

**Appendix 1**

**STATE OF CONNECTICUT**

**BY HER EXCELLENCY**

**M. JODI RELL**

**EXECUTIVE ORDER NO. 38**

**WHEREAS** the State of Connecticut provides its employees with pensions and other post-employment benefits such as health care; and

**WHEREAS** these benefits serve the public interest by attracting and retaining a workforce that protects the health and safety of the State; and

**WHEREAS** the most recent accounting reports that the State Employees Retirement System is \$9.3 billion under funded, and the State Employees Post Retirement Health and Life benefits ("OPEB") are \$24.6 billion under funded; and

**WHEREAS** the impact of the growth in pension and OPEB liabilities places additional strain on the State's budget resources as annual contributions comprise over \$1 billion of state funds, with the potential to be many times that amount; and

**WHEREAS** the unfunded liability is considered debt and thus has a negative impact for Connecticut with rating agencies; and

**WHEREAS** providing additional information, resources and potential short and long term plans to our elected officials will assist them in developing strategies for addressing post-employment liabilities; and

**WHEREAS** it is my goal as Governor to work with the business community, legislature and other elected officials to find an effective solution to the problem;

NOW, THEREFORE, I, M. JODI RELL, Governor of the State of Connecticut, by virtue of the authority vested in me by the Constitution and Statutes of the State do hereby ORDER AND DIRECT:

1. That there is established a State Post-Employment Benefits Commission.
2. That the Governor shall appoint representatives to the Commission consisting of representatives of the Office of the Treasurer, Office of the Comptroller, the Office of Policy and Management, the Office of Labor Relations, the State Employees Bargaining Agent Coalition, certified public accountants, certified actuaries, and members of the business community.
3. That the Governor shall appoint the Chairperson.
4. That all appointments should be made by February 15, 2010.
5. That on or before July 1, 2010, the Commission shall deliver a report to the Governor that:
  - a. Identifies the amount and extent of unfunded liabilities for pensions and other post-employment benefits;
  - b. Compares and evaluates the advantages and disadvantages of various approaches for addressing unfunded pension liabilities and post-employment benefits; and
  - c. Proposes a short and long term plan or plans for addressing unfunded pension liabilities and post-employment benefits.
6. That State departments and agencies shall cooperate and provide support to the Commission
7. That the Commission shall comply with applicable Freedom of Information laws, and that all meetings shall take place, whenever possible, in the Legislative Office Building.
8. That this Order shall take effect immediately.

Dated in Hartford, Connecticut, this 3<sup>rd</sup> day of February 2010

M. Jodi Rell  
By Her Excellency's Command

Susan Bysiewicz, Secretary of the State

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**CONNECTICUT STATE EMPLOYEES RETIREMENT SYSTEM  
SUMMARY OF PLAN PROVISIONS**

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This summary of plan provisions is based on our understanding of the benefits as described by the Connecticut General Statutes, summary plan descriptions, and the Connecticut State Employees Retirement System. It is intended only to describe the essential features of the plan. All eligibility requirements and benefit amounts shall be determined in strict accordance with the plan document itself. To the extent that this summary does not accurately reflect the plan provisions, then the results of this valuation may not be accurate.

***1. Membership***

*Tier I [Sec. 5-160]:* Each state employee appointed to classified service shall become a member on the first day of the pay period following permanent appointment.

Each officer elected by the people and each appointee of such officer exempt from classified service may elect to become a member, effective on the first day of the pay period following receipt of such election.

Each other state employee exempt from classified service shall become a member on the first day of the pay period following six months of employment.

Except as noted below, employees hired prior to July 1, 1984 could elect (no later than January 2, 1984) to be covered under either Plan B or Plan C. Employees under contracts with Union Independent and CSEA unions hired prior to October 1, 1982 had until October 1, 1984 to make such election.

*Tier II [Sec. 5-192e]:* Tier II consists of employees first joining the retirement system on or after July 1, 1984 plus employees hired between July 1, 1982 and January 1, 1984 who elected Tier II. Each state employee becomes a member on the first day of employment.

*Tier IIA:* Tier IIA consists of employees first joining the retirement system on or after July 1, 1997.

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2. Normal Retirement Eligibility

Tier I - Hazardous Duty [Sec. 5-173]: 20 years of credited service.

Tier I - Plans B and C [Sec. 5-162]: The 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 [Sec. 5-192] and Tier IIA: 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. Hazardous duty members may retire after 20 years.

3. Normal Retirement Benefit

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

Tier I - Hazardous Duty [Sec. 5-173]: 50% of Final Average Earnings plus 2% for each year of service in excess of 20.

Tier I Plan B [Sec. 5-162]: Same as Plan C up to age 65; thereafter 1% of Final Average Earnings up to \$4,800 plus 2% of Final Average Earnings in excess of \$4,800 times years of service. At age 70, greater of 1.25% of Final Average Earnings up to \$4,800 plus 2.5% of Final Average Earnings in excess of \$4,800 times years of service (maximum 20 years) or 1.0% of Final Average Earnings up to \$4,800 plus 2% of Final Average Earnings in excess of \$4,800 times years of service. Minimum benefit with 25 years is \$833.34 per month.

