## Cavanaugh Macdonald

CONSULTING, LLC



CONNECTICUT STATE EMPLOYEES RETIREMENT SYSTEM

REPORT OF THE ACTUARY ON THE VALUATION PREPARED AS OF JUNE 30, 2011

Cavanaugh Macdonald

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February 8, 2012

State of Connecticut
State Employees Retirement Commission
55 Elm Street
Hartford, CT 06106

Members of the Commission:
Connecticut General Statutes Section 5-155a governs the operation of the Connecticut State Employees Retirement System (SERS). The actuary makes periodic valuations of the contingent assets and liabilities of the Retirement System at the direction of the Commission. We have submitted the report giving the results of the actuarial valuation of the Retirement System prepared as of June 30, 2011. This report is requested to update the contribution calculations as determined in the June 30, 2010 actuarial valuation. The report indicates that annual employer contributions at the rate of $28.86 \%$ of compensation for the fiscal year ending June 30, 2012 are sufficient to support the benefits of the System.

In preparing the valuation, the actuary relied on data provided by the Comptroller's Office. While not verifying data at the source, the actuary performed tests for consistency and reasonableness. This valuation also includes changes to the plan provisions as contained in the Revised 2011 SEBAC Agreement. Further, we reviewed and incorporated additional data pertaining to retirements that occurred after June 30, 2011 through October 1, 2011 that were largely due to the SEBAC Agreement.

The System is funded on an actuarial reserve basis. The actuarial assumptions recommended by the actuary and adopted by the Board are reasonably related to the experience under the System and to reasonable expectations of anticipated experience under the System. The assumptions and methods used for funding purposes meet the parameters set for the disclosures presented in the financial section by Governmental Accounting Standards Board (GASB) Statement Nos. 25 and 27. The funding objective of the plan is that contribution rates over time will remain level as a percent of payroll. The valuation method used is the projected unit credit method. Gains and losses are reflected in the unfunded accrued liability which is being amortized as a level percent of payroll within a 20 -year period. This period is based on the funding policy of SERS that amortizes the unfunded accrued liability over a declining period of years, starting with 40 years as of July 1, 1991.

This is to certify that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the retirement system and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the System.

## Members of the Commission

February 8, 2012
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Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; 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. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

The undersigned meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Sincerely yours,


Thomas J. Cavanaugh, FSA, FCA, MAAA, EA
Chief Executive Officer


John J. Garrett, ASA, FCA, MAAA
Principal and Consulting Actuary


Edward J. Koebel, FCA, MAAA, EA
Principal and Consulting Actuary
TJC/KC

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## CONNECTICUT STATE EMPLOYEES RETIREMENT SYSTEM REPORT OF THE ACTUARY <br> ON THE VALUATION <br> PREPARED AS OF JUNE 30, 2011

## SECTION I-SUMMARY OF PRINCIPAL RESULTS

1. As the purpose of the June 30, 2011 actuarial valuation is to update the contribution calculations from those determined in the June 30, 2010 actuarial valuation, we determine the contribution amounts for the same fiscal years as determined in that valuation. For convenience of reference, the principal results of the current and preceding valuations are summarized below:

| Valuation Date | June 30, 2011 | June 30, 2010 |
| :---: | :---: | :---: |
| Number of active members | 47,778 | 50,064 |
| Annual compensation | \$ 3,210,665,659 | \$ 3,295,665,691 |
| Retired members and beneficiaries: |  |  |
| Number | 44,051 | 41,782 |
| Annual allowances | \$ 1,391,091,420 | \$ 1,264,025,423 |
| Deferred Vested Members: |  |  |
| Number | 1,589 | 1,602 |
| Annual allowances | \$ 23,237,927 | \$ 24,526,551 |
| Assets: |  |  |
| Market Value | \$ 8,984,875,027 | \$ 7,791,337,413 |
| Actuarial Value | \$ 10,122,765,430 | \$ 9,349,604,896 |
| Unfunded actuarial accrued liability | \$ 11,003,960,062 | \$ 11,704,591,788 |
| Amortization period (years) | 20 | 21 |
| Funded Ratio | 47.9\% | 44.4\% |
| For Fiscal Year Ending | June 30, 2012 | June 30, 2012 |
| Annual Required Employer Contribution (ARC): |  |  |
| Normal | \$ 229,111,675 | \$ 296,567,797 |
| Accrued liability | 697,260,027 | 726,883,275 |
| Total | \$ 926,371,702 | \$ 1,023,451,072 |
| Annual Required Employer Contribution Rates (ARC): |  |  |
| Normal | 7.14\% | 9.00\% |
| Accrued liability | 21.72\% | 22.06\% |
| Total | 28.86\% | 31.06\% |

2. All amounts shown that were developed as a result of valuations prior to June 30, 2010 were developed and/or reported by the prior actuarial firm. The results of the valuation are given in Schedule A.
3. Comments on the valuation results are given in Section IV, comments on the experience and actuarial gains and losses during the valuation year are given in Section VII and the rates of contribution payable by employers are given in Section V .

There were no changes made to the actuarial assumptions or actuarial methods as presented in the last valuation. However, this valuation includes changes to the plan provisions as contained in the Revised 2011 SEBAC Agreement and recommends an additional assumption concerning the COLA rate of increase provided to post-October 1, 2011 retirees. The following summarizes the changes:
a. For members retiring on or after October 2, 2011, the minimum COLA shall be $2.0 \%$ and the maximum COLA shall be $7.5 \%$. Our assumption for this group is $2.5 \%$.
b. For members retiring on or after October 2, 2011, the early retirement reduction factor shall be changed to $6.0 \%$ for each year before the individual would be eligible to take unreduced Normal Retirement.
c. For current Non-Hazardous members who are eligible to retire after July 1, 2022, the Normal Retirement Eligibility increases from Age 60 with 25 years of benefit service or Age 62 with 10 years of benefit service to Age 63 with 25 years of benefit service or Age 65 with 10 years of benefit service. This change affects all years of benefit service earned on or after July 1, 2011.
d. For all active members, no increases in salary will occur for fiscal years ending 2012 and 2013. In addition, increases in salary of 3\% plus step increases, annual increments or their equivalent will occur in fiscal years ending 2014, 2015 and 2016. Then in fiscal year 2017 and beyond, increases in salary will match our current assumptions.
e. A new retirement Tier III and Hybrid Plan Option for ARP members were established for individuals hired on or after July 1, 2011. Although there is no impact on this valuation
due to these changes, we have summarized these plan provisions in Schedule $F$ of this report.

Further, we reviewed and incorporated additional data pertaining to retirements that occurred after June 30, 2011 through October 1, 2011 that were largely due to the SEBAC Agreement.
5. The calculation of the projected required contributions for the fiscal year ending June 30, 2013 is found in Section $V$ of this report. Since this valuation is an update of the results provided in the 2010 valuation, we have provided a comparison of the results. In addition, we have included the projected required contributions for the fiscal year ending June 30, 2013 based upon the proposed elimination of the SEBAC IV and $V$ adjustments
6. Schedule B of this report presents the development of the actuarial value of assets. Schedule D details the actuarial assumptions and methods employed. Schedule F gives a summary of the benefit and contribution provisions of the plan.
7. The table on the following page provides a history of some pertinent figures.

## Connecticut State Employees Retirement System

Comparative Schedule*

| Valuation Date June 30 | Number | Active Members |  |  | Retired Lives |  |  |  | Valuation Results (\$ thousands) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Payroll (\$ thousands) | Average Salary | increase from previous year | Number | Active/ Retired Ratio | Annual Benefits (\$ thousands) | Benefits as \% of Payroll | Accrued Liability | Valuation Assets | UAAL |
| 2005 | 48,919 | \$2,980,104 | \$60,919 | 3.7 | 36,705 | 1.3 | \$906,226 | 30.4\% | \$15,987,547 | \$8,517,679 | \$7,469,868 |
| 2006 | 50,605 | 3,107,928 | 61,415 | 0.8 | 36,964 | 1.4 | 942,054 | 30.3 | 16,830,349 | 8,951,393 | 7,878,956 |
| 2007 | 52,438 | 3,310,351 | 63,129 | 2.8 | 37,420 | 1.4 | 988,914 | 29.9 | 17,888,065 | 9,584,970 | 8,303,095 |
| 2008 | 53,196 | 3,497,445 | 65,746 | 4.1 | 38,093 | 1.4 | 1,047,479 | 29.9 | 19,243,373 | 9,990,247 | 9,253,126 |
| 2010 | 50,064 | 3,295,666 | 65,829 | 0.1 | 41,782 | 1.2 | 1,264,025 | 38.4 | 21,054,197 | 9,349,605 | 11,704,592 |
| 2011 | 47,778 | 3,210,666 | 67,200 | 2.1 | 44,051 | 1.1 | 1,391,091 | 43.3 | 21,126,725 | 10,122,765 | 11,003,960 |

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## SECTION II - MEMBERSHIP

Data regarding the membership of the System for use as a basis for the valuation were furnished by the Comptroller's office. The following tables summarize the membership of the Retirement System as of June 30, 2011 upon which the valuation was based. Detailed tabulations of the data are given in Schedule G

Active Members

*Years
Of the 47,778 active members, 35,614 are vested and 12,164 are non-vested.

Retired Lives

| The of Bene ditument | No | Anuat Benefts | CTOU Ayerates <br> Beneft <br> 36 AGE |  |
| :---: | :---: | :---: | :---: | :---: |
| Retired - Pre 1980 | 1,860 | \$30,713,835 | \$16,513 | 87.9 |
| Retired-1980-1997 | 15,393 | 430,895,058 | 27,993 | 77.8 |
| Retired - 1997+ | 26,798 | 929,482,527 | 34,685 | 63.2 |
| Total | 44,051 | \$1,391,091,420 | \$31,579 | 69.3 |

*The retired count includes 1,496 members with annual benefits of $\$ 57,336,952$ that retired after June 30, 2011.
**Years

This valuation also includes 1,589 deferred vested members with estimated annual benefits of $\$ 23,237,927$.

## SECTION III - ASSETS

As of June 30, 2011, the total market value of assets amounted to $\$ 8,984,875,027$ as reported by the Comptroller's Office. This amount includes $\$ 2,509,578$ of receivables as of the valuation date. The actuarial value of assets used for the current valuation was $\$ 10,122,765,430$. Schedule B shows the development of the actuarial value of assets as of June 30, 2011.

Schedule $C$ shows receipts and disbursements of the System for the two years preceding the valuation date and a reconciliation of the fund balances at market value.

## SECTION IV - COMMENTS ON VALUATION

Schedule $A$ of this report outlines the results of the valuation of the Retirement System as of June 30, 2011. The valuation was prepared in accordance with the actuarial assumptions and methods set forth in Schedule D and the actuarial cost method which is described in Schedule E.

The valuation shows that the System has a total actuarial accrued liability of $\$ 21,126,725,492$, of which $\$ 15,663,379,708$ is for the benefits payable on account of present retired members, beneficiaries of deceased members, and inactive members entitled to deferred vested benefits, and $\$ 5,463,345,784$ is for the benefits expected to be payable on account of present active members, based on service to the valuation date. Against these liabilities, the System has total present assets for valuation purposes of $\$ 10,122,765,430$ as of June 30,2011 . When this amount is deducted from the actuarial accrued liability of $\$ 21,126,725,492$, there remains $\$ 11,003,960,062$ as the unfunded actuarial accrued liability.

