## REPORT ON THE FIFTY-EIGHTH

ACTUARIAL VALUATION OF THE BURLINGTON EMPLOYEES' RETIREMENT SYSTEM PREPARED AS OF JUNE 30, 2011

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December 29, 2011
Retirement Board
Burlington Employees' Retirement System
Burlington, VT 05401
Members of The Board:
Article II, Division 2, Section 24-60 of the ordinance in relation to the Burlington Employees' Retirement System provides for actuarial valuations of the assets and liabilities of the System at least once every three years and more often if the Retirement Board so directs.

The fifty-eighth actuarial valuation of the System, prepared as of June 30, 2011, has now been completed and the results are presented in this report, together with the determination of the amount of contributions payable by the City in accordance with the Retirement Board's funding policy and the disclosure information for accounting purposes required by the Governmental Accounting Standards Board.

The actuarial assumptions and methods used in this valuation are described in Schedule B.
The results of the valuation are based on the Plan provisions in effect on June 30, 2011. A summary of the System provisions is shown in Schedule C.

The Table of Contents, which immediately follows, outlines the material contained in the report.
I am a Fellow of the Society of Actuaries and a Member of the American Academy of Actuaries. I meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all applicable Actuarial Standards of Practice, and I am available to answer questions about it.

Respectfully submitted,

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David L. Driscoll, F.S.A.
Principal, Consulting Actuary

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Ms. Marina Collins<br>Retirement Administrator<br>Burlington Employees' Retirement System<br>Retirement Office<br>179 South Winooski Avenue, Suite 100<br>Burlington, VT 05401

Dear Ms. Collins:
Enclosed herewith are fifteen signed copies of our "Report on the Fifty-Eighth Actuarial Valuation of the Burlington Employees' Retirement System Prepared as of June 30, 2011."

If you have any questions concerning the report, please do not hesitate to contact us.
Sincerely,

David L. Driscoll, F.S.A.
Principal, Consulting Actuary

## REPORT ON THE FIFTY-EIGHTH ACTUARIAL VALUATION OF THE BURLINGTON EMPLOYEES' RETIREMENT SYSTEM PREPARED AS OF JUNE 30, 2011

## SECTION I - SUMMARY OF PRINCIPAL RESULTS

For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized below.

| Valuation Date | 6/30/2011 |  | 6/30/2010 |  |
| :---: | :---: | :---: | :---: | :---: |
| Class A: |  |  |  |  |
| Number of active members |  | 171 |  | 166 |
| Earnable compensation for employees below maximum retirement age | \$ | 9,753,554 | \$ | 9,194,959 |
| Number of retirees and beneficiaries |  | 144 |  | 138 |
| Annual retirement benefits | \$ | 4,758,701 | \$ | 4,381,213 |
| Number with vested rights |  | 14 |  | 16 |
| Class B: |  |  |  |  |
| Number of active members |  | 661 |  | 671 |
| Earnable compensation for employees below maximum retirement age | \$ | 33,218,316 | \$ | 31,966,619 |
| Number of retirees and beneficiaries |  | 343 |  | 325 |
| Annual retirement benefits | \$ | 4,153,406 | \$ | 3,962,806 |
| Number with vested rights |  | 351 |  | 353 |
| Actuarial Value of Assets: |  |  |  |  |
| Class A | \$ | 63,375,971 | \$ | 62,464,131 |
| Class B |  | 71,721,487 |  | 68,130,408 |
| Unfunded Past Service Cost: |  |  |  |  |
| Class A | \$ | 23,312,258 | \$ | 19,663,329 |
| Class B |  | 31,786,975 |  | 29,065,475 |
| Contributions for Fiscal Year |  | 2013 |  | 2012 |
| Class A: |  |  |  |  |
| Normal Contribution Rate |  | 10.50\% |  | 9.81\% |
| Past Service Contribution | \$ | 2,159,631 | \$ | 1,822,213 |
| Class B: |  |  |  |  |
| Normal Contribution Rate |  | 6.15\% |  | 6.28\% |
| Past Service Contribution | \$ | 2,932,730 | \$ | 2,679,766 |

Comments on the valuation results as of June 30, 2011, are given in Section IV and further discussion of the contribution levels is set forth in Section V. Section VI presents the referenced disclosure information for accounting purposes.

Schedule B of this report outlines the full set of actuarial assumptions and methods employed. All assumptions are the same as those used in the previous valuation.

Schedule C presents a summary of the principal System provisions as interpreted for the valuation.

## SECTION II - EMPLOYEE DATA

Employee data were furnished by the Retirement Administrator.

Tables 1 through 4 of Schedule D show the number and annual earnable compensation of active members who were included in the valuation, while Tables 5 through 14 of Schedule D show the number and annual retirement benefits of retirees and beneficiaries included in the valuation. In addition, there are 14 Class A former members and 351 Class B former members entitled to deferred vested benefits.

## SECTION III - ASSETS

The amount of assets taken into account in this valuation is based on information reported by the Retirement Administrator.

Assets are valued on the basis of a five-year expected average market value method. The operation of this method is described in Schedule B. Based on this method, the actuarial value of assets amount to $\$ 135,097,458$. This may be compared to current book and market values of $\$ 118,601,471$ and \$134,079,722, respectively.

As part of the valuation procedure, investment earnings for the year ending June 30, 2011, have been analyzed. Based on the procedures used and certain approximations, the yield for the year has been determined to be $21.17 \%$ based on the market value of assets and $4.4 \%$ based on the actuarial value of assets.

## SECTION IV - COMMENTS ON VALUATION

The projected unit credit actuarial cost method was used for this valuation. Under this cost method, benefits for active participants are determined on the basis of projected compensation at the time of anticipated termination and service credited to the valuation date. The normal cost under this method is the value of the difference between the benefits accrued for service to the valuation date and the benefits based on service to one year after the valuation date.

Schedule A of this report contains the valuation balance sheet, which shows the present and prospective assets and liabilities of the Plan as of June 30, 2011. Since the Plan is valued on a unit credit cost method basis, the balance sheet does not take into account accruals after the valuation date.

The valuation balance sheet shows that as of June 30, 2011, the Plan has accrued liabilities of \$190,196,691. Of this amount, \$98,141,579 represents the present value of benefits payable on account of retired members, beneficiaries and former members entitled to deferred vested benefits and $\$ 92,055,112$ represents the accrued liability for prospective benefits payable on account of active members. Against these liabilities the Plan has assets at actuarial value of $\$ 135,097,458$. The difference between the total liabilities of $\$ 190,196,691$ and the assets of $\$ 135,097,458$ is $\$ 55,099,233$, which represents the unfunded past service cost as of June 30, 2011. The Plan's unfunded accrued liability increased by $\$ 6,370,429$ from its level of $\$ 48,728,804$ as of June 30, 2010. Schedule A contains a breakdown of the assets and liabilities described above by membership class.

## SECTION V - APPROPRIATION TO BE MADE BY THE CITY

Article II, Division 1, Section 24-32 of the Ordinances governing the operation of the System provides that the Retirement Board shall certify to the Board of Finance the amounts payable by the City to the System, including an estimated amount required for operating expenses.

The contribution by the City, excluding operating expenses, consists of:
(i) a normal contribution to cover the cost of benefits expected to accrue under the Plan during the fiscal year following the valuation date, reduced by required Class A member contributions equal to $10.8 \%$ of compensation and required Class B member contributions equal to $3.0 \%$ of compensation, plus (ii) a past service contribution to liquidate the unfunded past service cost over a 30 -year period from the date of establishment in accordance with the policy adopted by the Retirement Board. The initial unfunded past service cost to be amortized over 30 years was that in existence as of June 30, 2004.