Tier I Plan C [Sec. 5-162]: 2% of Final Average Earnings times years of service. At age 70, greater of 2.5% of Final Average Earnings time years of service (maximum 20 years) or 2.0% of Final Average Earnings times years of service. Minimum benefit with 25 years is \$833.34 per month.

Tier II Hazardous Duty Members [Sec. 5-192n] and Tier IIA: 2.5% of Final Average Earnings times up to 20 years of service plus 2% of Final Average Earnings times years of service in excess of 20 years, if any. Minimum benefit with 25 years is \$360 per month.

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**CONNECTICUT STATE EMPLOYEES RETIREMENT SYSTEM  
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Tier II All Other [Sec. 5-192l] and Tier IIA:  $1\frac{1}{3}\%$  of Final Average Earnings plus  $\frac{1}{2}\%$  of Final Average Earnings in excess of the year's breakpoint\*, times up to 35 years of service from October 1, 1982 plus  $1\frac{3}{8}\%$  of Final Average Earnings times years of service in excess of 35 years, if any. Minimum benefit with 25 years is \$360 per month.

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

4. Early Retirement

Tier I - Hazardous Duty: None.

Tier I [Sec. 5-162]: Age 55 with 10 years of service; benefit is Normal Retirement Benefit reduced for retirement prior to age 60 with less than 25 years of service.

Tier II [Sec. 5-192m] and Tier IIA: Age 55 with 10 years of vesting service; benefit is Normal Retirement Benefit reduced  $\frac{1}{4}\%$  (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. Minimum benefit with 25 years of service is \$360 per month.

5. Deferred Retirement

Tier I [Sec. 5-162]: May be deferred.

Tier II [Sec. 5-192l] and Tier IIA: May be deferred. Benefit is based on salary and service to actual retirement.

6. Vesting

Tier I [Sec. 5-166]: Ten years of service; benefit is payable at Normal Retirement Age or an early retirement benefit is payable at age 55; in addition employees are always fully vested in their own contributions (after January 1, 1983, Tier I contributions with 5% interest from January 1, 1982).

Tier I - Hazardous Duty [Sec. 5-173(f)]: As above.

Tier II [Sec. 5-192o] and Tier IIA: Effective July 1, 1997, 5 years of actual state service, 10 years of vesting service, or age 70 with 5 years of service; benefit is payable at Normal Retirement Age or an early retirement benefit is payable at age 55. In addition employees are always fully vested in their own contributions with 5% interest.

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**CONNECTICUT STATE EMPLOYEES RETIREMENT SYSTEM  
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7. Member Contributions

<u>Tier I - Hazardous Duty [Sec. 5-161]</u>	4% of earnings up to the Social Security Taxable Wage Base plus 5% of earnings above that level.
<u>Tier I - Plan B [Sec. 5-161]</u>	2% of earnings up to the Social Security Taxable Wage Base plus 5% of earnings above that level.
<u>Tier I - Plan C [Sec. 5-161]</u>	5% of earnings.
<u>Tier II - All Other [Sec. 5-192u]</u>	None.
<u>Tier II - Hazardous Duty [Sec. 5-192u]</u>	4% of earnings.
<u>Tier IIA – All Other</u>	2% of earnings.
<u>Tier IIA – Hazardous Duty</u>	5% of earnings.

8. Cost of Living

[Sec. 5-162b, 5-162d]: Annual adjustment each July 1 of up to 5% for retirements prior to July 1, 1980; 3% for retirements after July 1, 1980. For members (or beneficiaries) not covered by Social Security and age 62 and over, the maximum increase is 6%. If an actuarial surplus (as defined in the law) exists, the Commission may further increase retired benefits.

For employees retiring after June 30, 1999, the annual adjustment will be 60% of the increase in the 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 this formula and a fixed 3% annual adjustment.

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

9. Death Benefits

Tier I - State Police [Sec. 5-146]: Survivor benefits to spouse of \$670 per month plus \$300 to a surviving dependent child (or \$700 to surviving dependent children).

Tier I [Sec. 5-165a]: If eligible for early or normal retirement, spouse benefit is equal to 50% of the average of the Life Benefit and the 50% Joint & Survivor Benefit the member would have received. If not eligible to retire but 25 years of service, the same benefit calculated as though age 55 using service and earnings at death.

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[Sec. 5-168]: If not eligible for retirement, return of contributions (after October 1, 1982, Tier I, with interest from January 1, 1982 at 5%).

Tier II [Sec. 5-192r] and Tier IIA: If eligible for early or normal retirement, spouse benefit is equal to 50% of the member's benefit under a 50% Joint & Survivor Annuity. If not eligible to retire but 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 with 5% interest.

Tiers I [Sec. 5-144], II [Sec. 5-192t] and IIA: If death is due to employment, a spouse with dependent children under 18 will be paid \$100,000 in 10 annual installments while living and not remarried; also \$50 per month per child under age 18. If no children under age 18, spouse [or dependent parent(s), if no spouse] will be paid \$50,000 in not less than 10 annual installments.