The employer's contributions to the System consist of normal cost contributions and accrued liability contributions. The normal cost represents the ultimate cost of the benefits and the accrued liability contribution is an addition (reduction in case of a surplus) due to the amortization of the unfunded accrued liability. The valuation indicates that annual employer normal contributions at the rate of
$7.14 \%$ of active members' compensation are required to provide the currently accruing benefits of the System. The decrease in the employer normal cost rate is primarily due to the changes to the plan provisions included in the latest SEBAC agreement, including the lowering of the COLA assumption and the increase to the early retirement reduction factor for members who retire on or after October 2, 2011, the change in Normal Retirement Eligibility for members who are eligible to retire after July 1, 2022 and also the changes in the salary assumption for the next 5 fiscal years.

Accrued liability contributions of $21.72 \%$ of payroll are required to be made to amortize the unfunded accrued liability within 20 years from the valuation date.

## SECTION V - CONTRIBUTIONS PAYABLE BY EMPLOYER

The following table shows the amount and rate of contribution payable by the employer as determined from the present valuation for the 2011/2012 fiscal year.


The following table shows a breakdown by group of the normal cost amount and rate payable by the employer as determined from the present valuation for the 2011/2012 fiscal year.

| Erove | Nomal Cost |  | Normal Rete |
| :---: | :---: | :---: | :---: |
| Tier I- Hazardous | \$ | 0 | 0.00\% |
| Tier I - Plan B |  | 32,888,205 | 12.33 |
| Tier I - Plan C |  | 877,103 | 8.88 |
| Tier II - Hazardous |  | 42,959,308 | 13.57 |
| Tier II - Others |  | 82,678,301 | 7.73 |
| Tier IIA - Hazardous |  | 29,414,048 | 6.89 |
| Tier IIA - Others |  | 40,294,710 | 3.63 |
| Total |  | 229,111,675 | 7.14\% |

As the June 30, 2011 valuation is an update of the results provided in the June 30, 2010 valuation report, the table on the following page provides the projected required contributions for the fiscal year ending June 30, 2013 based upon the June 30, 2011 valuation as compared with the results of the June 30, 2010 valuation. In addition, we have included the projected required contributions for the fiscal year ending June 30, 2013 based upon the proposed elimination of the SEBAC IV and V adjustments.

| Projected Contributions Required for Fiscal Year Ending June 30, 2013 | June 30, 2011 Valuation with the Elmination of SEBAC IV and $V$ |  | June 30, 2011 Valuation before the Elimination of SEBAC IV and V |  |  | June 30, 2010 Valuation |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | As \% of Pay | \$ | As \% of Pay |  | \$ | As \% of Pay | $\$$ |
| Employer Normal Cost | 7.40\% | \$ 237,513,943 | 7.40\% |  | 237,513,943 | 8.83\% | \$ 302,692,046 |
| Unfunded Actuarial Accrued Liabilities | 24.62\% | 822,137,989 | 20.93\% |  | 698,744,751 | 21.66\% | 742,302,976 |
| Total | 32.02\% | \$1,059,651,932 | 28.33\% |  | 936,258,694 | 30.49\% | \$1,044,995,022 |

## SECTION VI-ACCOUNTING INFORMATION

1. Governmental Accounting Standards Board Statements 25 and 27 set forth certain items of required supplementary information to be disclosed in the financial statements of the System and the employer. One such item is a distribution of the number of employees by type of membership, as follows:

## NUMBER OF ACTIVE AND RETIRED MEMBERS AS OF JUNE 30, 2011

| GROUP | NUMBER |
| :--- | :---: |
| Retirees and beneficiaries currently  <br> receiving benefits  <br> Terminated employees entitled to <br> benefits but not yet receiving benefits 44,051 <br> Active plan members 1,589 <br> Total $\underline{47,778}$ | 93,418 |

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

## SCHEDULE OF FUNDING PROGRESS

(Dollar amounts in thousands)

| Actuarial <br> Valuation <br> Date | Actuarial Value of Assets (a) | Actuarial Accrued Liability (AAL) - PUC (b) | Unfunded AAL <br> (UAAL) $(b-a)$ | Funded <br> Ratio <br> (a/b) | Covered Payroll (c) | UAAL as a <br> Percentage of Covered Payroll $((b-a) / c)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6/30/2006 | \$8,951,393 | \$16,830,349 | \$7,878,956 | 53.2\% | \$3,107,928 | 253.5\% |
| 6/30/2007 | 9,584,970 | 17,888,065 | 8,303,095 | 53.6 | 3,310,351 | 250.8 |
| 6/30/2008 | 9,990,247 | 19,243,373 | 9,253,126 | 51.9 | 3,497,445 | 264.6 |
| 6/30/2010 | 9,349,605 | 21,054,197 | 11,704,592 | 44.4 | 3,295,666 | 355.2 |
| 6/30/2011 | 10,122,765 | 21,126,725 | 11,003,960 | 47.9 | 3,210,666 | 342.7 |

All figures prior to $6 / 30 / 2010$ were reported by the prior actuarial firm.

The following shows the schedule of employer contributions (all dollar amounts are in thousands).

| Fiscal <br> Year <br> Ending | Valuation <br> Date <br> Ending <br> June 30 30 | Annual Required <br> Contribution | Actual <br> Contribution | Percentage <br> Contributed |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| 2010 | 2008 | $\$ 897,428$ | $\$ 120,527$ | $80.3 \%$ |
| 2011 | 2008 | 944,077 | 825,801 | 87.5 |
| 2012 | 2010 | $1,023,451$ | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2012 | 2011 | 926,372 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |

All figures before the fiscal year ending 6/30/2010 were reported by the prior actuarial firm.
4. The information presented in the required supplementary schedules was determined as part of the actuarial valuation at June 30, 2011. Additional information as of the latest actuarial valuation follows.

| Valuation date | $6 / 30 / 2011$ |
| :--- | :--- |
| Actuarial cost method | Projected Unit Credit |
| Amortization method | Level percent of payroll, closed |
| Remaining amortization period <br> Asset valuation method <br> Actuarial assumptions: <br> Investment rate of <br> return* <br> Projected salary <br> increases* <br> Cost-of-living adjustments <br> Social Security Wage Base <br> *Includes inflation at | 20 years |

## SECTION VII - EXPERIENCE

Actual experience will never (except by coincidence) coincide exactly with assumed experience. It is assumed that gains and losses will be in balance over a period of years, but sizable year to year fluctuations are common. Detail on the derivation of the experience gain/(loss) for the year ended June 30, 2011 is shown below. Schedule H provides detailed gain/(loss) by source.
\$ Millions
(1) UAAL* as of June 30, 2010
\$ 11,704.6
(2) Total Normal cost from last valuation 359.8
(3) Actual Employer and Employee contributions 893.5
(4) Interest accrual: (1) $\times .0825+[[(2)-(3)] \times .0404]$ 944.1
(5) Expected UAAL as of June 30, 2011: (1) + (2) - (3) + (4) 12,115.0
(6) Actual UAAL as of June 30, 2011
\$ 11,004.0
(7) Gain/(loss):(5)-(6)
(8) Gain/(loss) as percent of actuarial accrued liabilities at June 30, 2010 (\$21,054.2)
*Unfunded actuarial accrued liability.


## SCHEDULE A

## RESULTS OF VALUATION

PREPARED AS OF JUNE 30, 2011

|  |  |  | NE 30,2014 |
| :---: | :---: | :---: | :---: |
| 1 | ACTUARIAL ACCRUED LIABILITY |  |  |
|  | Present value of prospective benefits payable in respect of: |  |  |
|  | (a) Present active members |  |  |
|  | - Tier I- Hazardous Duty | \$ | 64,437,469 |
|  | - Tier I - Plan B |  | 1,232,873,143 |
|  | - Tier I- Plan C |  | 47,184,111 |
|  | - Tier II - Hazardous Duty |  | 1,121,820,462 |
|  | - Tier II - All Others |  | 1,998,223,466 |
|  | - Tier IIA - Hazardous Duty |  | 440,607,783 |
|  | - Tier IIA - All Others |  | 558,199,350 |
|  | - Total actives | \$ | 5,463,345,784 |
|  | (b) Present inactive members and members entitled to deferred vested benefits: |  | 231,659,145 |
|  | (c) Present annuitants and beneficiaries |  | 5,431,720,563 |
|  | (d) Total actuarial accrued liability [1(a) +1 (b) +1 (c)] |  | 21,126,725,492 |
| 2. | ACTUARIAL VALUE OF ASSETS |  | 0,122,765,430 |
|  | UNFUNDED ACTUARIAL ACCRUED LIABILITY [1(d) - 2] |  | 1,003,960,062 |

## SCHEDULE B

## DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS



[^1]
## SCHEDULE C

SUMMARY OF RECEIPTS AND DISBURSEMENTS (Market Value)

| Receipts for the Year | dune 30, 2014 | He Tune 30,2010 |
| :---: | :---: | :---: |
| Contributions: |  |  |
| Members | \$ 67,679,263 | \$ 65,662,494 |
| State | 645,766,057 | 548,509,904 |
| Federal (Net of Transfers) | 180,034,856 | 172,016,675 |
| Subtotal | \$ 893,480,176 | \$ 786,189,073 |
| Amount Receivable | 2,509,578 | 2,087,879 |
| Investment Earnings (net of expenses) | 1,621,140,808 | 952,548,116 |
| TOTAL | \$ 2,517,130,562 | \$ 1,740,825,068 |
| Disbursements for the Year |  |  |
| Benefit Payments | \$ 1,315,660,456 | \$ 1,263,784,641 |
| Refunds to Members | 7,932,492 | 8,336,703 |
| TOTAL | \$ 1,323,592,948 | \$ 1, 272, 121,344 |
| Excess of Receipts over Disbursements | \$ 1,193,537,614 | \$ 468,703,724 |
| Reconciliation of Asset Balances |  |  |
| Asset Balance as of the Beginning of Year | \$ 7,791,337,413 | \$ 7,322,633,689 |
| Excess of Receipts over Disbursements | 1,193,537,614 | 468,703,724 |
| Asset Balance as of the End of Year | \$ 8,984, 875, 027 | \$ 7,791,337,413 |
| Rate of Return | 21.39\% | 13.45\% |

## SCHEDULE D

## OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

Adopted or reaffirmed by the Commission for the June 30, 2010 and later valuations
VALUATION INTEREST RATE: $8.25 \%$ per annum, compounded annually, net of expenses

## SALARY INCREASES:

No salary increases are assumed for the 2012 \& 2013 fiscal years. From fiscal year 2014 through 2016 salary increases are assumed to be $1 \%$ less than the table below. After the 2016 fiscal year, salary increases are assumed to continue using the same service schedule prior to 2012, which are as follows:


## COST OF LIVING ADJUSTMENTS:

| Pre July 1, 1980 Retirees | $3.60 \%$ |
| :---: | :---: |
| July 1, 1980 - June 30, 1997 Retirees | $3.00 \%$ |
| July 1, 1997 - October 1, 2011 Retirees | $2.70 \%$ |
| Post October 1, 2011 Retirees | $2.50 \%$ |

SOCIAL SECURITY WAGE BASE INCREASES: $3.50 \%$ per annum.
PAYROLL GROWTH ASSUMPTION: $4.00 \%$ per annum.

IMPACT OF LONGLEY DECISION: Benefits for members retiring from service on or after the Longley decision date are assumed to increase by $0.084 \%$ as a result of the revised treatment of longevity pay. Retroactive application of Longley has been reflected in this valuation to the extent impacted retiree benefits have been recalculated.