Based on the latest valuation results and the adopted funding policy, the following table sets forth the basis for determining the City's contributions for the fiscal year ending June 30, 2013.

## CONTRIBUTIONS PAYABLE BY THE CITY TO THE SYSTEM

| CONTRIBUTION | AMOUNT | PERCENT OF COMPENSATION |
| :---: | :---: | :---: |
| Class A |  |  |
| Normal | \$ 991,311* | 10.50\% |
| Past Service | 2,159,631 | 22.88\%* |
| Total | \$ 3,150,942 |  |
| Class B |  |  |
| Normal | \$ 2,091,833* | 6.15\% |
| Past Service | 2,932,730 | 8.62\%* |
| Total | \$ 5,024,563 |  |

* Estimated based on fiscal year end 2013 budget payrolls of \$9,440,369 and \$34,036,792 for Class A and Class B, respectively.

The recommended normal contribution rates in the table above should be applied to the respective earnable compensation of Class A and Class B members of the System for the fiscal year ending 2013 in order to determine the required appropriations for currently accruing benefits. In addition, the amount estimated to be required for operating expenses of the System is to be included in the certification of the Retirement Board.

Schedule E provides a development of the past service contribution for Class A and B members of the System for the fiscal year ending 2013.

Schedule F presents historical and projected required City contributions to the Retirement System assuming all actuarial assumptions are realized. No future liability gains or losses are reflected and assets are projected to earn $8 \%$ per annum. The projected payroll is assumed to increase $3.5 \%$ per annum. The actual annual contributions required by the City will be based upon future actuarial valuations.

## SECTION VI - ACCOUNTING INFORMATION

Statements No. 25 and 27 of the Governmental Accounting Standards Board (GASB), issued in November 1994, established standards of disclosure of pension information by public retirement systems. The Annual Pension Cost is determined as the Annual Required Contribution (ARC) under the Plan’s regular funding method with adjustments made to reflect the employer’s Net Pension Obligation (NPO). The NPO is the cumulative difference between the Annual Pension Cost and the actual contributions made since January 1, 1987. The Annual Pension Cost is adjusted for interest charged on the NPO at the valuation interest rate and amortization of the NPO.

The Annual Pension Cost for fiscal year 2011 was $\$ 6,756,072$. For fiscal year 2011, the City funding of $\$ 6,779,226$ was more than the Annual Pension Cost. As a result, the Net Pension Obligation decreased to \$1,956,477 as of June 30, 2011, as compared with \$1,979,631 as of June 30, 2010.

Calculation of the NPO as of June 30, 2012, and the fiscal year 2013 ARC will be possible after all fiscal year 2012 City contributions have been made.

The GASB statements also specify supplementary information that is to be furnished by the actuary. The Schedule of Funding Progress details the progress made over the last seven years in accumulating sufficient assets to provide for benefits when they are due. The Schedule of Employer Contributions shows the Annual Required Contribution and actual contributions over the last seven years. The Schedule of Annual Pension Cost shows the Annual Pension Cost for the last four years.

## REQUIRED SUPPLEMENTARY INFORMATION

## SCHEDULE OF FUNDING PROGRESS

| Valuation <br> Date | Actuarial <br> Value of <br> Assets <br> (a) | Actuarial <br> Accrued <br> Liability $^{1}$ <br> (AAL) <br> (b) | Excess of <br> Assets over <br> AAL <br> (a-b) | Funded Ratio <br> (a $/ \mathbf{b})$ | Covered <br> Payroll <br> (c) | Excess as a <br> percentage of <br> Covered <br> Payroll <br> $(\mathbf{( a - b ) / \mathbf { c } )}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $6 / 30 / 05$ | $105,424,671$ | $129,033,794$ | $(23,609,123)$ | $81.70 \%$ | $30,575,851$ | $-77.21 \%$ |
| $6 / 30 / 06$ | $108,343,798$ | $140,615,645$ | $(32,271,847)$ | $77.05 \%$ | $30,954,711$ | $-104.26 \%$ |
| $6 / 30 / 07$ | $119,785,835$ | $150,002,528$ | $(30,216,693)$ | $79.86 \%$ | $34,256,676$ | $-88.21 \%$ |
| $6 / 30 / 08$ | $129,101,729$ | $156,313,830$ | $(27,212,101)$ | $82.59 \%$ | $36,751,722$ | $-74.04 \%$ |
| $6 / 30 / 09$ | $129,841,522$ | $169,319,955$ | $(39,478,433)$ | $76.68 \%$ | $39,769,493$ | $-99.27 \%$ |
| $6 / 30 / 10$ | $130,594,539$ | $179,323,343$ | $(48,728,804)$ | $72.83 \%$ | $41,161,578$ | $-118.38 \%$ |
| $6 / 30 / 11$ | $135,097,458$ | $190,196,691$ | $(55,099,233)$ | $71.03 \%$ | $42,971,870$ | $-128.22 \%$ |

SCHEDULE OF EMPLOYER CONTRIBUTIONS

| Year <br> Ended | Annual <br> Required <br> Contribution | Actual <br> Contribution | Percentage <br> Contributed |
| :---: | :---: | :---: | :---: |
| $6 / 30 / 05$ | $4,563,111$ | $2,966,821$ | $65.02 \%$ |
| $6 / 30 / 06$ | $4,829,945$ | $3,782,704$ | $78.32 \%$ |
| $6 / 30 / 07$ | $5,514,753$ | $6,241,147$ | $113.17 \%$ |
| $6 / 30 / 08$ | $5,978,195$ | $5,719,282$ | $95.67 \%$ |
| $6 / 30 / 09$ | $5,798,294$ | $5,875,295$ | $101.33 \%$ |
| $6 / 30 / 10$ | $5,728,980$ | $5,752,571$ | $100.41 \%$ |
| $6 / 30 / 11$ | $6,778,735$ | $6,779,226$ | $100.01 \%$ |

## SCHEDULE OF ANNUAL PENSION COST

| Year <br> Ended | Annual <br> Pension Cost | Percentage <br> Contributed | Net Pension <br> Obligation |
| :---: | :---: | :---: | :---: |
| $6 / 30 / 08$ | $5,961,602$ | $95.67 \%$ | $2,122,154$ |
| $6 / 30 / 09$ | $5,779,561$ | $101.33 \%$ | $2,026,420$ |
| $6 / 30 / 10$ | $5,705,782$ | $100.41 \%$ | $1,979,631$ |
| $6 / 30 / 11$ | $6,756,072$ | $100.01 \%$ | $1,956,477$ |

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## SECTION VII - EXPERIENCE

Records are maintained whereby the actual experience of active and retired members is compared to that expected on the basis of the tables adopted by the Retirement Board. In this way, deviations in the experience from that anticipated will be noted and any adjustments believed necessary will be brought to the attention of the Retirement Board in the experience studies required by the Burlington Ordinances.