**10. Disability Benefits**

Tier I [Sec. 5-142, 5-169, 5-173]: For non-service disabilities occurring prior to age 60 with at least 5 years of service, benefit is 3% of Final Average Earnings times years of service; maximum benefit is 1 $\frac{2}{3}$ % of Final Average Earnings times years of service projected to age 65. If disability occurs prior to age 60 and is due to service, benefit is 1 $\frac{3}{4}$ % of Salary times years of service projected to age 65 (maximum 30 years) and is payable regardless of length of service. Exception: State Police benefit is equal to the normal retirement benefit if more than 20 years of service. State Police receive an additional benefit of \$360 per month plus \$300 to spouse plus \$300 to a surviving dependent child (or \$700 to surviving dependent children).

If in-service disability occurs after the member is eligible for a non-service disability, the member receives the greater of the in-service and non-service disability benefits.

Tier II [5-192p] and Tier IIA: Prior to age 65 and due to service or with at least 10 years of service, benefit is 1 $\frac{1}{3}$ % of Final Average Earnings plus  $\frac{1}{2}$ % of Final Average Earnings in excess of the year's breakpoint, times service projected to age 65 (maximum 30 years) or service to Date of Disability if greater.

Tier I, II, and IIA: Maximum disability benefit is the lesser of 100% of salary less Workers Compensation, Social Security and non-rehabilitation earnings, or 80% of salary less Workers Compensation and Social Security. Social Security is primary plus family.

Minimum disability benefit including Workers Compensation and Social Security is 60% of salary.

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**CONNECTICUT STATE EMPLOYEES RETIREMENT SYSTEM  
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**11. Optional Forms of Payment**

50% or 100% Joint and Survivor (Normal Form if married at least 12 months). Ten years certain and life. Twenty years certain and life. Life (Normal Form if not married at least 12 months).

**12. Part-Time Employment**

[Sec. 5-162g & Sec. 5-192k]: Service is treated as if full-time for eligibility. If member is consistently part-time for all periods, service is treated as if full-time. If member has a varying schedule or some part-time and some full-time service, service and salary are proportionately adjusted.

### Appendix 3 - Changes Made to Pension Plans and OPEB by States in 2010

*Source: Pensions and Retirement Plan Enactments in 2010 State Legislatures, July 19, 2010. National Conference of State Legislatures.*

**Arizona:** Made a number of changes affecting new hires only. Increased the time from 36 months to 60 months to compute the highest average salary as a base for the benefit calculation. For normal retirement eligibility, changes the rule of 80 to the rule of 85 and eliminates refunds of employer contributions for those who voluntarily withdraw from the system. Reduced benefits three percent for every point below the required 85 points in the rule of 85 for early retirees.

**California:** Increased state's contribution level to make up for actuarial losses. Legislature passed a resolution to ask the President and Congress to repeal the Government Pension Offset and the Windfall Elimination Provisions from the Social Security Act. Unions are in negotiations with the Governor's Office to increase the normal retirement age.

**Colorado:** Increased employee contribution from eight percent to 10.5 percent of salary and decreased employer contribution an equal amount. Caps the annual COLA at the lesser of two percent or inflation, with a trigger to reduce the COLA if investment returns are negative. Requires retiree to be retired at least twelve months to receive a COLA, and rules are set to adjust the COLA based on the funded ratio. (A lawsuit has been filed challenging the reduction in benefits as a violation of contract.) Eligibility for retirement for new hires gradually increased by hired date to a required rule of 90 for normal retirement with a minimum age of 60 by 2017. A cap of eight percent is imposed on the annual increase for any year used in the computation of the highest salary for final benefits. Conditions have been placed on refunds for those who voluntarily withdraw from the system. Prevents retirees from returning to work and adding to their previous benefit; a returning retiree will begin a new benefit segment based on the rules in effect at that time, and the returned retiree must make a contribution to the plan.

**Connecticut:** All new employees eligible for health benefits must contribute three percent of salary to cover retiree health benefits. All employees with less than five years of service and who are eligible for health benefits must contribute three percent of salary until they have ten years of service. The State also added the "Rule of 75" (combination of age and service must equal 75) for eligibility for retiree health insurance for those with less than 10 years of service as of July 1, 2009. Executive Order 38 (February 2010) established a State Post-Employment Benefits Commission whose members were appointed by the governor. The commission is to: identify the amount and extent of unfunded liabilities for pensions and other post-employment benefits; compare and evaluate the advantages and disadvantages of various approaches for addressing unfunded pension liabilities and post-employment benefits; and propose a short and long term plan or plans for addressing unfunded pension liabilities and post-employment benefits.

**Delaware:** Enacted provisions to protect benefits of state troopers on military leave, especially if service occurs during the three highest paid years of employment used in the benefit formula.

**Georgia:** If an employee retires before normal retirement age and later returns to work, the original retirement application shall be nullified. If a teacher who retires at normal retirement age returns to work, the returning retiree has two options. The first is to contribute to the plan and prior benefits will



### Appendix 3 — Changes Made to Pension Plans and OPEB by States in 2010—continued

be suspended and new service credits will accrue. The second is to not contribute to the plan and benefits will continue but new service credits will not accrue.