SEPARATIONS BEFORE SERVICE RETIREMENT: Representative values of the assumed annual rates of separation before service retirement are as follows:

WITHDRAWAL

| Annual Rates of Non-Hazardous Withdrawal* |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Years of Service |  |  |  |  |  |  |  |
| Age | 0 | 1 | 2 | 3 | 4 | 5 | 6-9 | $10+$ |
| Men |  |  |  |  |  |  |  |  |
| 20 | 30\% | 60\% | 60\% | 20\% | 20\% | 15\% | 5\% | 5.0\% |
| 25 | 30 | 30 | 20 | 10 | 10 | 8 | 4 | 5.0 |
| 30 | 25 | 25 | 18 | 10 | 10 | 8 | 4 | 4.0 |
| 35 | 25 | 25 | 16 | 10 | 10 | 8 | 4 | 3.0 |
| 40 | 25 | 25 | 14 | 10 | 10 | 6 | 4 | 2.5 |
| 45 | 25 | 25 | 12 | 10 | 10 | 6 | 4 | 2.2 |
| 50 | 25 | 25 | 12 | 10 | 10 | 6 | 4 | 1.5 |
| 55+ | 25 | 25 | 12 | 10 | 10 | 6 | 4 | 0.0 |
| Women |  |  |  |  |  |  |  |  |
| 20 | 30\% | 50\% | 30\% | 20\% | 20\% | 15\% | 5\% | 5.0\% |
| 25 | 25 | 30 | 20 | 16 | 11 | 10 | 5 | 5.0 |
| 30 | 20 | 20 | 16 | 12 | 11 | 9 | 5 | 4.0 |
| 35 | 20 | 20 | 12 | 9 | 10 | 8 | 4 | 3.0 |
| 40 | 15 | 18 | 10 | 9 | 7 | 5 | 4 | 2.5 |
| 45 | 15 | 18 | 10 | 9 | 7 | 5 | 3 | 2.0 |
| 50 | 15 | 18 | 10 | 9 | 7 | 5 | 3 | 1.5 |
| 55+ | 15 | 18 | 10 | 9 | 7 | 5 | 3 | 0.0 |

* For Hazardous Male Employees, multiply male rates by 35\%
* For Hazardous Female Employees, multiply female rates by 55\%


## DISABILITY

|  | Annual Rates of Disability |  |
| :--- | :---: | :---: |
| In Service | $0.45 \%$ at all ages | All Others |
| Non Service | $30 \%$ of 1975 Social Security Table |  |

RETIREMENT: The assumed annual rates of retirement are shown below.

|  Annual Rates of Retirement <br>  Hazardous Employees <br> Age First Year Eligible For |  |  | All Other Ages |
| :---: | :---: | :---: | :---: |
| Less than 44 | 18.0\% |  | 10.0\% |
| 45-48 | 25.0\% |  | 10.0\% |
| 49-59 | 10.0\% |  | 10.0\% |
| 60-69 | 25.0\% |  | 15.0\% |
| 70-79 | 100.0\% |  | 20.0\% |
| 80 | 100.0\% |  | 100.0\% |
| Non-Hazardous Employees <br> First Year Eligible For |  |  |  |
| Age | Reduced Benefits | Unreduced Benefits* | All Other Ages |
| 55 | 15.0\% | 15.0\% | 12.5\% |
| 56-59 | 10.0\% | 15.0\% | 12.5\% |
| 60 | 10.0\% | 25.0\% | 12.5\% |
| 61 | 20.0\% | 25.0\% | 15.0\% |
| 62 | 20.0\% | 10.0\% | 30.0\% |
| 63 | 20.0\% | 35.0\% | 25.0\% |
| 64 | 20.0\% | 45.0\% | 25.0\% |
| 65-69 | 50.0\% | 65.0\% | 25.0\% |
| 70-79 | 50.0\% | 100.0\% | 20.0\% |
| 80 | 100.0\% | 100.0\% | 100.0\% |

* These rates also apply for Tier I Plan B and Tier I Plan C members upon attainment of age 60 with at least 10 years of service.

DEATHS AFTER RETIREMENT: The RP2000 Mortality Table for Annuitants and Non-Annuitants projected with Scale AA 15 years for men and 25 years for women is used for the period after retirement and for dependent beneficiaries. Representative values of the assumed annual rates of mortality are as follows:

| Age | Men | Women | Age | Men | Women |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | $.096 \%$ | $.048 \%$ | 65 | $1.031 \%$ | $.856 \%$ |
| 45 | .124 | .075 | 70 | 1.770 | 1.477 |
| 50 | .163 | .109 | 75 | 3.062 | 2.299 |
| 55 | .272 | .222 | 80 | 5.536 | 3.849 |
| 60 | .530 | .446 | 85 | 9.968 | 6.663 |

In our opinion, the projection of the mortality rates with Scale AA continues to provide a sufficient margin in the assumed rates of mortality to allow for additional improvement in mortality experience.
$75 \%$ (men) and $115 \%$ (women) of the RP-2000 Disability Mortality Table is used for the period after disability.

ASSET METHOD: Actuarial Value, as developed in Schedule B. The actuarial value of assets recognizes a portion of the difference between the market value of assets and the expected value of assets, based on the assumed valuation rate of return. The amount recognized each year is $1 / 5$ of the difference between market value and expected actuarial value. In addition, the actuarial value of assets cannot be less than $80 \%$ or more than $120 \%$ of the market value of assets.

VALUATION METHOD: Projected Unit Credit cost method. See Schedule E for a brief description of this method.

SPOUSES: For members who have elected spouse coverage, husbands are assumed to be three years older than their wives.

PERCENT MARRIED: $80 \%$ of active members are assumed to be married with an average of two children who are on average age 12.

## OTHER ASSUMPTIONS:

- $20 \%$ of Pre-Retirement deaths are assumed to be service related,
- 50\% of Tier I Hazardous Employees are assumed to State Police,
- To take into account State Police Supplemental Benefits and the offset of Workers Compensation, Social Security, and Non-Rehabilitation Earnings, the following minimum and maximum benefits as a percent of salary are assumed for disability benefits:

| Minimum | Maximum |
| :---: | :---: |
|  | $80 \%$ |
| $40 \%$ | $60 \%$ |

## SCHEDULEE

## ACTUARIAL COST METHOD

The valuation is prepared on a projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently $8.25 \%$ ), of each member's expected benefits at retirement or death is determined, based on age, service and sex. The calculations take into account the probability of a member's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his terminating with a service, disability or survivor's benefit. Future salary increases are also anticipated. The present value of the expected benefits payable on account of the active members is added to the present value of the expected future payments to retired members, beneficiaries and members entitled to deferred vested benefits to obtain the present value of all expected benefits payable from the System on account of the present group of members and beneficiaries.

The Projected Unit Credit cost method is used to develop employer contributions. The employer contributions required to support the benefits of the System consist of a normal contribution and an unfunded actuarial accrued liability contribution.

The Actuarial Accrued Liability is determined as the present value of benefits accrued to the valuation date, where the accrued benefit for each active member is the pro-rata portion (based on service to the valuation date) of the projected benefit payable at termination, death, disability or retirement. The Actuarial Accrued Liability for deferred vested and inactive members is the present value as of the valuation date of their remaining benefit payments.

The normal contribution is determined as the present value of the portion of the projected benefit attributable to the year following the valuation date.

The Unfunded Actuarial Accrued Liability is determined by subtracting the Actuarial Value of Assets from the Actuarial Accrued Liability.

## SCHEDULE F

## SUMMARY OF MAIN SYSTEM PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

The Connecticut State Employees Retirement System (CT SERS) is a defined benefit pension plan established by the Connecticut General Assembly for the purpose of providing retirement allowances and other benefits for State employees in Connecticut, and their survivors and other beneficiaries.

## Eligibility Requirements

Tier I

Tier II

Tier IIA

Tier III

All State Employees, Elected Officials and their Appointees hired prior to July 1,1984 . Those employees hired between July 1, 1982 and January 1, 1984 could elect to move to Tier II.

All State Employees, Elected Officials and their Appointees hired on or after July 1, 1984.

All State Employees, Elected Officials and their Appointees hired on or after July 1, 1997.

All State Employees, Elected Officials and their Appointees hired on or after July 1, 2011.

Average Salary of the three highest paid years of service. Effective January 1, 1986, no one year's earnings can be greater than $130 \%$ of the average of the two preceding years in calculating the Final Average Earnings.

Average Salary of the five highest paid years of service. No one year's earnings can be greater than $130 \%$ of the average of the two preceding years in calculating the Final Average Earnings.

Tier / Hazardous - 20 years of credited service
Tier I Plans B and C - Earliest of age 55 with 25 years of service, age 60 with 10 years of service, or age 70 with 5 years of service.

Tier II Hazardous - 20 years of credited service.
Tier II and IIA - For those who will be eligible for retirement on or before July 1,2022 , the earliest of age 62 with 10 years of vesting service (effective July 1, 1992), age 60 with 25
years of vesting service, age 70 with 5 years of vesting service, or age 62 with 5 years of actual state service for terminations on or after July 1, 1997.

For those who will not be eligible for retirement on or before July 1, 2022, the earliest of age 65 with 10 years of vesting service, age 63 with 25 years of vesting service, age 70 with 5 years of vesting service.

Tier III Hazardous - Earlier of Age 50 and 20 years of benefit service or 25 years of benefit service.

Tier iII - Age 63 and 25 years of benefit service or Age 65 and 10 years of benefit service.

Benefit
Tier I Hazardous - $50 \%$ of FAE plus $2 \%$ for each year of service in excess of 20.

Tier I Plan B $-2 \%$ of FAE times years of service up to age 65. Thereafter, $1 \%$ of FAE up to $\$ 4,800$, plus $2 \%$ of FAE in excess of $\$ 4,800$ times years of service. At age 70, greater of $1.25 \%$ of FAE up to $\$ 4,800$ plus $2.5 \%$ of FAE in excess of $\$ 4,800$ times years of service (maximum 20 years) or $1.0 \%$ of FAE up to $\$ 4,800$ plus $2 \%$ of FAE in excess of $\$ 4,800$ times year of service. Minimum benefit with 25 years is $\$ 833.34$ per month.

Tier I Plan C $-2 \%$ of FAE times years of service. At age 70 , greater of $2.5 \%$ of FAE times years of service (maximum 20 years) or $2.0 \%$ of FAE times years of service. Minimum benefit with 25 years is $\$ 833.34$ per month.

Tier II,IIA and III Hazardous $-2.5 \%$ of FAE times years of service up to 20 years plus $2.0 \%$ of FAE times years of service in excess of 20 years, if any. Minimum benefit with 25 years is $\$ 360$ per month.

Tier II. IIA and III All Others - 1.333\% of FAE plus $0.50 \%$ of FAE in excess of year's breakpoint*, times years of service from October 1, 1982 up to 35 years plus 1.625\% of FAE times years of service in excess of 35 years, if any. Minimum benefit with 25 years if $\$ 360$ per month.

* $\$ 10,700$ increased by $6 \%$ each year after 1982 , rounded to nearest $\$ 100$ but not greater than Social Security Covered Compensation.

Eligibility

## Hazardous - None.

Tier 1-Age 55 with 10 years of service.
Tier I/ and IIA - Age 55 with 10 years of service
Tier III - Age 58 with 10 years of service.