## SCHEDULE A

## VALUATION BALANCE SHEET SHOWING THE ASSETS AND LIABILITIES ACCRUED UNDER THE BURLINGTON EMPLOYEES' RETIREMENT SYSTEM AS OF JUNE 30, 2011

|  | ASSETS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Class A <br> Members |  | Class B <br> Members |  | Total System |  |
| Valuation Assets | \$ | 63,375,971 | \$ | 71,721,487 | \$ | 135,097,458 |
| Unfunded past service cost |  | 23,312,258 |  | 31,386,975 |  | 55,099,233 |
| Total Assets | \$ | 86,688,229 | \$ | 103,508,462 | \$ | 190,196,691 |

## LIABILITIES

Present value of benefits payable on account of retired members, beneficiaries and members entitled to deferred vested benefits

Present value of prospective benefits accrued to date on account of present active members

Total Liabilities
\$ 52,843,737 \$ 45,297,842 \$ 98,141,579

33,844,492 58,210,620 $-92,055,112$
$\$ \quad 86,688,229 \quad \$ \quad 103,508,462 \quad \$ \quad 190,196,691$

## SCHEDULE B

## OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS FOR DETERMINATION OF CONTRIBUTION AMOUNTS

BASIS FOR ASSUMPTIONS: 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 valuation was prepared on the basis of assumptions that were recommended to and adopted by the Board on the basis of an experience study covering the period from the July 1, 2004, to June 30 , 2009. As mandated by the Code of Ordinances, these assumptions will remain in effect for valuation purposes until such time the Board adopts revised assumptions.

INTEREST RATE: 8\% per annum, compounded annually.
SEPARATIONS BEFORE NORMAL RETIREMENT: Representative values of the assumed annual rates of withdrawal and vesting, early service retirement, death and disability are as follows:

| Age | Class A Members |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Withdrawal and Vesting | Early Service Retirement* | Death** | Disability** |
| 20 | 14.0\% |  |  |  |
| 25 | 9.0 |  | .1\% | .2\% |
| 30 | 6.0 |  | . 1 | . 3 |
| 35 | 5.0 |  | . 1 | . 4 |
| 40 | 4.0 |  | . 1 | . 5 |
| 42 | 3.6 |  | . 1 | . 6 |
| 45 | 3.0 | 15.0\% | . 1 | . 7 |
| 50 | 2.0 | 15.0 | . 2 | 1.3 |
| 53 | 0.8 | 20.0 | . 3 | 1.8 |
| 54 | 0.4 | 20.0 | . 3 | 2.0 |
| Class B Members |  |  |  |  |


| Age | Withdrawal and Vesting*** | Early Service Retirement | Death** | Disability** |
| :---: | :---: | :---: | :---: | :---: |
| 25 | 15.0\% |  | .1\% | .1\% |
| 30 | 12.0 |  | . 1 | . 1 |
| 35 | 10.0 |  | . 1 | . 1 |
| 40 | 5.0 |  | . 1 | . 2 |
| 45 | 5.0 |  | . 1 | . 3 |
| 50 | 5.0 |  | . 2 | . 5 |
| 55 | 4.0 | 5.0\% | . 4 | . 9 |
| 60 | 4.0 | 10.0 | . 6 | 1.7 |
| 61 | 4.0 | 20.0 | . 7 | 2.1 |
| 62 | 4.0 | 25.0 | . 8 | 2.5 |
| 63 | 4.0 | 30.0 | 1.0 | 2.9 |
| 64 | 4.0 | 20.0 | 1.1 | 3.4 |

* Rates are assumed to be $100 \%$ higher when first eligible for unreduced benefits.
** Rates reflect both ordinary and accidental occurrences.
${ }^{\bullet * * *}$ Rates are assumed to be higher during the first three years of membership (i.e., $25 \%$ at age $25,20 \%$ at ages 30 and $35,15 \%$ at ages 40-64).

NORMAL SERVICE RETIREMENT: The representative values of the assumed rates of normal service retirement are as follows:

| $\underline{\text { Age }}$ | $\underline{\text { Class A }}$ | $\underline{\text { Age }}$ | Class B |
| :---: | :---: | :---: | :---: |
| 55 | $20.0 \%$ | 65 | $20.0 \%$ |
| 56 | 20.0 | 66 | 20.0 |
| 57 | 20.0 | 67 | 20.0 |
| 58 | 20.0 | 68 | 20.0 |
| 59 | 20.0 | 69 | 50.0 |
| 60 | 100.0 | 70 | 100.0 |

BENEFIT COMMENCEMENT AFTER SEPARATION: Class A vested terminations are assumed to commence benefits at age 55. Class B vested terminations prior to June 30, 2000 are assumed to commence at age 65. Class B vested retirements after June 30, 2000 are assumed to commence at age 55 with a reduced benefit.

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

| 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 |

DEATHS AFTER RETIREMENT: According to the 1995 Buck Mortality Tables for Males and Females; RP-2000 Disability Mortality Table for the period after disability retirement, and prior to the start of the service retirement benefit.

FUTURE EXPENSES: No provisions made.

ADJUSTMENTS TO ALLOWANCES: Cost-of-living increases averaging $3 \%$ per year were assumed.

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.

FUNDING METHOD: Projected unit credit cost method. Gains (losses) as they occur, reduce (increase) the unfunded past service cost.

ASSET VALUATION METHOD: Based on a five-year expected value of assets method in which actuarial assets are set equal to the market value of assets as of the valuation date plus:
i) four-fifths of the difference between the expected return on market assets and the actual return on market assets during the year preceding the valuation;
ii) three-fifths of the difference between the expected return on market assets and the actual return on market assets during the second year preceding the valuation;
iii) two-fifths of the difference between the expected return on market assets and the actual return on market assets during the third year preceding the valuation; and
iv) one-fifth of the difference between the expected return on market assets and the actual return on market assets during the fourth year preceding the valuation.

Expected return is equal to a year of expected investment earnings (based on the valuation interest rate) on the market value of assets as of the beginning of the year and the cash flow (contributions minus benefit payments) during the year, assuming mid-year contributions and benefit payments.

MISCELLANEOUS: The valuation was prepared on an ongoing-plan basis. The valuation was based on members in the System as of the valuation date and did not take future members into account. No provision has been made for contingent liabilities with respect to nonvested terminated members who may be reemployed. The valuation assumptions anticipate future inflation of about $3 \%$ a year.

## SCHEDULE C

# BRIEF SUMMARY OF PRINCIPAL SYSTEM PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES 

## System Name

Effective Date

Average Final Compensation (AFC)

Burlington Employees' Retirement System

July 1, 1954.

For Class A Police non-union employees, Class A Police employees hired after January, 10, 2011 or Class B AFSCME Local 1343 employees hired after June 7, 2011, it is the average earnable compensation during the highest 5 non-overlapping 12month periods. For all others, it is the average earnable compensation during the highest 3 non-overlapping 12-month periods.

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 provided age at employment is less than normal retirement age. Maximum age limitation does not apply to mayor or appointee working full time for the City.

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

All other members.

## Service Retirement

Eligibility
Class A

Class B

For Police employees hired after January 10, 2011, age 40 and 20 years of creditable service. For all others, age 45 and 7 years of creditable service. Compulsory at age 60.

Age 55 and 7 years of creditable service.

Class A

Class B

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 $.5 \%$ of AFC times creditable service between 25 and 35 years. For Police employees hired after January 10, 2011, 2.5\% of AFC times creditable service not in excess of 20 years plus 5\% 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 $.5 \%$ 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 $.5 \%$ 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 $3.8 \%$ for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of $3.6 \%$ for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual rate of $.5 \%$ 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.