**Hawaii:** Retirees who return to work must be re-enrolled in the pension plan. Certain exceptions and penalties may apply under specific situations. Under certain conditions, additional service credits may not accrue.

**Illinois:** Increased state funding of teacher's fund to provide relief to local school districts and extends amortization by fifteen years. Enacted several new provisions for new employees only. Retirees must be retired at least one year and over the age of 67 to receive a COLA. The COLA will be the lesser of three percent or fifty percent of the CPI, but not negative. The COLA will be paid on the base pension amount and not compounded. The COLA for members of the General Assembly and judges will be at the full CPI. Legislation was adopted setting normal retirement at age 67 with ten years of service, but eight years for judges and the legislature. Early retirement is available at age 62 and ten years of service, with benefits reduced one-half of one percent for every month the retiree is under age 65. Benefits will be based on the average salary of the highest 96 months instead of 48 months. Benefits will be capped at \$106,800 with the cap indexed to the lesser of three percent or one-half the CPI (the CPI for judges and the legislature). The maximum benefit for legislators and judges is capped at 60 percent of final average salary. Survivor's benefits are set at 66 and two-thirds percent of the deceased member's benefit. Enacted new retirement program for new legislators: set normal retirement at age 67 with 8 years of service; bases the final average salary on the highest eight years; caps the final average salary at \$106,800 indexed to inflation; the COLA will be the lesser of three percent or the change in the CPI; the initial benefit is capped at 60 percent of the final average salary; and reduces the multiplier in the benefit formula from five percent to three percent per year. Legislature passed a resolution to ask the President and Congress to repeal the Government Pension Offset and the Windfall Elimination Provisions from the Social Security Act.

**Iowa:** Increases the state contribution for most employees from 7.25 percent to 8.1 percent of salary and employees' contribution from 4.7 percent to 5.35 percent. For police, increase employer contribution from 21 percent by two percent annually until it reaches 37 percent, and increase employee contribution from 9.35 percent by one-half of a percent annually until it reaches 11.35 percent, and increase the state contribution by an additional \$5 million each year until the funding ratio reaches 85 percent. For all employees not vested, vesting will be raised from four to seven years and normal retirement will be raised from age 55 to 65. The final average salary will be based on the highest five years instead of three years. Benefits will be reduced one-half of one percent for each month the employee retires under the age of 65. Enacted an early retirement incentive for those age 55 with ten years of service, with unused vacation time and \$1,000 per year of service paid out equally over five years. Those who accept the incentives may not be rehired in any way.

**Kentucky:** Made changes in qualifications to upgrade requirements for those involved in pension investments. Set up a new trust fund for health benefits, increasing employer payments from pay-as-you-go to begin funding future benefits by matching employee payments. Teachers will pay an additional 0.25 percent of salary for medical benefits each year until they pay three percent in six years. Medicare-eligible retired teachers will continue paying their Part B premiums and those under 65 will

### Appendix 3 - Changes Made to Pension Plans and OPEB by States in 2010--continued

pay an equal amount to the fund which will be deducted from their pensions. The state will pay the net cost of medical insurance for newly-retired teachers who are not Medicare eligible.

**Louisiana:** All state plans will be reorganized with some categories contributing more and some less, but most not changing. For new hires, regular employees will contribute eight percent of salary, hazardous duty 9.5 percent, and judges thirteen percent. The final average salary for new hires will be based on the highest five years and a fifteen percent anti-spiking cap will apply to all new hires. All non-hazardous duty employees will be eligible for normal retirement at age 60 with five years of service or at any age with twenty years but at an actuarially-reduced benefit. All hazardous duty employees will be eligible for normal retirement at any age with 25 years of service or at age 55 with any number of years but at an actuarially-reduced benefit. The accrual rate of benefits per year of service will be 2.5 percent for non-hazardous duty, 3.33 percent for hazardous duty, and 3.5 percent for judges. All retiree benefits will be subject to garnishment for felonies related to public employment. A constitutional amendment has been proposed to require a two-thirds majority of each house to add new retiree benefits which increase costs. Legislature passed a resolution to ask the President and Congress to repeal the Government Pension Offset and the Windfall Elimination Provisions from the Social Security Act.

**Maryland:** Complicated rules were established to reduce pensions if inflation is negative for regular employees. Members of the legislature and judges pensions are linked to the salaries of active judges and legislators. Reemployed retirees will be limited in new earnings allowed if the final average salary at retirement was over \$25,000.

**Michigan:** New teachers will be enrolled in a hybrid defined benefit/defined contribution plan with no COLA. The defined contribution portion will be two percent of salary by the employee with automatic enrollment and an opt-out, with a 50 percent match by the state. Employees may request and receive additional state match for employee contributions over the required two percent up to a total of three percent of salary. Plan provides for a regular interest rate for the hybrid of between 0 percent and seven percent, and assumes a rate of return of seven percent. Final average salary will be based on five rather than three years. Minimum retirement age is being increased to 60 with ten years of service and the purchase of prior service credits will no longer be allowed. Vesting will be graduated and increase each year, reaching full vesting after four years. Enacted early retirement incentives for teachers with a combined age and years of service total of 80 or greater. Those of regular retirement age would receive an additional 0.1 percent per year in the benefit formula and others would receive an additional 0.05 percent. The final average salary is capped at \$90,000 and the cost of the incentive will be amortized over five years. Teachers will contribute three percent of salary into a new trust fund for health benefits for retirees. (A legal challenge has been filed against the requirement for an additional contribution on the grounds of violation of contract.) Reemployed retirees may earn up to one-third of their final average salary at retirement; if earnings are greater than one-third of the final average salary, all prior benefits are suspended.