Benefit
Tier 1 - Benefit is Normal Retirement Benefit reduced for retirement prior to age 60 with less than 25 years of service.

Tier II, IIA and III - Benefit is Normal Retirement Benefit reduced 0.25\% (effective July 1, 1991) for each month prior to age 60 if at least 25 years of service or age 62 if at least 10 but less than 25 years of service.

For those who retire on or after October 2, 2011 but prior to meeting the age and service requirements for a normal retirement, will be subject to a benefit reduced by $0.50 \%$ for each month prior to Normal Retirement.

## Disability Retirement Benefit

Tier I

Tier II, IIA and III

For non-service disabilities occurring prior to age 60 with at least 5 years of service, benefit is $3 \%$ of FAE times years of service; maximum benefit is $1.667 \%$ of FAE times year of service projected to age 65 .

For service disabilities occurring prior to age 60, benefit is $1.667 \%$ of Salary times years of service projected to age 65 (maximum 30 years).

Exception: State Police benefit is equal to the normal retirement benefit if more than 20 years of service. State Police also receives an additional benefit of $\$ 360$ per month plus $\$ 300$ to spouse plus $\$ 300$ to a surviving dependent child

Prior to age 65 for service related disability or at any age with at least 10 years of service, benefit is $1.333 \%$ of FAE plus $0.50 \%$ of FAE in excess of the year's breakpoint, times service projected to age 65 (maximum 30 years)

Eligibility

Benefit

## Pre-Retirement Spouse's Benefit

Tier 1

Tier $/-10$ years of service.
Tier // and //A - Effective July 1, 1997, 5 years of actual state service, 10 years of vesting service, or age 70 with 5 years of service.

Tier III - 10 years of benefit service.

Tier I - Benefit is payable at Normal Retirement Age or an Early Retirement Benefit is payable at age 55 .

Tier II and \|A - Benefit is payable at Normal Retirement Age or an Early Retirement Benefit is payable at age 55

Tier III - Benefit is payable at Normal Retirement Age or an Early Retirement Benefit is payable at age 58 .

State Police - Survivor benefits to spouse of $\$ 670$ per month plus $\$ 300$ to a surviving dependent child.

If eligible for early or normal retirement, $50 \%$ of the average of the Life Benefit and the $50 \%$ Joint \& Survivor Benefit the member would have received.

If not eligible for retirement but with 25 years of service, the same benefit calculated as though age 55 using service and earnings at death.

If not eligible for retirement, return of contributions (5\% interest).

If eligible for early or normal retirement, $50 \%$ of the $50 \%$ Joint \& Survivor Benefit the member would have received.

If not eligible for retirement but with 25 years of service, the same benefit calculated as though age 55 using service and earnings at death.

If not eligible for retirement, return of contributions (5\% interest).

If death is due to employment and there are dependent children under age 18 , spouse will be paid $\$ 100,000$ in 10 annual installments while living and not remarried. In addition, $\$ 50$ per month will be paid to each child while under age 18 .

If death is due to employment and there are no dependent children under age 18 , spouse will be paid $\$ 50,000$ in not less than 10 annual installments.
$50 \%$ or $100 \%$ Joint and Survivor (Normal Form if married) Straight life annuity (Normal Form if not married).
10 or 20 year certain and life annuity.

Annual adjustments each July 1 of up to $5 \%$ for retirements prior to July 1, 1980; 3\% for retirements after July 1, 1980 For members (and beneficiaries) not covered by Social Security and age 62 and over, the maximum increase is $6 \%$.

For employees retiring after June 30, 1999, the annual adjustment will be $60 \%$ of the increase in CPI up to $6 \%$ and $75 \%$ of the increase in the CPI over 6\%. This adjustment will be no less than $2.5 \%$ and no greater than $6 \%$.

Employees retiring between July 1, 1997 and June 30, 1999 made an irrevocable choice between the above formula and a fixed 3\% annual adjustment.

An employee from Tier IIA must have at least 10 years of actual state service or directly make the transition into retirement in order to be eligible for annual adjustments.

For employees retiring on or after October 2, 2011, the minimum COLA shall be $2.0 \%$ and the maximum COLA shall be $7.5 \%$.

4\% of earnings up to Social Security Taxable Wage Base plus $5 \%$ of earnings above that level.
$2 \%$ of earnings up to Social Security Taxable Wage Base plus $5 \%$ of earnings above that level.
$5 \%$ of earnings.
$4 \%$ of earnings.
None.
$5 \%$ of earnings.
$2 \%$ of earnings.

Hybrid Defined Benefit/Defined Contribution Plan for Employees of Higher Learning

Individuals hired on or after July 1, 2011 otherwise eligible for the Alternate Retirement Plan ("ARP") shall be eligible to be members of the new Hybrid Plan in addition to their existing choices. Individuals who are currently members of the ARP shall be eligible to join the Hybrid Plan on a one time option at the full actuarial cost. The Hybrid Plan shall have defined benefits identical to Tier II/IA and Tier III for individuals hired on or after July 1, 2011, but shall require employee contributions $3 \%$ higher than the contribution required from the Applicable Tier II/IIAIIII Plan. An employee shall have the option, upon leaving state service, of accepting the defined benefit amount, or electing to receive a return of his/her contributions to the Hybrid Plan, plus a 5\% employer match, plus $4 \%$ interest ("cash out option"). In the event the employee elects the cash out option, he/she shall permanently waive any entitlement they may have to health insurance as a retired state employee unless they convert the cash out option to a periodic payment as would be required under the current ARP Plan.

## SCHEDULE G

## TABLES OF MEMBERSHIP DATA

## STATUS RECONCILIATION OF ACTIVE MEMBERS

|  | Total |
| :--- | ---: |
| As of June 30,2010 | 50,064 |
| Retirements | $(2,754)$ |
| Disability | $(195)$ |
| Terminated Vested | $(49)$ |
| Terminated Non-Vested | $(14)$ |
| Deaths | $(79)$ |
| Rehires | 9 |
| New Participants | 2,939 |
| Refunds | $(2,143)$ |
| As of June 30, 2011 | 47,778 |

STATUS RECONCILIATION OF INACTIVE MEMBERS

|  | Retirees | Disability | Survivor | Deferred <br> Vested | Total |
| :--- | ---: | :---: | ---: | ---: | ---: |
| As of June 30, 2010 | 33,894 | 3,875 | 4,013 | 1,602 | 43,384 |
| Retirements | 121 |  |  |  | $(114)$ |
| Disability |  | $(7)$ |  |  | 0 |
| Deaths | $(583)$ | $(63)$ | 109 | $(9)$ | 0 |
| Rehires |  |  | $(11)$ | $(537)$ |  |
| Refunds |  | $(3)$ | $(9)$ | $(11)$ |  |
| Certain Period Ended |  |  |  |  | $(9)$ |
| Data Corrections | $(243)$ | 195 | 37 | 49 | $(213)$ |
| From Active | 2,754 | 3,997 | 4,111 | 1,589 | 3,035 |
| As of June 30, 2011 |  |  |  | 45,640 |  |

## SCHEDULE G

 (Continued)
## TIERI - HAZARDOUS DUTY

The Number and Average Annual Compensation of Active Employees By Age and Service as of June 30, 2011

| Years of Service |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Under | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | $\begin{aligned} & 35 \& \\ & 4 p \end{aligned}$ | Total |
| Under 25 <br> Avg. Pay | 0 0 | 0 0 | 0 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 25 to 29 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 |
| $\begin{aligned} & 30 \text { to } 34 \\ & \text { Avg. Pay } \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 |
| 35 to 39 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 | 0 0 |
| 40 to 44 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 | 0 0 | 0 0 | 0 | 0 0 |
| $45 \text { to } 49$ <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{r} 1 \\ \$ 83,683 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 |  | 0 0 | 0 | $\begin{array}{r} 5 \\ \$ 93,718 \\ \hline \end{array}$ |
| 50 to 54 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{r} 1 \\ \$ 95,915 \\ \hline \end{array}$ |  | $\begin{array}{r} 3 \\ \$ 79,349 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 94,310 \end{array}$ | $\begin{array}{r} 2 \\ \$ 70,721 \\ \hline \end{array}$ | $\begin{array}{r} 21 \\ \$ 116,240 \end{array}$ | $\begin{array}{r} 14 \\ \$ 85,971 \end{array}$ | 0 | $\begin{array}{r} 45 \\ \$ 98,479 \\ \hline \end{array}$ |
| 55 to 59 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{r} 5 \\ \$ 86,307 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 135,085 \end{array}$ | $\begin{array}{r} 13 \\ \$ 113,574 \end{array}$ | $\begin{array}{r} 17 \\ \$ 102,160 \\ \hline \end{array}$ |  | $\begin{array}{r} 41 \\ \$ 105,690 \end{array}$ |
| 60 to 64 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{array}{r} 1 \\ \$ 158,654 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{array}{r} 2 \\ \$ 68,004 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{r} 1 \\ \$ 107,112 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 2 \\ \$ 164,163 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ \$ 121,683 \\ \hline \end{array}$ |
| 65 to 69 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 0 | 0 | $\begin{array}{r} 2 \\ \$ 70,560 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 | $\begin{array}{r} 1 \\ \$ 119,515 \end{array}$ | $\$ 123,387$ | $\begin{array}{r} 4 \\ \$ 96,006 \\ \hline \end{array}$ |
| 70 \& Up Avg. Pay | 0 0 | 0 0 | 0 | 0 0 | 0 0 | 0 0 | 0 0 | $\begin{array}{r} 1 \\ \$ 83,898 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 1 \\ \$ 83,898 \\ \hline \end{array}$ |
| Total Avg. Pay | 0 | $\begin{array}{r} 2 \\ \$ 127,285 \\ \hline \end{array}$ | $\begin{array}{r} 4 \\ \$ 75,217 \end{array}$ | $\begin{array}{r} 3 \\ \$ 79,349 \\ \hline \end{array}$ | $\begin{array}{r} 10 \\ \$ 80,297 \end{array}$ | $\begin{array}{r} 5 \\ \$ 109,339 \\ \hline \end{array}$ | $\begin{array}{r} 39 \\ \$ 113,065 \\ \hline \end{array}$ | $\begin{array}{r} 33 \\ \$ 95,264 \\ \hline \end{array}$ | $\$ 122,508$ | $\begin{array}{r} 102 \\ \$ 102,269 \\ \hline \end{array}$ |