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

For all others, 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 employees hired prior to July 1, 2006: Age 65 and older, the greater of (i) $1.6 \%$ of AFC (at age 65) times creditable service not in excess of 25 years plus $.5 \%$ 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) $1.4 \%$ of AFC (at age 65) times creditable service not in excess of 25 years plus $.5 \%$ 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 $1.9 \%$ for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of $1.8 \%$ for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual of $.5 \%$ 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 2.2\% for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of $2.0 \%$ for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual of $.5 \%$ for creditable service in excess of 25 years, and no Cost of Living Adjustment.

A Class A Fire employee hired on or after January 1, 2007 may only select a benefit with a full Cost of Living Adjustment. A Class A Police employee hired on or after July 1, 2006 may only select a benefit with a full 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 IBEW employees hired on or after July 1, 2006, the benefit is reduced by a factor which varies with age. The factor equals 1 at age 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

## Service Adjustment

Benefits increase annually by changes in the Consumer Price Index of more than $1 \%$. The maximum annual increase is $6 \%$. Increase is 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.

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
Amount of Benefit

All Members. Permanently disabled.
A benefit payable until normal service retirement eligibility (Class A - age 55 and 7 years of creditable service, Class B - age 65 and 7 years of creditable service). For Class B AFSCME employees hired after June 7, 2011, it is equal to $662 / 3 \%$ 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 less workmen's 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

Amount of Benefit

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

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
Amount of Benefit
Class A

Class B

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.

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

## Vested Retirement

Eligibility
Amount of Benefit
Class A

Class B

Accumulated contributions returned upon separation with less than 3 years of service or upon death with no accidental death benefit payable.

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

All Members. 3 years of creditable service.

A percentage grading from $20 \%$ after 3 years to $100 \%$ after 7 years, of 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.

A percentage grading from $20 \%$ after 3 years to $100 \%$ after 7 years, of 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

Amount of Benefit

## Offsets on Benefits

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

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

## Contributions

By Members

Class A

Class B
By City
10.8\% of earnable compensation for the first 35 years of creditable service, none thereafter.
3.0\% of earnable compensation.

Remainder necessary to fund for the benefits of the System on an actuarial basis.

## SCHEDULE D

TABLE 1
THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY AGE AS OF JUNE 30, 2011

## CLASS A MEMBERS

MALE

| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| ---: | ---: | ---: | ---: | ---: |
| 22 |  |  |  |  |
| 23 | 1 | $\$ 42,173$ | 1 | $\$ 48,452$ |
| 24 | 4 | 178,863 |  |  |
| 25 | 4 | 182,044 | 1 | 48,231 |
| 26 | 3 | 133,334 | 3 | 147,325 |
| 27 | 4 | 188,568 | 1 | 48,231 |
| 28 | 6 | 286,495 | 1 | 48,231 |
| 29 | 3 | 152,466 | 1 | 53,515 |
| 30 | 7 | 336,513 |  |  |
| 31 | 10 | 521,108 | 2 | 104,339 |
| 32 | 6 | 322,285 | 3 | 107,788 |
| 33 | 6 | 299,492 |  |  |
| 34 | 4 | 236,869 |  |  |
| 35 | 5 | 295,505 |  |  |
| 36 | 7 | 407,574 |  |  |
| 37 | 8 | 446,597 | 1 | 50,988 |
| 38 | 5 | 285,911 |  |  |
| 39 | 6 | 353,892 | 1 | 27,071 |
| 40 | 3 | 174,959 |  |  |
| 41 | 7 | 458,959 |  |  |
| 42 | 11 | 703,125 |  |  |
| 43 | 4 | 230,451 | 1 | 78,961 |
| 44 | 8 | 532,090 |  |  |
| 45 | 5 | 348,743 | 1 | 66,531 |
| 46 | 3 | 189,827 | 1 | 78,971 |
| 47 | 4 | 252,811 |  |  |
| 48 | 3 | 213,735 |  |  |
| 49 | 3 | 202,972 | 72,921 | 1 |

TABLE 1

THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED

BY AGE AS OF JUNE 30, 2011

## CLASS A MEMBERS

(CONTINUED)

|  | MALE |  | FEMALE |  |
| :---: | ---: | ---: | ---: | ---: |
| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
|  |  |  | 1 | $\$ 62,536$ |
| 55 |  |  |  |  |
| 57 | 1 | $\$ 79,833$ |  |  |
| 60 | 1 | 58,554 |  |  |
| 63 | 1 | 78,971 |  |  |
| 64 | 1 | 62,481 |  |  |
|  |  |  | 20 | $\$ 1,036,020$ |

TABLE 2

THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED

BY AGE AS OF JUNE 30, 2011

## CLASS B MEMBERS

MALE

| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |
| 20 | 2 | $\$ 57,535$ | 1 | $\$ 17,880$ |
| 21 | 1 | 28,295 |  |  |
| 22 | 1 | 38,624 | 1 | 41,817 |
| 23 | 4 | 109,957 | 1 | 19,250 |
| 24 | 3 | 128,093 | 2 | 64,036 |
| 25 | 3 | 105,635 | 4 | 95,949 |
| 26 | 4 | 199,663 | 2 | 86,597 |
| 27 | 6 | 167,450 | 5 | 136,659 |
| 28 | 3 | 131,551 | 2 | 72,183 |
| 29 | 5 | 206,198 | 3 | 80,396 |
| 30 | 6 | 296,380 | 6 | 213,966 |
| 31 | 9 | 426,118 | 4 | 215,075 |
| 32 | 4 | 204,103 | 4 | 168,793 |
| 33 | 3 | 186,999 | 8 | 383,767 |
| 34 | 7 | 353,765 | 7 | 358,476 |
| 35 | 8 | 332,373 | 2 | 92,755 |
| 36 | 3 | 156,625 | 3 | 151,896 |
| 37 | 7 | 317,707 | 5 | 173,595 |
| 38 | 6 | 310,638 | 2 | 68,240 |
| 39 | 3 | 120,610 | 7 | 381,414 |
| 40 | 9 | 434,009 | 6 | 262,627 |
| 41 | 12 | 558,623 | 5 | 226,775 |
| 42 | 10 | 537,425 | 3 | 124,551 |
| 43 | 10 | 575,814 | 3 | 138,681 |
| 44 | 8 | 490,607 | 5 | 217,283 |
| 45 | 8 | 415,773 | 10 | 451,379 |
| 46 | 4 | 232,101 | 7 | 282,959 |
| 47 | 10 | 625,195 | 4 | 171,738 |
| 48 | 13 | 696,631 | 11 | 402,982 |
| 49 | 23 | $1,390,912$ | 10 | 483,015 |
| 50 | 13 | 713,748 | 3 | 127,024 |
| 51 | 17 | 920,602 | 15 | 770,148 |
| 52 | 15 | 906,991 | 11 | 496,708 |
| 53 | 7 | 479,000 | 11 | 518,550 |
| 4 |  |  |  |  |