**Minnesota:** Increased both employer and employee contributions for most employees from six to 6.25 percent. State patrol contributions increased two percent of salary for the employer and three percent for the employees. Police and fire contributions increased from 14.1 to 14.4 percent of salary for employees and from 9.4 to 9.6 percent for the employer. For teachers, both employer and employee rates (currently at 5.5 percent of salary) will increase one-half of one percent of salary annually for four

### Appendix 3 - Changes Made to Pension Plans and OPEB by States in 2010--continued

years. Triggers were established to increase the contributions further if necessary, and to decrease contributions as appropriate. Contribution rates were increased for both employers and employees in certain local school district plans. COLAs are reduced or eliminated based on the funding ratio. (Lawsuits have been filed on this matter.) The compound interest during the deferred period on deferred retirement annuities is reduced by plan based on a formula. Plan vesting periods are increased for new hires by plan from three years to as many as five years or ten for some with partial vesting at five years. The early retirement adjustment factor for new hires only is increased by plan to as much as 2.4 percent per year for some and five percent per year for others. Interest earned on escrow accounts is being eliminated for certain reemployed retirees. Enacted a retirement incentive of health and dental benefits for 24 months with no rehiring of those who accept for three years. Requirements are fifteen years of service and eligibility for benefits under existing plans. Reorganized and merged pension systems and extended the amortization period an additional ten years. Studies were authorized to review investment authority and fiduciary provisions for retirement plans and to review alternatives to the existing defined benefit plans.

**Mississippi:** Increased employee contribution from 7.25 to nine percent of salary with two off-setting benefits. Starting in 2010, employees will accrue one-half day of leave toward retirement service credit, and employees are given a new retirement option of a certain joint and survivor annuity. The service requirement for normal retirement is being increased for new hires only from 30 years to 33 years. Retirees may not return to work for 90 days following retirement. When returning, no new additional service credits may be earned.

**Missouri:** Created a new tier for new employees with a contribution of four percent of salary and other changes for new hires. The normal retirement requirement will be age 67 with ten years of service or the rule of 90 with age of at least 55. Early retirement will be available at age 62 with ten years of service. Service for vesting will be increased from five to ten years. Credited time may no longer be purchased for time served with other governments or the military. Similar changes were made for police, judges and legislators. Enacted a new retirement plan for new legislators: employee contributions will be four percent of salary on a pre-tax basis; normal retirement will be at age 62 with service in at least three biennial assemblies or the rule of 90 with a minimum age of 55. For elected officials, normal retirement is at age 62 with one term of office or the rule of 90 with a minimum age of 55. Enacted provisions to prohibit changes to previously earned benefits and related provisions for current employees, but changes may be made regarding benefits to be earned in the future.

**New Hampshire:** Set up a new trust fund for health benefits for retirees and requires certain employees have 20 years of service to receive health benefits as retirees.

**New Jersey:** Legislation was adopted to require full payment of the ARC each year, but liberally defines what that means. Membership in the pension plan for new hires requires the employee to work at least 35 hours per week. Others may join the defined contribution plan. The multiplier in the benefit formula was reduced for new hires only from 1/55 (1.82 percent) to 1/60 (1.67 percent) per year. Contributions for police and fire new hires will be capped at base salaries equal to the maximum annual wage contribution base for social security. The final average salary for new hires in most plans will be based on the five highest years, increased from three. New plan members will not have a non-forfeitable right to receive benefits after five years of service. New employees will pay 1.5 percent of salary as active and

### Appendix 3 - Changes Made to Pension Plans and OPEB by States in 2010--continued

1.5 percent of pension benefits as retired members of the plan for health benefits. New elected and appointed officials must work at least 35 hours per week to be covered for health care and other new employees must work at least 25 hours.

**New Mexico:** Legislation was adopted to delay by one year a required increase in employer contributions for teachers to provide relief to local school districts. Authorized the release of teacher pension amounts to the public. Retirees may not return to work for twelve months following retirement. Those who return have two options. The first is to make no contribution to the plan, earn no additional service credits, and have benefits suspended. The second is to suspend the pension, make plan contributions and earn new service credits.

**New York:** Enacted an early retirement incentive with the cost amortized over five years. There are two options. Under the first, early retirement reductions are eliminated for those of age 55 with 25 years of service. Under the second, the employee may receive one month additional service applied to the benefit formula for each year of service up to a maximum of three additional years at age 50 with ten years of service, but benefits will be reduced five percent per year for each year under the age of 55.