[^2]Average Service: 27.0
Page 29

## SCHEDULE G

## (Continued)

## TIER I-PLAN B

## The Number and Average Annual Compensation of Active Employees By Age and Service as of June 30, 2011

| Years of Service |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | $\begin{gathered} 35 \& \\ \text { Un } \end{gathered}$ | Total |
| Under 25 <br> Avg. Pay | 0 | 0 |  | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| $25 \text { to } 29$ <br> Avg. Pay | 0 | 0 0 |  | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 | 0 0 |
| $30 \text { to } 34$ <br> Avg. Pay |  | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 | $0$ | 0 | 0 | 0 0 | 0 | 0 0 | 0 |
| $\begin{gathered} 35 \text { to } 39 \\ \text { Avg. Pay } \end{gathered}$ | 0 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 40 to 44 <br> Avg. Pay | 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 | 0 | 0 | 0 0 | 0 0 | 0 | 0 0 | 0 0 |
| $\begin{gathered} 45 \text { to } 49 \\ \text { Avg. Pay } \end{gathered}$ | 0 |  |  | $\begin{array}{r} 7 \\ \$ 70,435 \\ \hline \end{array}$ | $\begin{array}{r} 10 \\ \$ 67,547 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ \$ 80,108 \\ \hline \end{array}$ | $\begin{array}{r} 187 \\ \$ 73,835 \end{array}$ | $\begin{array}{r} 29 \\ \$ 69,914 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 247 \\ \$ 72,412 \end{array}$ |
| 50 to 54 <br> Avg. Pay | $\begin{array}{r} 2 \\ \$ 69,477 \end{array}$ | $\begin{array}{r} 12 \\ \$ 60,871 \\ \hline \end{array}$ | $\begin{array}{r} 26 \\ \$ 69,297 \\ \hline \end{array}$ | $\begin{array}{r} 27 \\ \$ 70,039 \\ \hline \end{array}$ | $\begin{array}{r} 36 \\ \$ 79,397 \end{array}$ | $\begin{array}{r} 50 \\ \$ 82,606 \\ \hline \end{array}$ | $\begin{array}{r} 588 \\ \$ 84,418 \\ \hline \end{array}$ | $\begin{array}{r} 725 \\ \$ 75,962 \\ \hline \end{array}$ | $\begin{array}{r} 20 \\ \$ 77,473 \\ \hline \end{array}$ | $\begin{array}{r} 1,486 \\ \$ 79,280 \\ \hline \end{array}$ |
| $\begin{aligned} & 55 \text { to } 59 \\ & \text { Avg. Pay } \end{aligned}$ | $\begin{array}{r} 4 \\ \$ 59,618 \\ \hline \end{array}$ | 3 <br> \$83,398 | $\begin{array}{r} 20 \\ \$ 72,496 \\ \hline \end{array}$ | $\begin{array}{r} 25 \\ \$ 70,690 \\ \hline \end{array}$ | $\begin{array}{r} 25 \\ \$ 77,609 \\ \hline \end{array}$ | $\begin{array}{r} 40 \\ \$ 76,294 \\ \hline \end{array}$ | $\begin{array}{r} 234 \\ \$ 90,456 \end{array}$ | $\begin{array}{r} 465 \\ \$ 91,214 \\ \hline \end{array}$ | $\begin{array}{r} 65 \\ \$ 83,634 \\ \hline \end{array}$ | $\begin{array}{r} 881 \\ \$ 88,213 \\ \hline \end{array}$ |
| 60 to 64 <br> Avg. Pay | 0 | 3 <br> $\$ 88,167$ | $\$ 85,601$ | $\begin{array}{r} 9 \\ \$ 94,475 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ \$ 93,322 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ \$ 93,664 \\ \hline \end{array}$ | $\begin{array}{r} 76 \\ \$ 95,505 \\ \hline \end{array}$ | $\begin{array}{r} 165 \\ \$ 104,677 \end{array}$ | $\begin{array}{r} 56 \\ \$ 103,743 \end{array}$ | $\begin{array}{r} 342 \\ \$ 100,762 \\ \hline \end{array}$ |
| 65 to 69 <br> Avg. Pay | 0 | \$78,903 | $\begin{array}{r} 2 \\ \$ 77,511 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 2 \\ \$ 95,382 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 43,242 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ \$ 103,102 \\ \hline \end{array}$ | $\begin{array}{r} 39 \\ \$ 118,214 \\ \hline \end{array}$ | $\begin{array}{r} 38 \\ \$ 130,293 \end{array}$ | $\begin{array}{r} 98 \\ \$ 118,122 \\ \hline \end{array}$ |
| 70 \& Up Avg. Pay | 0 | 0 | 0 | 0 | $\begin{array}{r} 1 \\ \$ 65,007 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 13 \\ \$ 101,338 \\ \hline \end{array}$ | $\begin{array}{r} 17 \\ \$ 100,719 \\ \hline \end{array}$ | $\begin{array}{r} 34 \\ \$ 122,088 \\ \hline \end{array}$ | 65 <br> \$111,471 |
| Total Avg. Pay | 6 $\$ 62,904$ | $\begin{array}{r} 22 \\ \$ 65,591 \end{array}$ | $\begin{array}{r} 63 \\ \$ 72,155 \end{array}$ | $\begin{array}{r} 68 \\ \$ 73,553 \\ \hline \end{array}$ | $\begin{array}{r} 86 \\ \$ 79,647 \\ \hline \end{array}$ | $\begin{array}{r} 108 \\ \$ 80,891 \end{array}$ | $\begin{array}{r} 1,113 \\ \$ 85,116 \\ \hline \end{array}$ | $\begin{array}{r} 1,440 \\ \$ 85,492 \\ \hline \end{array}$ | $\begin{array}{r} 213 \\ \$ 102,805 \\ \hline \end{array}$ | $\begin{array}{r} 3,119 \\ \$ 85,506 \\ \hline \end{array}$ |

[^3]
## SCHEDULE G

## (Continued)

## TIER I - PLAN C

The Number and Average Annual Compensation of Active Employees By Age and Service as of June 30, 2011

| Years of Service |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | $\begin{gathered} 35 \& \\ \text { Un } \end{gathered}$ | Total |
| Under 25 Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| $\begin{gathered} 25 \text { to } 29 \\ \text { Avg. Pay } \\ \hline \end{gathered}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| $\begin{gathered} 30 \text { to } 34 \\ \text { Avg. Pay } \end{gathered}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| $\begin{gathered} 35 \text { to } 39 \\ \text { Avg. Pay } \end{gathered}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 | 0 0 |
| 40 to 44 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 45 to 49 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 | 0 0 | 0 | $\begin{array}{r} 7 \\ \$ 77,855 \end{array}$ | $\begin{array}{r} 2 \\ \$ 76,050 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 9 \\ \$ 77,454 \\ \hline \end{array}$ |
| 50 to 54 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{r} 1 \\ \$ 58,238 \end{array}$ | \$84,614 | 0 0 | 0 0 | $\begin{array}{r} 12 \\ \$ 73,381 \\ \hline \end{array}$ | $\begin{array}{r} 32 \\ \$ 72,999 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 78,531 \\ \hline \end{array}$ | $\begin{array}{r} 47 \\ \$ 73,147 \end{array}$ |
| $\begin{gathered} 55 \text { to } 59 \\ \text { Avg. Pay } \end{gathered}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 | $\begin{array}{r} 1 \\ \$ 78,505 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 78,879 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 1 \\ \$ 64,395 \\ \hline \end{array}$ | $\begin{array}{r} 10 \\ \$ 91,540 \\ \hline \end{array}$ | $\begin{array}{r} 19 \\ \$ 68,948 \\ \hline \end{array}$ | $\begin{array}{r} 4 \\ \$ 116,268 \\ \hline \end{array}$ | $\begin{array}{r} 38 \\ \$ 80,790 \\ \hline \end{array}$ |
| 60 to 64 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | 0 0 |  | $\begin{array}{r} 7 \\ \$ 74,103 \\ \hline \end{array}$ |  | $\begin{array}{r} 14 \\ \$ 73,996 \end{array}$ |
| $65 \text { to } 69$ <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 | 0 0 | $\$ 104,702$ | 0 0 | 0 0 | $\begin{array}{r} 1 \\ \$ 130,551 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 102,282 \end{array}$ | $\begin{array}{r} 3 \\ \$ 80,933 \\ \hline \end{array}$ |  |
| 70 \& Up Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 | 0 0 | 0 0 | 0 0 | $\begin{array}{r} 1 \\ \$ 50,836 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 110,693 \\ \hline \end{array}$ | $\begin{array}{r} 4 \\ \$ 77,996 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ \$ 116,365 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ \$ 95,940 \\ \hline \end{array}$ |
| Total Avg. Pay | 0 0 | 0 | $\begin{array}{r} 2 \\ \$ 68,372 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ \$ 85,191 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 2 \\ \$ 57,616 \\ \hline \end{array}$ | $\begin{array}{r} 35 \\ \$ 82,827 \\ \hline \end{array}$ | $\begin{array}{r} 65 \\ \$ 72,786 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ \$ 98,043 \\ \hline \end{array}$ | $\begin{array}{r} 125 \\ \$ 79,013 \\ \hline \end{array}$ |

## SCHEDULE G

 (Continued)
## TIER II - HAZARDOUS DUTY

The Number and Average Annual Compensation of Active Employees By Age and Service as of June 30, 2011

| Years of Service |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Under $\qquad$ | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | $\begin{gathered} 35 \& \\ \text { Up } \end{gathered}$ | Total |
| Under 25 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ |  | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 |
| $25 \text { to } 29$ <br> Avg. Pay | $0$ |  | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 |
| 30 to 34 <br> Avg. Pay | $0$ | 1 $\$ 74,777$ | $\begin{array}{r} 1 \\ \$ 62,796 \end{array}$ | $\$ 75,145$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |  |
| 35 to 39 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ |  | $\begin{array}{r} 3 \\ \$ 75,818 \\ \hline \end{array}$ | $\begin{array}{r} 101 \\ \$ 80,958 \end{array}$ | $\begin{array}{r} 139 \\ \$ 82,733 \end{array}$ | 0 0 | 0 0 | 0 0 | 0 | $\begin{array}{r} 245 \\ \$ 81,538 \end{array}$ |
| 40 to 44 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\$ 60,475$ | $\begin{array}{r} 15 \\ \$ 65,275 \\ \hline \end{array}$ | $\begin{array}{r} 171 \\ \$ 86,590 \\ \hline \end{array}$ | $\begin{array}{r} 874 \\ \$ 88,078 \\ \hline \end{array}$ | $\begin{array}{r} 102 \\ \$ 90,256 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 99,825 \\ \hline \end{array}$ | 0 0 | 0 0 | $\begin{array}{r} 1,169 \\ \$ 87,693 \\ \hline \end{array}$ |
| $45 \text { to } 49$ <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{r} 4 \\ \$ 93,008 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ \$ 83,456 \end{array}$ | $\begin{array}{r} 86 \\ \$ 87,799 \\ \hline \end{array}$ | $\begin{array}{r} 634 \\ \$ 83,961 \\ \hline \end{array}$ | $\begin{array}{r} 250 \\ \$ 98,596 \\ \hline \end{array}$ | $\begin{array}{r} 29 \\ \$ 91,841 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{array}{r} 1,019 \\ \$ 88,127 \\ \hline \end{array}$ |
| 50 to 54 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{r} 4 \\ \$ 63,356 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ \$ 74,835 \\ \hline \end{array}$ | $\begin{array}{r} 48 \\ \$ 86,134 \end{array}$ | $\begin{array}{r} 378 \\ \$ 79,821 \\ \hline \end{array}$ | $\begin{array}{r} 106 \\ \$ 90,888 \\ \hline \end{array}$ | $\begin{array}{r} 49 \\ \$ 100,390 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 | $\begin{array}{r} 593 \\ \$ 83,832 \\ \hline \end{array}$ |
| 55 to 59 <br> Avg. Pay | $\begin{array}{r} 1 \\ \$ 79,569 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 83,446 \end{array}$ | $\begin{array}{r} 1 \\ \$ 86,676 \\ \hline \end{array}$ | $\begin{array}{r} 31 \\ \$ 82,485 \\ \hline \end{array}$ | $\begin{array}{r} 248 \\ \$ 80,931 \\ \hline \end{array}$ | $\begin{array}{r} 62 \\ \$ 91,521 \\ \hline \end{array}$ | $\begin{array}{r} 25 \\ \$ 105,085 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 86,256 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 370 \\ \$ 84,501 \\ \hline \end{array}$ |
| 60 to 64 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{r} 2 \\ \$ 67,077 \\ \hline \end{array}$ | $\begin{array}{r} 4 \\ \$ 77,877 \\ \hline \end{array}$ | $\begin{array}{r} 22 \\ \$ 83,476 \\ \hline \end{array}$ | $\begin{array}{r} 136 \\ \$ 82,059 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \$ 91,474 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ \$ 104,275 \end{array}$ | 0 0 | 0 0 | $\begin{array}{r} 195 \\ \$ 84,001 \\ \hline \end{array}$ |
| 65 to 69 <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{r} 1 \\ \$ 99,486 \end{array}$ | 0 0 | $\begin{array}{r} 4 \\ \$ 84,415 \end{array}$ | $\begin{array}{r} 51 \\ \$ 79,275 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ \$ 81,332 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ \$ 92,195 \\ \hline \end{array}$ | 0 0 | 0 0 | $\begin{array}{r} 66 \\ \$ 80,534 \\ \hline \end{array}$ |
| 70 \& Up Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | 0 0 | $\begin{array}{r} 5 \\ \$ 32,575 \\ \hline \end{array}$ | $\$ 83,625$ | $\begin{array}{r} 1 \\ \$ 109,537 \end{array}$ | 0 | 0 0 | 0 | $\begin{array}{r} 15 \\ \$ 68,336 \end{array}$ |
| Total Avg. Pay | $\begin{array}{r} 1 \\ \$ 79,569 \end{array}$ | $\begin{array}{r} 19 \\ \$ 70,107 \\ \hline \end{array}$ | $\begin{array}{r} 48 \\ \$ 75,032 \end{array}$ | $\begin{array}{r} 474 \\ \$ 84,417 \end{array}$ | $\begin{array}{r} 2,469 \\ \$ 84,208 \end{array}$ | $\begin{array}{r} 552 \\ \$ 94,253 \end{array}$ | $\begin{array}{r} 116 \\ \$ 99,377 \end{array}$ | $\begin{array}{r} 1 \\ \$ 86,256 \end{array}$ | 0 0 | $\begin{array}{r} 3,680 \\ \$ 86,027 \end{array}$ |

