefit to the spouse until death or remarriage of the greater of (i) 55% of AFC, and (ii) the participant's current accrued retirement benefit. Upon death or remarriage of the spouse, the benefit will be payable to children until age 21.

Survivor Income

Eligibility

All Members. Death in active service.

Amount of Benefit

Class A

30% of compensation during the July preceding death payable to spouse until earlier of death or 2nd anniversary of remarriage. An additional 5% per unmarried child under 21 (maximum additional 10%) is payable until benefits cease or children no longer eligible. If there is no spouse or spouse dies, the benefit is payable to unmarried children under age 21 until earlier of death, marriage or age 21.

Class B

30% of compensation during the July preceding death payable to spouse until earlier of death, 2nd anniversary of remarriage or age 62. Upon the spouse's attainment of age 62 (if not remarried) a benefit based on the 50% Joint and Survivor form of payment will be paid to the spouse for life. If there is no spouse or spouse dies, the benefit is payable to unmarried children under age 21 until earlier of death, marriage or age 21.



Return of Contributions

Accumulated contributions returned upon separation with no vested benefits under the plan or upon death with no accidental death benefit payable. Interest will accrue on these contributions at a rate of 5.5% until December 31, 2017 and 2.0% thereafter, or at a higher rate as may be set by the Retirement Board. Interest will only accrue on contributions made after June 30, 1980.

Upon death of a retired member, the excess of his contribution at retirement over the benefits paid will be paid to his beneficiary or estate.

Vested Retirement

Eligibility

5 years of creditable service.

Prior: For Class A Fire and Class B AFSCME employees, 5 years of creditable service unless currently vested. For all others, 3 years of creditable service.

Vesting percentage.

100% after 5 years.

Prior: For Class A Fire and Class B AFSCME employees, 100% after 5 years, and 0% before that, unless already partially vested as of July 1, 2015 under the prior vesting schedule. For all others, a percentage grading from 20% after completion of 3 years of service to 100% after completion of 7 years of service.

Amount of Benefit

Class A

Vesting percentage times the benefit calculated using AFC and creditable service at termination. The benefit is payable commencing at age 55. Member may elect early receipt with reduction as for service retirement prior to age 55.

Class B

Vesting percentage times the benefit calculated using AFC and creditable service at termination. The benefit is payable commencing at age 65. Member may elect early receipt with reduction as for service retirement prior to age 65.

Survivor Spouse's Pension

Eligibility

All Members. Death of a terminated member entitled to a vested retirement benefit prior to commencement of such benefit.

Amount of Benefit

50% of reduced accrued benefit reflecting the 50% Joint and Survivor form of payment (ages as of date payments commence) payable at member's early retirement date.

Spouse may elect to receive payments later than member's early retirement date with no reduction for receipt at member's 65th birthday.

Offsets on Benefits

Disability and accidental death benefits are offset by workmen's compensation paid for the same disability or death.



Contributions

By Members

Class A

11.0% of earnable compensation for Class A employees for the first 35 years of creditable service, and none thereafter.

Class B

Member contributions for Class B employees, who elected to continue to be eligible for early retirement benefits at 2% per year deduction between ages 55 and 65, in accordance with the 2006-2009 collective bargaining agreement will be 4.8% in fiscal year 2016-2017, and 5.2% beginning with fiscal year 2017-2018. Member contributions for all other Class B employees will be will be 3.8% in fiscal year 2016-2017, and 4.2% beginning with fiscal year 2017-2018.

By City

Remainder necessary to fund for the benefits of the System on an actuarial basis. With the exception that if actuarially determined employer contribution exceeds \$9 million for fiscal year 2016-2017, all the employee contributions will automatically increase up to 1% of wages and then re-set at the end of the year. If the actuarially determined employer contribution exceeds \$9 million for fiscal year 2017-2018, the contribution will increase up to 2% and then re-set; further, if those increases are not enough to keep the ADEC at \$9M, the City may reopen the financial components of the Agreement (Backup trigger).