**Oklahoma:** Enacted a retirement incentive for employees of normal retirement age, offering a health insurance subsidy for 18 months, longevity pay, and \$5,000 in cash. Enacted a new plan for new legislators: employee may choose one of two different plans with the factors to be applied to the benefit formula. The high plan is a ten percent of salary employee contribution with a four percent per year multiplier in the formula, and the low plan is a 4.5 percent contribution with a 1.9 percent multiplier.

**Oregon:** Requires that at least one member of the state retirement board must be either an employee in or a retiree from a bargaining unit.

**Pennsylvania:** All investments in companies doing business in Iran or Sudan will be divested.

**Rhode Island:** Legislation was adopted to eliminate the requirement for ARC payments for pensions for employees and teachers. Adopted legislation limiting COLAs for employees not eligible for benefits by 2010 to the first \$35,000 of benefits, with that limit to be increased annually by the lesser of three percent or inflation. The court upheld the right of the state to reduce health benefits for those who retire before normal retirement age.

**South Dakota:** Refunds will be reduced for those who withdraw from the system. No COLAs during the first year of retirement. COLAs are reduced according to a formula linking the COLA to the funding ratio. Retirees who return to work sooner than 90 days following retirement must repay all benefits received or accept an offsetting actuarial reduction in benefits later. If the retiree returns after 90 days, the employee must contribute to a deferred contribution retirement account, no pay increases will be given, benefits shall be reduced 15 percent, and no additional service credits may be earned during the period of reemployment.

**Tennessee:** Benefits may be forfeit upon conviction of a public service-related felony.

**Texas:** Health insurance costs were increased for retirees.

### Appendix 3 - Changes Made to Pension Plans and OPEB by States in 2010--continued

**Utah:** New employees must choose between a new defined contribution plan and a new hybrid plan. (Current employees remain in the existing plan.) The state will contribute ten percent of salary to the plan, vested after four years. Police and fire employees must contribute twelve percent, vested immediately, but other employees are not required to contribute, but may do so. Legislators and governors must join the defined contribution plan. Under the hybrid, the employer will fund the ARC for the defined benefit portion up to ten percent of salary, with the employee making up the difference if necessary, but the state will cover all amortized liabilities. No benefit may be increased until the plan reaches 100 percent funding. Under the defined contribution component, the state will fund ten percent of salary less the amount paid to the defined benefit component, with the employee making contributions if they wish to do so. Eligibility for the defined benefits is at age 65 with four years of service, 60/20, 62/10, or any age with 35 years of service (25 years for new fire and police employees). Employees have the option of purchasing five years of additional service at retirement. The benefit formula will use the highest five years of salary instead of three, and the multiplier will be 1.5 percent per year for normal retirement. Benefits are reduced for those retiring between the ages of 60 and 65 unless they have 35 years of service. The COLA is equal to the change in the CPI but capped at 2.5 percent, but the excess over 2.5 percent will be carried forward and applied in future years when the increase is not capped. New governors and legislators will only be eligible for the defined contribution plan. Retirees reemployed within one year of retirement will have benefits suspended and earn new service credits. Retirees reemployed after one year have two options. First is to continue to receive benefits but earn no additional service credits. The second is to suspend benefits and earn new service credits.

**Vermont:** Increased the employee contribution for teachers from 3.54 percent to five percent of salary, required the state to fully fund the ARC, and increased the employee contribution from nine to 9.5 percent of salary for certain municipal employees. Normal retirement for teachers is being raised from age 62 to age 65 or the rule of 90, the annual multiplier for years of service in the benefit formula is being increased from 1.67 percent to two percent, the cap on benefits is being raised from 50 percent to 60 percent of final annual compensation, and annual increases are capped at ten percent for identification of the highest paid years in the benefit formula. Adopted new formulas for retiree health eligibility and coverage. The formula for new hires, however, is less generous than for current employees.

**Virginia:** Adopted legislation allowing the state to reduce contributions for two years to equal only normal costs. Unfunded actuarial accrued liabilities not funded would be amortized over ten years and repaid with interest at the actuarially-assumed rate. New employees will begin contributing five percent of salary. The final average salary for new employees will be based on the highest 60 months instead of the highest 36 months. Decreases the time and increases the cost for which new employees may purchase prior service credits. Decreases state contributions for institutions of higher education from 10.4 to 8.5 percent of salaries and requires new employees of higher education to contribute five percent of salary. Early retirement with unreduced benefits will be changed from the rule of 80 to the rule 90 or at the employee's normal retirement age under social security with five years of service. Early retirement will be allowed with reduced benefits at age 60 and five years of service. COLA increases for new hires will be determined by a formula linked to the CPI. New hires who voluntarily leave the plan and are not vested may only have their own contributions refunded. Benefits for new judges will be

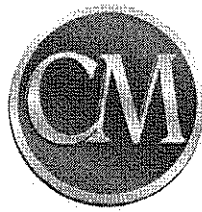
### **Appendix 3 - Changes Made to Pension Plans and OPEB by States in 2010--continued**

based on a new formula using years of service and age at first term of service. Authorized a study to review management of the pension plan and the involvement of minority-owned firms in the process.

**Wyoming:** Regular state employees will begin paying seven percent of salary instead of 5.57 percent and college and university employees will begin paying 7.12 percent of salary instead of 5.68 percent for pensions.