## SCHEDULE G

 (Continued)
## TIER II - ALL OTHERS

## The Number and Average Annual Compensation of Active Employees By Age and Service as of June 30, 2011

| Years of Service |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Under $1$ | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | $\begin{aligned} & 35 \& \\ & 1 p \end{aligned}$ | Total |
| Under 25 <br> Avg. Pay | 0 | 0 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0 |
| $25 \text { to } 29$ <br> Avg. Pay | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 |
| 30 to 34 <br> Avg. Pay | $\begin{array}{r} 1 \\ \$ 51,184 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 37,422 \end{array}$ | $\begin{array}{r} 8 \\ \$ 58,070 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ \$ 59,879 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 51,982 \\ \hline \end{array}$ | 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 | 0 | $\begin{array}{r} 26 \\ \$ 57,821 \end{array}$ |
| $35 \text { to } 39$ <br> Avg. Pay | $\begin{array}{r} 2 \\ \$ 112,800 \end{array}$ | $\begin{array}{r} 10 \\ \$ 54,666 \\ \hline \end{array}$ | $\begin{array}{r} 21 \\ \$ 65,879 \end{array}$ | $\begin{array}{r} 130 \\ \$ 67,567 \end{array}$ | $\begin{array}{r} 166 \\ \$ 69,405 \end{array}$ | $\begin{array}{r} 4 \\ \$ 57,433 \\ \hline \end{array}$ | 0 0 | 0 | 0 0 | $\begin{array}{r} 333 \\ \$ 68,139 \end{array}$ |
| 40 to 44 <br> Avg. Pay | $\begin{array}{r} 5 \\ \$ 36,917 \end{array}$ | $\begin{array}{r} 38 \\ \$ 59,122 \end{array}$ | $\begin{array}{r} 67 \\ \$ 68,465 \end{array}$ | $\begin{array}{r} 280 \\ \$ 73,511 \\ \hline \end{array}$ | $\begin{array}{r} 1,013 \\ \$ 76,548 \\ \hline \end{array}$ | $\begin{array}{r} 576 \\ \$ 67,597 \\ \hline \end{array}$ | $\begin{array}{r} 42 \\ \$ 65,276 \end{array}$ | 0 | 0 | $\begin{array}{r} 2,021 \\ \$ 72,648 \end{array}$ |
| $45 \text { to } 49$ <br> Avg. Pay | $\begin{array}{r} 15 \\ \$ 67,048 \\ \hline \end{array}$ | $\begin{array}{r} 61 \\ \$ 58,131 \end{array}$ | $\begin{array}{r} 85 \\ \$ 63,124 \end{array}$ | $\begin{array}{r} 271 \\ \$ 74,709 \\ \hline \end{array}$ | $\begin{array}{r} 958 \\ \$ 76,562 \\ \hline \end{array}$ | $\begin{array}{r} 1,672 \\ \$ 77,676 \\ \hline \end{array}$ | $\begin{array}{r} 679 \\ \$ 76,224 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 64,550 \\ \hline \end{array}$ | 0 | $\begin{array}{r} 3,742 \\ \$ 76,217 \\ \hline \end{array}$ |
| $\begin{gathered} 50 \text { to } 54 \\ \text { Avg. Pay } \\ \hline \end{gathered}$ | $\begin{array}{r} 13 \\ \$ 45,856 \\ \hline \end{array}$ | $\begin{array}{r} 50 \\ \$ 52,299 \end{array}$ | $\begin{array}{r} 88 \\ \$ 69,381 \end{array}$ | $\begin{array}{r} 210 \\ \$ 75,836 \\ \hline \end{array}$ | $\begin{array}{r} 841 \\ \$ 75,294 \end{array}$ | $\begin{array}{r} 1,410 \\ \$ 77,975 \\ \hline \end{array}$ | $\begin{array}{r} 858 \\ \$ 81,389 \end{array}$ | $\begin{array}{r} 14 \\ \$ 83,199 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 3,484 \\ \$ 77,355 \\ \hline \end{array}$ |
| $\begin{gathered} 55 \text { to } 59 \\ \text { Avg. Pay } \end{gathered}$ | $\begin{array}{r} 8 \\ \$ 16,206 \end{array}$ | $\begin{array}{r} 34 \\ \$ 58,940 \\ \hline \end{array}$ | $\begin{array}{r} 73 \\ \$ 61,097 \end{array}$ | $\begin{array}{r} 190 \\ \$ 74,025 \end{array}$ | $\begin{array}{r} 665 \\ \$ 78,067 \end{array}$ | $\begin{array}{r} 1,035 \\ \$ 77,096 \end{array}$ | $\begin{array}{r} 538 \\ \$ 83,396 \end{array}$ | $\$ 87,523$ | $\begin{array}{r} 6 \\ \$ 74,025 \\ \hline \end{array}$ | $\begin{array}{r} 2,558 \\ \$ 77,586 \\ \hline \end{array}$ |
| $60 \text { to } 64$ <br> Avg. Pay | $\begin{array}{r} 4 \\ \$ 46,115 \\ \hline \end{array}$ | $\begin{array}{r} 21 \\ \$ 53,857 \\ \hline \end{array}$ | $\begin{array}{r} 43 \\ \$ 49,139 \\ \hline \end{array}$ | $\begin{array}{r} 108 \\ \$ 68,656 \\ \hline \end{array}$ | $\begin{array}{r} 441 \\ \$ 75,306 \\ \hline \end{array}$ | $\begin{array}{r} 516 \\ \$ 78,983 \end{array}$ | $\begin{array}{r} 251 \\ \$ 85,188 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ \$ 68,094 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ \$ 95,659 \\ \hline \end{array}$ | $\begin{array}{r} 1,405 \\ \$ 76,912 \\ \hline \end{array}$ |
| $65 \text { to } 69$ <br> Avg. Pay | $\begin{array}{r} 2 \\ \$ 18,704 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ \$ 14,043 \\ \hline \end{array}$ | $\begin{array}{r} 14 \\ \$ 36,918 \\ \hline \end{array}$ | $\begin{array}{r} 36 \\ \$ 65,843 \\ \hline \end{array}$ | $\begin{array}{r} 123 \\ \$ 73,230 \\ \hline \end{array}$ | $\begin{array}{r} 143 \\ \$ 78,285 \end{array}$ | $\begin{array}{r} 48 \\ \$ 95,501 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 85,640 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 78,123 \end{array}$ | $\begin{array}{r} 375 \\ \$ 74,936 \\ \hline \end{array}$ |
| 70 \& Up Avg. Pay | $\begin{array}{r} 6 \\ \$ 22,881 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 15,767 \\ \hline \end{array}$ |  | $\begin{array}{r} 20 \\ \$ 53,133 \\ \hline \end{array}$ | $\begin{array}{r} 47 \\ \$ 61,330 \\ \hline \end{array}$ | $\begin{array}{r} 39 \\ \$ 70,823 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \$ 73,641 \\ \hline \end{array}$ | 0 0 | $\begin{array}{r} 1 \\ \$ 120,578 \end{array}$ | $\begin{array}{r} 144 \\ \$ 60,956 \\ \hline \end{array}$ |
| Total Avg. Pay | $\begin{array}{r} 56 \\ \$ 45,572 \end{array}$ | $\begin{array}{r} 223 \\ \$ 54,906 \\ \hline \end{array}$ | $\begin{array}{r} 404 \\ \$ 62,049 \\ \hline \end{array}$ | $\begin{array}{r} 1,260 \\ \$ 72,499 \\ \hline \end{array}$ | $\begin{array}{r} 4,255 \\ \$ 75,864 \\ \hline \end{array}$ | $\begin{array}{r} 5,395 \\ \$ 76,643 \\ \hline \end{array}$ | $\begin{array}{r} 2,439 \\ \$ 80,712 \\ \hline \end{array}$ | 30 $\$ 81,438$ | $\begin{array}{r} 26 \\ \$ 89,602 \\ \hline \end{array}$ | $\begin{array}{r} 14,088 \\ \$ 75,890 \\ \hline \end{array}$ |

[^4]Page 33

SCHEDULE G
(Continued)