TABLE 2

THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED

BY AGE AS OF JUNE 30, 2011

## CLASS B MEMBERS

 (CONTINUED)
## MALE

| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| :---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |
| 54 | 16 | $\$ 917,599$ | 13 | $\$ 513,321$ |
| 55 | 12 | 629,503 | 7 | 312,988 |
| 56 | 13 | 814,306 | 14 | 649,032 |
| 57 | 16 | $1,026,842$ | 2 | 82,102 |
| 58 | 11 | 647,577 | 8 | 311,632 |
| 59 | 16 | $1,003,402$ | 8 | 400,317 |
| 60 | 16 | 924,058 | 10 | 440,561 |
| 61 | 9 | 456,368 | 7 | 347,746 |
| 62 | 12 | 662,885 | 8 | 332,224 |
| 63 | 10 | 655,735 | 8 | 424,795 |
| 64 | 5 | 260,406 | 1 | 43,876 |
| 65 | 8 | 371,900 | 3 | 153,961 |
| 66 | 2 | 87,841 | 1 | 129,080 |
| 67 | 1 | 56,474 |  |  |
| 68 | 1 | 52,328 |  |  |
| 69 |  |  | 1 | 36,935 |
| 70 | 2 | 119,608 |  |  |
|  |  |  |  |  |
| TOTAL | 397 | $\$ 21,542,582$ | 264 | $\$ 11,675,734$ |

TABLE 3
THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY YEARS OF SERVICE* AS OF JUNE 30, 2011

| CLASS A MEMBERS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| YEARS | MALE |  | FEMALE |  |
| OF |  |  |  |  |
| SERVICE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| 0 | 12 | \$557,585 | 4 | \$182,564 |
| 1 | 6 | 266,731 |  |  |
| 2 | 8 | 363,269 | 4 | 192,926 |
| 3 | 10 | 494,451 | 3 | 150,791 |
| 4 | 6 | 283,672 | 1 | 53,515 |
| 5 | 2 | 96,762 | 1 | 21,297 |
| 6 | 5 | 272,096 |  |  |
| 7 | 6 | 328,480 | 1 | 56,007 |
| 8 | 4 | 226,555 |  |  |
| 9 | 13 | 718,871 | 1 | 66,531 |
| 10 | 7 | 399,249 |  |  |
| 11 | 9 | 518,435 |  |  |
| 12 | 9 | 565,120 | 1 | 62,536 |
| 13 | 9 | 526,001 |  |  |
| 14 | 4 | 249,438 |  |  |
| 15 | 4 | 273,888 |  |  |
| 16 | 6 | 375,328 |  |  |
| 17 |  |  | 1 | 27,071 |
| 18 | 4 | 318,694 |  |  |
| 19 | 1 | 60,466 |  |  |
| 20 | 2 | 121,893 | 1 | 78,961 |
| 21 | 4 | 257,222 | 1 | 78,971 |
| 22 | 8 | 610,372 |  |  |
| 23 |  |  | 1 | 64,850 |
| 24 | 5 | 334,829 |  |  |
| 25 | 2 | 117,747 |  |  |
| 27 | 2 | 159,095 |  |  |
| 30 | 1 | 78,971 |  |  |
| 31 | 1 | 79,833 |  |  |
| 40 | 1 | 62,481 |  |  |
| TOTAL | 151 | \$8,717,534 | 20 | \$1,036,020 |

TABLE 4

THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY YEARS OF SERVICE* AS OF JUNE 30, 2011

| CLASS B MEMBERS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| YEARS OF | MALE |  | FEMALE |  |
|  |  |  |  |  |
| SERVICE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| 0 | 29 | \$953,922 | 27 | \$817,573 |
| 1 | 22 | 1,155,431 | 26 | 906,958 |
| 2 | 26 | 1,259,345 | 13 | 599,675 |
| 3 | 28 | 1,503,089 | 17 | 650,308 |
| 4 | 20 | 1,073,490 | 17 | 827,872 |
| 5 | 19 | 1,021,230 | 16 | 563,887 |
| 6 | 15 | 691,103 | 11 | 430,168 |
| 7 | 14 | 659,062 | 6 | 193,449 |
| 8 | 16 | 754,432 | 14 | 698,726 |
| 9 | 11 | 570,622 | 6 | 206,720 |
| 10 | 20 | 1,010,674 | 14 | 791,017 |
| 11 | 5 | 220,228 | 10 | 434,945 |
| 12 | 19 | 982,699 | 12 | 589,536 |
| 13 | 7 | 506,179 | 6 | 236,264 |
| 14 | 8 | 421,542 | 8 | 360,008 |
| 15 | 9 | 584,636 | 4 | 168,984 |
| 16 | 12 | 641,575 | 12 | 623,442 |
| 17 | 4 | 239,103 | 1 | 60,690 |
| 18 | 3 | 317,911 | 2 | 63,811 |
| 19 | 1 | 50,103 | 1 | 49,756 |
| 20 | 7 | 417,407 | 1 | 57,669 |
| 21 | 5 | 307,590 | 3 | 171,356 |
| 22 | 5 | 333,280 | 1 | 55,106 |
| 23 | 8 | 512,046 | 6 | 348,768 |
| 24 | 6 | 357,267 | 4 | 253,653 |
| 25 | 4 | 412,077 | 2 | 133,603 |
| 26 | 3 | 163,814 | 3 | 139,520 |
| 27 | 15 | 921,719 | 2 | 117,723 |
| 28 | 8 | 451,971 | 1 | 57,070 |
| 29 | 5 | 293,959 | 3 | 169,933 |
| 30 | 7 | 514,829 | 2 | 91,847 |
| 31 | 8 | 494,065 |  |  |
| 32 | 10 | 608,514 | 2 | 127,609 |
| 33 | 5 | 351,647 | 3 | 164,158 |

TABLE 4
THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY YEARS OF SERVICE* AS OF JUNE 30, 2011

## CLASS B MEMBERS

 (CONTINUED)| YEARS <br> OF | MALE |  | FEMALE |  |
| :---: | ---: | ---: | ---: | ---: | ---: |
| SERVICE |  |  |  |  | NUMBER | AMOUNT | NUMBER |
| :---: | ---: | AMOUNT

[^1]TABLE 5

## THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF RETIREES DISTRIBUTED <br> BY AGE AS OF JUNE 30, 2011

## CLASS A MEMBERS

SERVICE RETIREMENTS

|  | MALE |  | FEMALE |  |
| :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| 45 | 1 | \$44,092 |  |  |
| 46 | 2 | 82,487 |  |  |
| 47 | 3 | 126,825 |  |  |
| 48 | 2 | 91,439 |  |  |
| 49 | 4 | 156,579 |  |  |
| 50 | 4 | 149,602 |  |  |
| 51 | 3 | 178,295 | 1 | \$30,952 |
| 52 | 4 | 146,465 |  |  |
| 53 | 3 | 141,813 |  |  |
| 54 | 7 | 226,093 |  |  |
| 55 | 6 | 242,122 |  |  |
| 56 | 4 | 182,736 |  |  |
| 57 | 4 | 196,320 |  |  |
| 58 | 1 | 28,572 |  |  |
| 59 | 5 | 196,243 |  |  |
| 60 | 3 | 126,108 |  |  |
| 61 | 6 | 213,292 | 1 | 8,121 |
| 62 | 9 | 282,563 |  |  |
| 63 | 5 | 127,953 |  |  |
| 64 | 6 | 219,138 |  |  |
| 65 | 4 | 126,589 |  |  |
| 66 | 4 | 137,359 |  |  |
| 67 | 3 | 105,128 |  |  |
| 68 | 8 | 279,351 |  |  |
| 69 | 2 | 75,459 |  |  |
| 70 | 3 | 88,074 |  |  |
| 71 | 2 | 53,929 |  |  |
| 72 | 2 | 20,044 |  |  |
| 75 | 1 | 43,668 |  |  |
| 76 | 1 | 39,599 |  |  |
| 77 | 1 | 32,704 |  |  |
| 78 | 1 | 25,961 |  |  |