**Puerto Rico:** Established a Commission to reform retirement plans.

**Appendix 4 - Actuarial Projections Related to SERS by Cavanaugh Macdonald Consulting, LLC  
(new actuaries for SERS plan), August 2, 2010**



# Cavanaugh Macdonald

CONSULTING, LLC

*The experience and dedication you deserve*

August 2, 2010

Mr. Robert S. Dakers  
Executive Finance Officer  
State of Connecticut, Office of Policy and Management  
450 Capitol Avenue  
Hartford, CT 06106

**Subject: Projection of State Employees Retirement System**

Dear Bob:

As requested, we have developed several 30-year projections of the State of Connecticut State Employees Retirement System (SERS) and our results are on the attached schedules. Our two baseline projections are developed using two separate amortization period schedules. The first set, as was supplied to you in a letter dated June 21, 2010, utilizes a decreasing 30-year amortization period from June 30, 2010. The 30-year amortization period reflects the effect of the SEBAC IV and V adjustments to the closed amortization period (24 years from June 30, 2008) as if they will persist throughout the projection period. These projections have been revised from the original projections to reflect a modification to the normal cost calculation we previously developed. The second set of projections utilizes the closed amortization period as used in the June 30, 2008 valuation (24 years) and recognizes the SEBAC IV and SEBAC V asset adjustment amortization payments. It is our understanding that these SEBAC adjustments remain in effect throughout the remaining 24-year amortization period.

As a reminder, our projections are based upon the financial and member data as of June 30, 2008 with appropriate adjustments to account for the early retirement incentive offered in 2009 and actual market returns since 2008. In performing the projections, we utilized the actuarial assumptions and methods as used to perform the June 30, 2008 actuarial valuation and we assume all future experience exactly matches with these assumptions.

Attached to this letter are two appendices. Appendix A presents all the projections based on the decreasing 30-year amortization schedule and Appendix B will be for all the projections based on the decreasing 24-year amortization schedule as stated in the June 30, 2008 valuation and the SEBAC adjustments ceasing at 2032.

In each Appendix, Attachment 1 provides the summarized valuation results of the baseline projections and Attachment 2 provides the current and future contribution requirements. These

3550 Busbee Pkwy, Suite 250, Kennesaw, GA 30144

Phone (678) 388-1700 • Fax (678) 388-1730

[www.CavMacConsulting.com](http://www.CavMacConsulting.com)

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attachments include the results under both the level percent of payroll and level dollar amortization methods.

In addition, we were asked to provide 30-year projections on several retirement eligibility scenarios which are summarized as follows:

Scenario	1	2	3	4
Attachments	3 and 4	5 and 6	7 and 8	9 and 10
Tier	II - Non Hazardous	IIA - Non Hazardous	II - Hazardous	IIA - Hazardous
Current Early Retirement Eligibility	Age 55 with 10 years of service	Age 55 with 10 years of service	None	None
Proposed Early Retirement Eligibility	Age 62 with 10 years of service	Age 62 with 20 years of service	None	None
Early Retirement Reduction Change	3% per year to 6% per year	3% per year to 6% per year	None	None
Current Normal Retirement Eligibility	Age 62 and 10 or Age 60 and 25 or Age 70 and 5	Age 62 and 10 or Age 60 and 25 or Age 70 and 5	20 years of service	20 years of service
Proposed Normal Retirement Eligibility	Age 65 and 10 or Age 70 and 5	Age 65 and 10 or Age 70 and 5	25 years of service	Age 55 with 25 years of service

We slightly modified the retirement decrement assumptions as necessary to reasonably anticipate the future behavior under the proposed retirement eligibilities. The results of these projections are included in Attachments 3 through 10.

Also, as provided earlier to you in an email, we have calculated the potential actuarial impact of reductions in the Employer Required Contribution determined as of the June 30, 2008 (prior to the Early Retirement incentive of 2009). The impact to funding is based on all changes being effective for all active members as of June 30, 2008. The following scenarios are:

- For current Tier II and IIA active participants, change the final average pay definition to be based on the last five years of service and not the last three years of service.
- For current Tier II active participants, reduce the assumption on the Cost-of-Living Adjustment (COLA) from 2.75% to 2.00%.
- For current Tier IIA active participants, reduce the assumption on the Cost-of-Living Adjustment (COLA) from 2.75% to 1.50%.
- For current Tier II active participants, add an annual cap of \$150,000 on retirement benefits.
- For current Tier IIA active participants, add an annual cap of \$125,000 on retirement benefits.



The results of these additional scenarios are as follows:

Scenario	Total ARC reduction	Savings in Dollars (millions)
Tier II Final Average 5	0.48%	\$17.4
Tier IIA Final Average 5	0.13%	\$4.7
Tier II COLA change to 2.0%	0.84%	\$30.4
Tier IIA COLA change to 1.5%	0.44%	\$15.9
Tier II Cap of \$150,000	0.01%	\$0.5
Tier IIA Cap of \$125,000	0.00%	\$0.0

The undersigned is a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. Please contact us if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Thomas J. Cavanaugh'.