## TIER IIA - HAZARDOUS DUTY

## The Number and Average Annual Compensation of Active Employees By Age and Service as of June 30, 2011

| Years of Service |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | $\begin{gathered} 35 \& \\ \mathrm{Ub} \end{gathered}$ | Total |
| Under 25 <br> Avg. Pay | $\begin{array}{r} 37 \\ \$ 36,485 \\ \hline \end{array}$ | $\begin{array}{r} 28 \\ \$ 50,084 \end{array}$ | $\begin{array}{r} 1 \\ \$ 61,758 \end{array}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 | $\begin{array}{r} 66 \\ \$ 42,637 \end{array}$ |
| $25 \text { to } 29$ <br> Avg. Pay | $\begin{array}{r} 133 \\ \$ 39,930 \\ \hline \end{array}$ | $\begin{array}{r} 587 \\ \$ 57,824 \end{array}$ | $\begin{array}{r} 96 \\ \$ 61,897 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 51,141 \end{array}$ | 0 | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 | $\begin{array}{r} 817 \\ \$ 55,381 \end{array}$ |
| 30 to 34 <br> Avg. Pay | $\begin{array}{r} 73 \\ \$ 42,793 \end{array}$ | $\begin{array}{r} 518 \\ \$ 58,869 \end{array}$ | $\begin{array}{r} 510 \\ \$ 64,906 \end{array}$ | $\begin{array}{r} 142 \\ \$ 72,832 \\ \hline \end{array}$ | 0 | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 | $\begin{array}{r} 1,243 \\ \$ 61,997 \\ \hline \end{array}$ |
| $\begin{gathered} 35 \text { to } 39 \\ \text { Avg. Pay } \end{gathered}$ | $\begin{array}{r} 35 \\ \$ 50,825 \\ \hline \end{array}$ | $\begin{array}{r} 340 \\ \$ 61,810 \\ \hline \end{array}$ | $\begin{array}{r} 454 \\ \$ 67,404 \\ \hline \end{array}$ | $\begin{array}{r} 570 \\ \$ 77,481 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 60,471 \\ \hline \end{array}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 | $\begin{array}{r} 1,400 \\ \$ 69,729 \\ \hline \end{array}$ |
| 40 to 44 <br> Avg. Pay | $\begin{array}{r} 43 \\ \$ 43,714 \\ \hline \end{array}$ | $\begin{array}{r} 244 \\ \$ 62,361 \\ \hline \end{array}$ | $\begin{array}{r} 350 \\ \$ 66,049 \\ \hline \end{array}$ | $\begin{array}{r} 557 \\ \$ 77,887 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 96,202 \end{array}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 | $\begin{array}{r} 1,195 \\ \$ 70,035 \end{array}$ |
| $45 \text { to } 49$ <br> Avg. Pay | $\begin{array}{r} 33 \\ \$ 43,749 \\ \hline \end{array}$ | $\begin{array}{r} 165 \\ \$ 62,799 \\ \hline \end{array}$ | $\begin{array}{r} 245 \\ \$ 72,100 \\ \hline \end{array}$ | $\begin{array}{r} 297 \\ \$ 72,676 \\ \hline \end{array}$ | 0 | 0 0 | 0 0 | 0 0 | 0 0 | $\begin{array}{r} 740 \\ \$ 68,993 \end{array}$ |
| 50 to 54 <br> Avg. Pay | $\begin{array}{r} 11 \\ \$ 40,475 \\ \hline \end{array}$ | $\begin{array}{r} 105 \\ \$ 64,558 \\ \hline \end{array}$ | $\begin{array}{r} 163 \\ \$ 75,080 \end{array}$ | $\begin{array}{r} 206 \\ \$ 76,589 \end{array}$ | 0 | 0 0 | 0 | 0 0 | 0 | $\begin{array}{r} 485 \\ \$ 72,658 \\ \hline \end{array}$ |
| 55 to 59 <br> Avg. Pay | $\begin{array}{r} 4 \\ \$ 42,706 \\ \hline \end{array}$ | $\begin{array}{r} 45 \\ \$ 61,487 \\ \hline \end{array}$ | $\begin{array}{r} 75 \\ \$ 72,745 \\ \hline \end{array}$ | $\begin{array}{r} 129 \\ \$ 70,526 \\ \hline \end{array}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | $\begin{array}{r} 253 \\ \$ 69,136 \\ \hline \end{array}$ |
| 60 to 64 <br> Avg. Pay | $\begin{array}{r} 2 \\ \$ 48,684 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ \$ 69,660 \\ \hline \end{array}$ | $\begin{array}{r} 48 \\ \$ 81,690 \\ \hline \end{array}$ | $\begin{array}{r} 80 \\ \$ 72,130 \\ \hline \end{array}$ | 0 | 0 0 | 0 0 | 0 0 | 0 0 | $\begin{array}{r} 142 \\ \$ 74,823 \\ \hline \end{array}$ |
| 65 to 69 <br> Avg. Pay | $\begin{array}{r} 2 \\ \$ 69,615 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ \$ 65,122 \\ \hline \end{array}$ | $\begin{array}{r} 21 \\ \$ 65,563 \\ \hline \end{array}$ | $\begin{array}{r} 43 \\ \$ 60,145 \\ \hline \end{array}$ | 0 | 0 0 | 0 0 | 0 | 0 0 | $\begin{array}{r} 72 \\ \$ 62,403 \\ \hline \end{array}$ |
| 70 \& Up Avg. Pay | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{array}{r} 5 \\ \$ 86,737 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \$ 45,507 \\ \hline \end{array}$ | 0 | 0 0 | 0 0 | 0 0 | 0 0 | $\begin{array}{r} 28 \\ \$ 52,870 \\ \hline \end{array}$ |
| Total Avg. Pay | $\begin{array}{r} 373 \\ \$ 42,197 \\ \hline \end{array}$ | $\begin{array}{r} 2,050 \\ \$ 60,100 \\ \hline \end{array}$ | $\begin{array}{r} 1,968 \\ \$ 68,046 \\ \hline \end{array}$ | $\begin{array}{r} 2,048 \\ \$ 75,099 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ \$ 78,337 \end{array}$ | 0 0 | 0 0 | 0 | 0 0 | $\begin{array}{r} 6,441 \\ \$ 66,266 \\ \hline \end{array}$ |

Average Age:

39.6

Average Service: 7.2

## SCHEDULE G

## (Continued)

TIER IIA - ALL OTHERS
The Number and Average Annual Compensation of Active Employees By Age and Service as of June 30, 2011

| Years of Service |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | $\begin{aligned} & 35 \& \\ & \text { Un } \end{aligned}$ | Total |
| Under 25 Avg. Pay | $\begin{array}{r} 366 \\ \$ 28,551 \end{array}$ | $\begin{array}{r} 324 \\ \$ 18,551 \end{array}$ | $\begin{array}{r} 9 \\ \$ 39,268 \\ \hline \end{array}$ | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | $\begin{array}{r} 699 \\ \$ 24,054 \\ \hline \end{array}$ |
| $\begin{gathered} 25 \text { to } 29 \\ \text { Avg. Pay } \end{gathered}$ | $\begin{array}{r} 408 \\ \$ 33,672 \\ \hline \end{array}$ | $\begin{array}{r} 1,111 \\ \$ 45,865 \end{array}$ | $\begin{array}{r} 253 \\ \$ 47,525 \\ \hline \end{array}$ | $\$ 44,252$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | $\begin{array}{r} 1,778 \\ \$ 43,298 \\ \hline \end{array}$ |
| 30 to 34 <br> Avg. Pay | $\begin{array}{r} 264 \\ \$ 37,236 \end{array}$ | $\begin{array}{r} 1,145 \\ \$ 48,889 \\ \hline \end{array}$ | $\begin{array}{r} 887 \\ \$ 58,663 \\ \hline \end{array}$ | $\begin{array}{r} 216 \\ \$ 56,916 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ \$ 44,054 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 | $\begin{array}{r} 2,514 \\ \$ 51,800 \\ \hline \end{array}$ |
| $35 \text { to } 39$ <br> Avg. Pay | $\begin{array}{r} 194 \\ \$ 35,889 \\ \hline \end{array}$ | $\begin{array}{r} 914 \\ \$ 51,169 \\ \hline \end{array}$ | $\begin{array}{r} 916 \\ \$ 60,450 \\ \hline \end{array}$ | $\begin{array}{r} 839 \\ \$ 67,398 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ \$ 70,144 \\ \hline \end{array}$ | 0 0 | 0 0 | 0 0 | 0 0 | $\begin{array}{r} 2,869 \\ \$ 57,885 \\ \hline \end{array}$ |
| $40 \text { to } 44$ <br> Avg. Pay | $\begin{array}{r} 185 \\ \$ 38,275 \\ \hline \end{array}$ | $\begin{array}{r} 952 \\ \$ 49,523 \\ \hline \end{array}$ | $\begin{array}{r} 921 \\ \$ 61,696 \\ \hline \end{array}$ | $\begin{array}{r} 918 \\ \$ 67,272 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 75,683 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ \$ 64,730 \end{array}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | 0 0 | $\begin{array}{r} 2,979 \\ \$ 58,076 \\ \hline \end{array}$ |
| $45 \text { to } 49$ <br> Avg. Pay | $\begin{array}{r} 199 \\ \$ 37,193 \\ \hline \end{array}$ | $\begin{array}{r} 860 \\ \$ 50,554 \\ \hline \end{array}$ | $\begin{array}{r} 957 \\ \$ 61,395 \\ \hline \end{array}$ | $\begin{array}{r} 836 \\ \$ 68,254 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 58,765 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{array}{r} 1 \\ \$ 87,691 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 | $\begin{array}{r} 2,856 \\ \$ 58,458 \\ \hline \end{array}$ |
| 50 to 54 <br> Avg. Pay | $\begin{array}{r} 193 \\ \$ 39,243 \\ \hline \end{array}$ | $\begin{array}{r} 804 \\ \$ 52,520 \\ \hline \end{array}$ | $\begin{array}{r} 803 \\ \$ 62,248 \\ \hline \end{array}$ | $\begin{array}{r} 820 \\ \$ 68,802 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 29,179 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 57,609 \\ \hline \end{array}$ | 0 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | $\begin{array}{r} 2,624 \\ \$ 59,584 \\ \hline \end{array}$ |
| $\begin{aligned} & 55 \text { to } 59 \\ & \text { Avg. Pay } \end{aligned}$ | $\begin{array}{r} 160 \\ \$ 40,221 \\ \hline \end{array}$ | $\begin{array}{r} 578 \\ \$ 50,625 \\ \hline \end{array}$ | $\begin{array}{r} 715 \\ \$ 64,754 \\ \hline \end{array}$ | $\begin{array}{r} 595 \\ \$ 70,158 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 82,448 \\ \hline \end{array}$ |  | $\begin{array}{r} 1 \\ \$ 5,712 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 157,559 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 71,900 \\ \hline \end{array}$ | $\begin{array}{r} 2,055 \\ \$ 60,484 \\ \hline \end{array}$ |
| 60 to 64 <br> Avg. Pay | $\begin{array}{r} 113 \\ \$ 37,453 \\ \hline \end{array}$ | $\begin{array}{r} 304 \\ \$ 51,642 \\ \hline \end{array}$ | $\begin{array}{r} 455 \\ \$ 59,451 \\ \hline \end{array}$ | $\begin{array}{r} 383 \\ \$ 69,726 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ \$ 58,076 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 0 | 0 0 | $\begin{array}{r} 1,257 \\ \$ 58,713 \end{array}$ |
| 65 to 69 <br> Avg. Pay | $\begin{array}{r} 49 \\ \$ 31,433 \end{array}$ | $\begin{array}{r} 124 \\ \$ 38,592 \end{array}$ | $\begin{array}{r} 129 \\ \$ 50,914 \end{array}$ | $\begin{array}{r} 113 \\ \$ 66,793 \end{array}$ | $\begin{array}{r} 1 \\ \$ 15,810 \\ \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{array}{r} 1 \\ \$ 124,305 \end{array}$ | 0 0 | 0 0 | $\begin{array}{r} 417 \\ \$ 49,356 \end{array}$ |
| $\begin{aligned} & 70 \& \text { Up } \\ & \text { Avg. Pay } \end{aligned}$ | $\begin{array}{r} 41 \\ \$ 27,607 \end{array}$ | $\begin{array}{r} 55 \\ \$ 26,764 \\ \hline \end{array}$ | $\begin{array}{r} 45 \\ \$ 36,481 \end{array}$ | $\begin{array}{r} 33 \\ \$ 54,177 \\ \hline \end{array}$ | 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 0 0 | 0 0 | 1 $\$ 13,107$ | $\begin{array}{r} 175 \\ \$ 34,551 \\ \hline \end{array}$ |
| Total Avg. Pay | $\begin{array}{r} 2,172 \\ \$ 35,164 \end{array}$ | $\begin{array}{r} 7,171 \\ \$ 47,940 \end{array}$ | $\begin{array}{r} 6,090 \\ \$ 60,247 \end{array}$ | $\begin{array}{r} 4,759 \\ \$ 67,687 \end{array}$ | $\begin{array}{r} 21 \\ \$ 58,466 \end{array}$ | $\begin{array}{r} 4 \\ \$ 64,963 \end{array}$ | $\begin{array}{r} 3 \\ \$ 72,569 \end{array}$ | $\begin{array}{r} 1 \\ \$ 157,559 \end{array}$ | $\begin{array}{r} 2 \\ \$ 42,504 \end{array}$ | $\begin{array}{r} 20,223 \\ \$ 54,944 \\ \hline \end{array}$ |