TABLE 5
THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF RETIREES DISTRIBUTED

BY AGE AS OF JUNE 30, 2011

## CLASS A MEMBERS

SERVICE RETIREMENTS
(CONTINUED)
MALE FEMALE

| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| :---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |
| 80 | 1 | $\$ 25,434$ |  |  |
| 81 | 2 | 41,875 |  |  |
| 82 | 3 | 64,400 |  |  |
| 85 | 1 | 27,997 |  |  |
| 86 | 1 | 20,975 |  |  |
|  |  |  | 2 | $\$ 39,073$ |

TABLE 6

# THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF RETIREES DISTRIBUTED BY AGE AS OF JUNE 30, 2011 

## CLASS B MEMBERS

## SERVICE RETIREMENTS

MALE

| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| :---: | :---: | :---: | :---: | :---: |
| 55 | 1 | \$17,178 |  |  |
| 56 | 1 | 9,981 | 2 | \$25,842 |
| 57 | 2 | 44,812 | 1 | 25,246 |
| 58 | 2 | 28,599 | 2 | 23,611 |
| 59 | 3 | 81,420 | 1 | 3,818 |
| 60 | 4 | 83,436 | 2 | 34,509 |
| 61 | 4 | 71,581 | 2 | 12,390 |
| 62 | 12 | 221,941 | 4 | 63,087 |
| 63 | 3 | 66,075 | 4 | 34,766 |
| 64 | 5 | 37,197 |  |  |
| 65 | 11 | 146,634 | 7 | 46,007 |
| 66 | 6 | 85,203 | 4 | 6,629 |
| 67 | 4 | 73,155 | 3 | 19,343 |
| 68 | 6 | 53,235 | 5 | 41,484 |
| 69 | 10 | 152,836 | 10 | 151,200 |
| 70 | 7 | 107,182 | 10 | 164,047 |
| 71 | 6 | 110,708 | 5 | 81,684 |
| 72 | 5 | 89,585 | 2 | 27,039 |
| 73 | 5 | 29,524 | 3 | 16,674 |
| 74 | 11 | 186,448 | 3 | 57,412 |
| 75 | 2 | 39,475 | 5 | 84,902 |
| 76 | 6 | 85,823 | 4 | 20,806 |
| 77 | 5 | 27,172 | 6 | 49,754 |
| 78 | 2 | 34,028 | 3 | 14,768 |
| 79 | 5 | 62,912 | 1 | 20,950 |
| 80 | 3 | 43,288 | 3 | 29,399 |
| 81 | 3 | 47,860 | 5 | 10,113 |
| 82 | 1 | 7,014 | 4 | 75,709 |
| 83 | 1 | 8,089 | 1 | 419 |
| 84 | 1 | 13,174 |  |  |
| 85 | 4 | 41,555 | 1 | 10,916 |
| 86 | 1 | 5,316 | 1 | 11,599 |

TABLE 6
THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF RETIREES DISTRIBUTED BY AGE AS OF JUNE 30, 2011

## CLASS B MEMBERS

SERVICE RETIREMENTS
(CONTINUED)
MALE FEMALE

| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| :---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |
| 87 | 1 | $\$ 2,994$ | 1 | $\$ 1,916$ |
| 88 |  |  | 1 | 2,190 |
| 89 | 1 | 3,993 |  |  |
| 90 |  |  | 2 | 8,975 |
| 91 |  |  | 1 | 10,561 |
| 93 | 1 | 11,605 | 1 | 7,248 |
| 97 | 145 | $\$ 2,131,028$ | 110 | $\$ 1,195,013$ |

TABLE 7
THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF RETIREES DISTRIBUTED BY AGE AS OF JUNE 30, 2011

## CLASS A MEMBERS

## DISABILITY RETIREMENTS

|  | MALE |  | FEMALE |  |
| :---: | ---: | ---: | ---: | ---: |
| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
|  |  |  |  |  |
| 44 | 1 | $\$ 34,800$ |  |  |
| 49 | 1 | 27,013 |  |  |
| 65 | 1 | 15,602 |  |  |
| 79 | 1 | 16,533 |  |  |
| 80 | 1 | 16,512 |  |  |
| TOTAL | 5 | $\$ 110,460$ |  |  |

TABLE 8

## THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF RETIREES DISTRIBUTED BY AGE AS OF JUNE 30, 2011 <br> CLASS B MEMBERS DISABILITY RETIREMENTS

| MALE |  |  |  | FEMALE |  |
| :---: | ---: | ---: | ---: | ---: | :---: |
| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |  |
|  |  |  |  |  |  |
| 47 | 1 | $\$ 7,007$ |  |  |  |
| 48 |  |  | 1 | $\$ 10,793$ |  |
| 50 | 1 | 6,037 |  |  |  |
| 51 | 1 | 13,224 | 2 | 37,285 |  |
| 52 | 1 | 7,966 |  |  |  |
| 53 | 2 | 43,389 | 1 | 15,509 |  |
| 54 | 1 | 23,099 |  |  |  |
| 55 | 1 | 9,282 |  |  |  |
| 56 | 1 | 6,956 |  |  |  |
| 57 | 1 | 8,496 | 1 | 23,267 |  |
| 58 | 1 | 13,640 |  |  |  |
| 59 | 3 | 32,386 | 1 | 5,010 |  |
| 60 | 3 | 29,597 |  |  |  |
| 61 | 2 | 24,394 | 4 | 57,851 |  |
| 62 | 2 | 27,291 | 1 | 11,618 |  |
| 63 | 4 | 51,237 |  |  |  |
| 81 | 1 | 5,540 |  |  |  |
| 84 | 1 | 5,463 |  |  |  |
|  |  |  |  |  |  |
| TOTAL | 27 | $\$ 315,004$ | 11 | $\$ 161,333$ |  |

TABLE 9
THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF BENEFICIARIES OF RETIREES DISTRIBUTED BY AGE AS OF JUNE 30, 2011

## CLASS A MEMBERS

## BENEFICIARIES OF DECEASED MEMBERS

MALE FEMALE

| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| :---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |
| 16 | 1 | $\$ 15,819$ |  |  |
| 19 |  |  | 1 | $\$ 7,236$ |
| 47 |  |  | 1 | 47,643 |
| 53 |  |  | 1 | 6,782 |
| 55 |  |  | 1 | 8,499 |
| 59 |  |  | 1 | 6,916 |
| 67 |  |  | 1 | 16,208 |
| 68 |  |  | 1 | 9,132 |
| 69 |  |  | 2 | 48,670 |
| 70 |  |  | 1 | 11,359 |
| 76 |  |  | 1 | 17,908 |
| 82 |  |  | 1 | 12,814 |
| 84 |  |  | 1 | 15,468 |
| 89 |  |  | 1 | 17,431 |

$\begin{array}{lllll}\text { TOTAL } & 1 & \$ 15,819 & 14 & \$ 226,066\end{array}$

TABLE 10
THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF BENEFICIARIES OF RETIREES DISTRIBUTED BY AGE AS OF JUNE 30, 2011

## CLASS B MEMBERS

## BENEFICIARIES OF DECEASED MEMBERS

MALE FEMALE

| AGE | NUMBER | AMOUNT | NUMBER | AMOUNT |
| :---: | :---: | :---: | :---: | :---: |
| 26 |  |  | 1 | \$1,023 |
| 28 | 1 | \$1,363 |  |  |
| 46 |  |  | 1 | 6,398 |
| 49 | 1 | 9,480 | 1 | 11,875 |
| 57 | 1 | 12,774 |  |  |
| 58 |  |  | 2 | 16,667 |
| 59 |  |  | 2 | 5,921 |
| 60 | 1 | 11,709 | 1 | 10,346 |
| 62 |  |  | 2 | 15,450 |
| 63 |  |  | 2 | 8,163 |
| 64 |  |  | 1 | 30,821 |
| 65 |  |  | 1 | 4,536 |
| 67 |  |  | 1 | 2,237 |
| 68 |  |  | 2 | 26,621 |
| 69 |  |  | 2 | 10,685 |
| 70 |  |  | 1 | 8,108 |
| 71 |  |  | 4 | 34,995 |
| 72 |  |  | 2 | 13,496 |
| 73 |  |  | 1 | 4,448 |
| 74 |  |  | 2 | 10,561 |
| 76 |  |  | 2 | 9,315 |
| 77 |  |  | 1 | 1,944 |
| 78 |  |  | 1 | 4,034 |
| 79 |  |  | 3 | 26,062 |
| 80 |  |  | 1 | 3,078 |
| 81 | 1 | 1,429 | 2 | 7,306 |
| 83 |  |  | 1 | 10,595 |
| 84 |  |  | 1 | 2,866 |
| 85 | 1 | 6,697 |  |  |
| 86 |  |  | 1 | 10,021 |
| 87 |  |  | 1 | 6,670 |
| 88 |  |  | 1 | 3,334 |

TABLE 11
THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF SERVICE RETIREMENTS DISTRIBUTED BY FORM OF ANNUITY AS OF JUNE 30, 2011

## CLASS A MEMBERS

MALE
NUMBER AMOUNT NUMBER AMOUNT

| FORM | NUMBER | AMOUNT | NUMBER | AMOUNT |
| :--- | ---: | ---: | :---: | ---: |
|  |  |  |  |  |
| LIFE ANNUITY | 63 | $\$ 2,485,924$ | 1 | $\$ 30,952$ |
| CERTAIN \& LIFE | 18 | 628,152 |  |  |
| JOINT \& SURVIVOR | 34 | $1,005,566$ | 1 | 8,121 |
| J\&S POP-UP | 7 | 247,641 |  |  |
|  |  |  |  |  |
| TOTAL | 122 | $\$ 4,367,283$ | 2 | $\$ 39,073$ |

TABLE 12
THE NUMBER OF RETIREES, DISABLED RETIREES AND BENEFICIARIES DISTRIBUTED BY COLA TYPE AS OF JUNE 30, 2011

## CLASS A MEMBERS

| COLA TYPE | MALE | FEMALE |
| :--- | ---: | ---: |
| NO COLA | 67 | 2 |
| HALF COLA | 10 | 1 |
| FULL COLA | 51 | 13 |
| TOTAL | 128 | 16 |

TABLE 13
THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF SERVICE RETIREMENTS DISTRIBUTED BY FORM OF ANNUITY AS OF JUNE 30, 2011

## CLASS B MEMBERS

MALE
FEMALE

| FORM | NUMBER | AMOUNT | NUMBER | AMOUNT |
| :--- | ---: | ---: | ---: | ---: |
|  |  |  |  |  |
| LIFE ANNUITY | 61 | $\$ 832,655$ | 81 | $\$ 941,031$ |
| CERTAIN \& LIFE | 18 | 234,685 | 14 | 145,866 |
| JOINT \& SURVIVOR | 48 | 719,798 | 12 | 85,373 |
| J\&S POP-UP | 18 | 343,890 | 3 | 22,743 |
|  |  |  |  |  |
| TOTAL | 145 | $\$ 2,131,028$ | 110 | $\$ 1,195,013$ |

TABLE 14
THE NUMBER OF RETIREES, DISABLED RETIREES, AND BENEFICIARIES DISTRIBUTED BY COLA TYPE AS OF JUNE 30, 2011

## CLASS B MEMBERS

| COLA TYPE | MALE | FEMALE |
| :--- | ---: | ---: |
| NO COLA | 82 | 65 |
| HALF COLA | 11 | 8 |
| FULL COLA | 85 | 92 |
| TOTAL | 169 | 156 |

## SCHEDULE E

# BURLINGTON EMPLOYEES' RETIREMENT SYSTEM <br> PAST SERVICE AMORTIZATION SCHEDULE 

## CLASS A EMPLOYEES

FY 2013

Equivalent Single Amortization Period

CLASS B EMPLOYEES


## SCHEDULE F

## Burlington Employees' Retirement System Historical and Projected Contributions

## Class A \& B Employees

| Fiscal Year Ending | Projected Payroll | Normal Contribution |  | Past Service <br> Contribution | Contribution Shortfall | Total City Contribution |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| June 30, 2005 | \$31,374,680 | \$3,934,287 | 12.5\% | \$628,824 | (\$1,596,290) | \$2,966,821 | 9.5\% |
| June 30, 2006 | 33,190,245 | 3,782,704 | 11.4\% | 905,446 | $(756,403)$ | 3,931,747 | 11.8\% |
| June 30, 2007 | 34,384,729 | 3,916,950 | 11.4\% | 2,259,664 | 683,638 | 6,860,252 | 20.0\% |
| June 30, 2008 | 35,588,195 | 3,037,864 | 8.5\% | 2,929,190 | $(256,122)$ | 5,710,932 | 16.0\% |
| June 30, 2009 | 36,833,782 | 3,073,086 | 8.3\% | 2,851,003 | $(48,794)$ | 5,875,295 | 16.0\% |
| June 30, 2010 | 40,328,362 | 3,297,021 | 8.2\% | 2,455,550 | 0 | 5,752,571 | 14.3\% |
| June 30, 2011 | 42,563,572 | 3,097,259 | 7.3\% | 3,681,967 | 0 | 6,779,226 | 15.9\% |
| June 30, 2012 | 43,148,038 | 3,045,975 | 7.1\% | 4,501,979 |  | 7,547,954 | 17.5\% |
| June 30, 2013 | 43,477,161 | 3,083,144 | 7.1\% | 5,092,361 |  | 8,175,505 | 18.8\% |
| June 30, 2014 | 44,998,862 | 3,191,054 | 7.1\% | 5,092,361 |  | 8,283,415 | 18.4\% |
| June 30, 2015 | 46,573,822 | 3,302,741 | 7.1\% | 5,092,361 |  | 8,395,102 | 18.0\% |
| June 30, 2016 | 48,203,906 | 3,418,337 | 7.1\% | 5,092,361 |  | 8,510,698 | 17.7\% |

Notes:
No future liability gains or losses are assumed; assets are assumed to earn $8 \%$ per annum.
Projected payroll assumed to increase $3.5 \%$ per annum.
Unfunded liability as of June 30, 2004, was amortized over 30 years.
All future changes in unfunded liability will be amortized over 30 years.