Average Age: $\quad 43.6$
Average Service: 6.2

## SCHEDULE G

(Continued)

## NUMBER OF RETIRED MEMBERS <br> AND THEIR BENEFITS BY AGE

| Age | Number | Total Annual Benefits | Average Annual Benefits |
| :---: | :---: | :---: | :---: |
| Under 50 | 1,546 | $\$ 102,742,052$ | $\$$ |
| $50-54$ | 1,488 | $62,226,158$ | 40,583 |
| $55-59$ | 4,771 | $187,976,406$ | 41,819 |
| $60-64$ | 7,141 | $267,513,760$ | 39,400 |
| $65-69$ | 7,386 | $248,362,443$ | 37,462 |
| $70-74$ | 5,494 | $170,530,521$ | 33,626 |
| $75-79$ | 4,563 | $132,249,760$ | 31,039 |
| $80-84$ | 3,762 | $99,668,445$ | 28,983 |
| $85-89$ | 2,409 | $55,153,817$ | 26,493 |
| $90-94$ | 1,081 | $21,690,146$ | 22,895 |
| $95 \&$ Over | 299 | $5,502,148$ | 20,065 |
| Total | 39,940 | $1,313,615,656$ |  |

NUMBER OF BENEFICIARIES AND THEIR BENEFITS BY AGE

| Age | Number | Total Annual Benefits | Average Annual Benefits |  |
| :---: | :---: | :---: | :---: | :---: |
| Under 50 | 299 | $\$$ | $5,254,452$ | $\$$ |
| $50-54$ | 121 | $2,995,850$ | 17,573 |  |
| $55-59$ | 190 | $4,657,155$ | 24,759 |  |
| $60-64$ | 296 | $7,089,053$ | 24,511 |  |
| $65-69$ | 407 | $8,835,362$ | 23,950 |  |
| $70-74$ | 501 | $9,787,273$ | 21,709 |  |
| $75-79$ | 609 | $10,926,233$ | 19,535 |  |
| $80-84$ | 666 | $11,649,823$ | 17,941 |  |
| $85-89$ | 621 | $10,574,179$ | 17,492 |  |
| $90-94$ | 310 | $4,360,807$ |  | 17,028 |
| $95 \&$ Over | 91 |  | $1,345,577$ |  |
| Total | 4,111 | $\$ 77,475,764$ | $\$ 4,067$ |  |
|  |  |  | $\$$ | 18,8487 |

SCHEDULE G
(Continued)

## NUMBER OF DEFERRED VESTED MEMBERS <br> AND THEIR BENEFITS BY AGE

| Age | Number | Total Annual Benefits | Average Annual Benefits |  |
| :---: | ---: | ---: | ---: | ---: |
| Under 50 | 778 | $\$ 10,573,268$ | $\$$ | 13,590 |
| $50-54$ | 532 | $8,974,924$ | 16,870 |  |
| $55-59$ | 179 | $2,735,073$ | 15,280 |  |
| $60-64$ | 78 | 761,625 | 9,764 |  |
| $65-69$ | 21 | 181,229 | 8,630 |  |
| $70-74$ | 1 | 11,808 | 11,808 |  |
| $75-79$ | 0 | 0 | 0 |  |
| $80-84$ | 0 | 0 | 0 |  |
| $85-89$ | 0 | 0 | 0 |  |
| $90-94$ | 0 | 0 | 0 |  |
| $95 \&$ Over | 0 |  | 0 | 0 |
| Total | 1,589 | $\$ 23,237,927$ | $\$ 14,624$ |  |

## SCHEDULE H

## ANALYSIS OF FINANCIAL EXPERIENCE <br> Gains \& Losses in Accrued Liabilities Resulting from Difference Between Assumed Experience \& Actual Experience (\$ Millions)

## Tyee of Activity

## S cain (or Loss) For One <br> Year Period Ending 6egr2011

Age \& Service Retirements. If members retire at older ages, there is a gain. If younger ages, a loss.

Disability Retirements. If disability claims are less than assumed, there is a gain. If more claims, a loss.

Death-in Service Benefits. If survivor claims are less than assumed, there is a gain. If more claims, there is a loss.

Withdrawal From Employment. If more liabilities are released by withdrawals than assumed, there is a gain. If smaller releases, a loss.

Pay Increases. If there are smaller pay increases than assumed, there is a gain. If greater increases, a loss. 60.1

New Members. Additional unfunded accrued liability will produce a loss.
Investment Income. If there is a greater investment income than assumed, there is a gain. If less income, a loss.

Death After Retirement. If retirants live longer than assumed, there is a loss. If not as long, a gain.

Other. Miscellaneous gains and losses resulting from changes in valuation software, data adjustments, timing of financial transactions, etc.*
197.5

Gain (or Loss) During Year From Financial Experience
$\$ \quad 467.0$
Non-Recurring Items. Adjustments for plan amendments, assumption changes, or method changes.
644.0

Composite Gain (or Loss) During Year \$ 1.111.0
*Includes contribution shortfall

## SCHEDULE

## ACTUARIAL SURPLUS TEST

Section 5-162(h) of the General Statutes of Connecticut provides that the Retirement Commission may grant additional Cost-of-Living Adjustments (COLAs) for retired members if an actuarial surplus exists. An actuarial surplus is deemed to exist if three criteria are met.
I. Investment Income: The actual rate of return for the Fiscal Year ending on the valuation date must exceed the actuarial interest rate assumption.

Market Value of Assets on June 30, 2010: (A) \$7,791,337,413
Market Value of Assets on June 30, 2011: (B) \$8,984,875,027
Investment Income for FY 2010-2011: (I) \$1,621,140,808
Actual Rate of Return for FY 2010-2011: 2 I / ( $\mathrm{A}+\mathrm{B}-\mathrm{I}$ ) $\quad 21.39 \%$
Actuarial Interest Rate Assumption: $\quad 8.25 \%$
Actual return of $21.39 \%$ is more than the assumed $8.25 \%$, so the first criterion is met.
II. Assets vs. Liabilities: Market value of assets must exceed $50 \%$ of specified liabilities.

Market Value of Assets on June 30, 2011: \$8,984,875,027
Specified Liabilities on June 30, 2011:
Liability for Retired Members \$15,431,720,563
Liability for Terminated Vested Members \$231,659,145
Liability for Member Contributions with Interest \$681,225,480
Total
\$16,344,605,188
$50 \%$ of Specified Liabilities $\$ 8,172,302,594$
Market Value exceeds $50 \%$ of specified liabilities so the second criterion is met.
III. Unfunded Liability: Actual unfunded liability must be less than the projected unfunded liability five years from the determination date.

Actual Unfunded Liability on June 30, 2011 :
\$11,003,960,062
Projected Unfunded Liability on June 30, 2016 (see next page): \$2,960,162,000
Actual Unfunded Liability is not less than Projected Unfunded Liability so the third criterion is not met and therefore, no actuarial surplus exists.

## SCHEDULE

## (continued)

## ACTUARIAL SURPLUS TEST PROJECTION OF UNFUNDED LIABILITY

Section $5-162-h(b)(2)$ of the General Statutes of Connecticut specifies the means of calculating the Projected Unfunded Liability used in the third criterion of the Actuarial Surplus Test. The projection reflects the actual unfunded liability as of December 31, 1983 adjusted for changes in actuarial assumptions and cost methods through the determination date. No provision is made in the Statute for reflecting the impact of plan changes. The projection below reflects the following changes: data correction (June 30, 1987); change in actuarial assumptions (June 30, 1987); change in actuarial cost method (June 30, 1988); change in actuarial assumptions - interest rate only (June 30, 1989); change in actuarial cost method - amortization period only (June 30, 1992); change in actuarial assumptions (June 30, 1993); change in actuarial cost method - level percent amortization (June 30, 1997); change in actuarial methods and assumptions (June 30, 2000); change in actuarial assumptions (June 30, 2004); change in actuarial assumptions (June 30, 2008).

| Year | (\$000) <br> June 30 <br> Unfunded <br> Liability | Year | (\$000) <br> June 30 <br> Unfunded <br> Liability | Year | (\$000) <br> June 30 <br> Unfunded <br> Liability |
| :---: | :---: | :---: | :---: | :---: | ---: |
| 1987 | $\$ 2,524,556$ | 2002 | $\$ 2,360,589$ | 2017 | $\$ 2,938,483$ |
| 1988 | $1,954,257$ | 2003 | $2,429,273$ | 2018 | $2,904,380$ |
| 1989 | $1,432,333$ | 2004 | $2,502,591$ | 2019 | $2,856,402$ |
| 1990 | 1,939758 | 2005 | $2,569,504$ | 2020 | $2,792,963$ |
| 1991 | $1,930,524$ | 2006 | $2,634,814$ | 2021 | $2,71,326$ |
| 1992 | $1,920,505$ | 2007 | $2,698,021$ | 2022 | $2,612,594$ |
| 1993 | $1,794,192$ | 2008 | $2,823,251$ | 2023 | $2,491,695$ |
| 1994 | $1,787,586$ | 2009 | $2,861,884$ | 2024 | $2,347,364$ |
| 1995 | $1,780,419$ | 2010 | $2,895,933$ | 2025 | $2,177,129$ |
| 1996 | $1,772,643$ | 2011 | $2,924,709$ | 2026 | $1,978,295$ |
| 1997 | $1,764,205$ | 2012 | $2,947,454$ | 2027 | $1,747,919$ |
| 1998 | $1,835,087$ | 2013 | $2,963,333$ | 2028 | $1,482,794$ |
| 1999 | $1,907,249$ | 2014 | $2,971,431$ | 2029 | $1,179,423$ |
| 2000 | $2,222,296$ | 2015 | $2,970,742$ | 2030 | 833,996 |
| 2001 | $2,291,494$ | 2016 | $2,960,162$ | 2031 | 442,361 |
|  |  |  |  | 2032 | 0 |


[^0]:    *All amounts prior to 2010 reported by prior actuarial firm.

[^1]:    * Before corridor constraints, if applicable and adjusted.
    ** Includes receivables of: $\$ 2,509,578$ at 6/30/2011 and $\$ 2,087,879$ at 6/30/2010.

[^2]:    Average Age: 55.1

[^3]:    Average Age
    55.2

    Average Service: 29.4

[^4]:    Average Age
    51.4

    Average Service: 20.2