## SCHEDULE F

## Burlington Employees' Retirement System Historical and Projected Contributions

Class A Employees

| Fiscal Year Ending | Projected Payroll | Normal Contribution |  | Past Service <br> Contribution | Contribution <br> Shortfall | Total City Contribution |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| June 30, 2005 | \$8,169,478 | \$1,604,485 | 19.6\% | \$241,703 | $(\$ 646,497)$ | \$1,199,691 | 14.7\% |
| June 30, 2006 | 8,341,093 | 1,404,640 | 16.8\% | 333,297 | $(306,343)$ | 1,431,594 | 17.2\% |
| June 30, 2007 | 8,932,223 | 1,501,507 | 16.8\% | 998,999 | 276,873 | 2,777,379 | 31.1\% |
| June 30, 2008 | 9,244,851 | 1,306,993 | 14.1\% | 1,220,155 | $(103,729)$ | 2,423,419 | 26.2\% |
| June 30, 2009 | 9,568,421 | 1,233,492 | 12.9\% | 1,055,533 | 0 | 2,289,025 | 23.9\% |
| June 30, 2010 | 9,412,887 | 1,150,199 | 12.2\% | 1,123,981 | 0 | 2,274,180 | 24.2\% |
| June 30, 2011 | 9,478,375 | 955,410 | 10.1\% | 1,441,355 | 0 | 2,396,765 | 25.3\% |
| June 30, 2012 | 9,505,863 | 932,642 | 9.8\% | 1,822,213 |  | 2,754,855 | 29.0\% |
| June 30, 2013 | 9,440,369 | 991,311 | 10.5\% | 2,159,631 |  | 3,150,942 | 33.4\% |
| June 30, 2014 | 9,770,782 | 1,026,007 | 10.5\% | 2,159,631 |  | 3,185,638 | 32.6\% |
| June 30, 2015 | 10,112,759 | 1,061,917 | 10.5\% | 2,159,631 |  | 3,221,548 | 31.9\% |
| June 30, 2016 | 10,466,706 | 1,099,084 | 10.5\% | 2,159,631 |  | 3,258,715 | 31.2\% |

## Notes:

No future liability gains or losses are assumed; assets are assumed to earn $8 \%$ per annum.
Projected payroll assumed to increase $3.5 \%$ per annum.
Unfunded liability as of June 30, 2004, was amortized over 30 years.
All future changes in unfunded liability will be amortized over 30 years.

## SCHEDULE F

## Burlington Employees' Retirement System Historical and Projected Contributions

Class B Employees

| Fiscal Year Ending | Projected Payroll | Normal Contribution |  | Past Service <br> Contribution | Contribution Shortfall | Total City Contribution |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| June 30, 2005 | \$23,205,202 | \$2,329,802 | 10.0\% | \$387,121 | $(\$ 949,793)$ | \$1,767,130 | 7.6\% |
| June 30, 2006 | 24,849,152 | 2,378,064 | 9.6\% | 572,149 | $(450,060)$ | 2,500,153 | 10.1\% |
| June 30, 2007 | 25,452,506 | 2,415,443 | 9.5\% | 1,260,665 | 406,765 | 4,082,873 | 16.0\% |
| June 30, 2008 | 26,343,344 | 1,730,871 | 6.6\% | 1,709,035 | $(152,393)$ | 3,287,513 | 12.5\% |
| June 30, 2009 | 27,265,361 | 1,839,594 | 6.7\% | 1,795,470 | $(48,794)$ | 3,586,270 | 13.2\% |
| June 30, 2010 | 30,915,475 | 2,146,822 | 6.9\% | 1,331,569 | 0 | 3,478,391 | 11.3\% |
| June 30, 2011 | 33,085,197 | 2,141,849 | 6.5\% | 2,240,612 | 0 | 4,382,461 | 13.2\% |
| June 30, 2012 | 33,642,175 | 2,113,333 | 6.3\% | 2,679,766 |  | 4,793,099 | 14.2\% |
| June 30, 2013 | 34,036,792 | 2,091,833 | 6.1\% | 2,932,730 |  | 5,024,563 | 14.8\% |
| June 30, 2014 | 35,228,080 | 2,165,047 | 6.1\% | 2,932,730 |  | 5,097,777 | 14.5\% |
| June 30, 2015 | 36,461,063 | 2,240,824 | 6.1\% | 2,932,730 |  | 5,173,554 | 14.2\% |
| June 30, 2016 | 37,737,200 | 2,319,253 | 6.1\% | 2,932,730 |  | 5,251,983 | 13.9\% |

Notes:
No future liability gains or losses are assumed; assets are assumed to earn 8\% per annum.
Projected payroll assumed to increase $3.5 \%$ per annum.
Unfunded liability as of June 30, 2004, was amortized over 30 years.
All future changes in unfunded liability will be amortized over 30 years.

## SCHEDULE G

## Burlington Employees' Retirement System

## Annual Amortization of the Unfunded Past Service Liability

|  | Beginning of FY <br> Balance of | Amortization <br> Piscal Year <br> Unfunded Liability <br> Fiscal Year <br> 2012 |
| ---: | ---: | ---: |
| 2013 | $\$ 55,099,233$ | $\$ 4,501,979$ |
| 2014 | $\$ 55,005,193$ | $\$ 5,092,361$ |
| 2015 | $\$ 54,313,247$ | $\$ 5,092,361$ |
| 2016 | $\$ 53,565,946$ | $\$ 5,092,361$ |
| 2017 | $\$ 52,758,861$ | $\$ 5,092,361$ |
| 2018 | $\$ 51,887,209$ | $\$ 5,092,361$ |
| 2019 | $\$ 50,945,825$ | $\$ 5,092,361$ |
| 2020 | $\$ 49,929,130$ | $\$ 5,092,361$ |
| 2021 | $\$ 48,831,099$ | $\$ 5,092,361$ |
| 2022 | $\$ 47,645,226$ | $\$ 5,092,361$ |
| 2023 | $\$ 46,364,483$ | $\$ 5,092,361$ |
| 2024 | $\$ 44,981,281$ | $\$ 5,092,361$ |
| 2025 | $\$ 43,487,423$ | $\$ 5,092,361$ |
| 2026 | $\$ 41,874,056$ | $\$ 5,092,361$ |
| 2027 | $\$ 40,131,620$ | $\$ 5,092,361$ |
| 2028 | $\$ 38,249,789$ | $\$ 5,092,361$ |
| 2029 | $\$ 36,217,411$ | $\$ 5,092,361$ |
| 2030 | $\$ 34,022,443$ | $\$ 5,092,361$ |
| 2031 | $\$ 31,651,878$ | $\$ 5,092,361$ |
| 2032 | $\$ 29,091,667$ | $\$ 5,092,361$ |
| 2033 | $\$ 26,326,639$ | $\$ 5,092,361$ |
| 2034 | $\$ 23,340,409$ | $\$ 5,092,361$ |
| 2035 | $\$ 20,115,281$ | $\$ 5,092,361$ |
| 2036 | $\$ 16,632,143$ | $\$ 5,092,361$ |
| 2037 | $\$ 12,870,354$ | $\$ 4,186,915$ |
| 2038 | $\$ 9,713,067$ | $\$ 2,899,888$ |
| 2039 | $\$ 7,590,224$ | $\$ 2,163,171$ |
| 2040 | $\$ 6,034,271$ | $\$ 2,397,674$ |
| 2041 | $\$ 4,119,339$ | $\$ 2,636,811$ |
| 2042 | $\$ 1,812,075$ | $\$ 1,410,391$ |
| 2043 | $\$ 546,650$ | $\$ 590,384$ |
|  | $\$ 0$ |  |
| 2 |  |  |


[^0]:    ${ }^{1}$ Also known as "past service liability."

[^1]:    * Excludes service adjustment for employees with a regularly assigned workweek of 53 or more weeks.