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

cc: Jeanne Kopek

Enc.



APPENDIX A

Attachment 1

Connecticut SERS  
 30 Year Baseline Projection based on June 30, 2008 Valuation  
 Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
 Recognizes the Early Retirement Incentive of 2009

Valuation Year Ending 6/30/YYY	Fiscal Year Ending 6/30/YYY	Plan Assets at Beginning of Valuation Year	Unfunded Accrued Liability Beginning of Valuation Year	Level Percent of Payroll Amortization Method	Amortization Period	Funded Ratio - Assets / Accrued Liability	Plan Assets at Beginning of Valuation Year	Unfunded Accrued Liability Beginning of Valuation Year	Level Dollar Amortization Method	Funded Ratio - Assets / Accrued Liability	Amortization Period
2008	2010	3,497,445	1,014,096			51.9%	9,990,247	9,253,126		50.9%	30
2009	2011	3,637,942	1,070,474			42.7%	8,787,160	11,794,163	8,787,160	42.7%	30
2010	2012	3,183,848	1,304,721			45.8%	10,177,320	12,027,504	10,177,320	45.8%	30
2011	2013	3,216,695	1,359,478			43.8%	10,514,088	12,468,274	10,514,088	43.8%	29
2012	2014	3,252,331	1,417,478			43.6%	10,374,523	13,438,915	10,374,523	43.6%	28
2013	2015	3,286,589	1,479,923			42.5%	10,468,888	14,188,468	10,468,888	42.5%	27
2014	2016	3,317,006	1,547,841			43.5%	11,093,942	14,413,748	11,093,942	43.5%	26
2015	2017	3,337,815	1,622,443			44.1%	11,631,080	14,720,650	11,631,080	44.1%	25
2016	2018	3,355,923	1,701,354			44.8%	12,166,390	15,019,420	12,166,390	44.8%	24
2017	2019	3,376,632	1,779,770			45.4%	12,708,337	15,298,782	12,708,337	45.4%	23
2018	2020	3,396,579	1,862,420			46.0%	13,256,073	15,554,453	13,256,073	46.0%	22
2019	2021	3,421,570	1,944,621			46.7%	13,811,890	15,776,854	13,811,890	46.7%	21
2020	2022	3,439,823	2,035,373			47.4%	14,368,707	15,954,128	14,368,707	47.4%	20
2021	2023	3,460,915	2,126,613			48.1%	14,925,470	16,080,320	14,925,470	48.1%	19
2022	2024	3,487,572	2,215,823			48.9%	15,486,527	16,182,975	15,486,527	48.9%	18
2023	2025	3,519,754	2,303,799			49.7%	16,056,448	16,225,104	16,056,448	49.7%	17
2024	2026	3,561,025	2,389,685			50.7%	16,641,563	16,212,685	16,641,563	50.7%	16
2025	2027	3,604,586	2,474,736			51.7%	17,246,216	16,128,221	17,246,216	51.7%	15
2026	2028	3,651,491	2,560,164			52.8%	17,873,422	15,966,172	17,873,422	52.8%	14
2027	2029	3,704,617	2,641,245			54.1%	18,530,942	15,719,696	18,530,942	54.1%	13
2028	2030	3,763,216	2,719,256			55.6%	19,225,868	15,376,498	19,225,868	55.6%	12
2029	2031	3,837,498	2,798,095			57.2%	19,973,953	14,940,873	19,973,953	57.2%	11
2030	2032	3,920,591	2,850,389			59.1%	20,791,303	14,392,317	20,791,303	59.1%	10
2031	2033	4,014,693	2,907,051			61.3%	21,693,331	13,726,101	21,693,331	61.3%	9
2032	2034	4,117,089	2,959,612			63.7%	22,694,504	12,923,970	22,694,504	63.7%	8
2033	2035	4,227,474	3,005,218			66.6%	23,814,169	11,971,976	23,814,169	66.6%	7
2034	2036	4,348,830	3,043,889			69.8%	25,072,669	10,860,457	25,072,669	69.8%	6
2035	2037	4,480,604	3,076,731			73.5%	26,490,539	9,574,889	26,490,539	73.5%	5
2036	2038	4,621,869	3,103,220			77.6%	28,090,839	8,096,915	28,090,839	77.6%	4
2037	2039	4,773,502	3,123,427			82.3%	29,898,082	6,411,050	29,898,082	82.3%	3
2038	2040	4,934,070	3,140,208			87.7%	31,935,091	4,498,018	31,935,091	87.7%	2
2039	2041	5,104,120	3,152,182			93.6%	34,226,377	2,339,524	34,226,377	93.6%	1
2040	2042	5,284,124	3,159,009			100.0%	36,794,175	0	36,794,175	100.0%	0

All numbers are in thousands.



**APPENDIX A**

**Attachment 2**

**Connecticut SERS**

**30 Year Baseline Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009**

Valuation Year Ending 6/30/YY	Fiscal Year Ending 6/30/YY	(1) Level Percent of Payroll	(2) Amortization of Unfunded Accrued Liability	(3) Total State Contribution - (1) + (2)	(4) Employee Contribution	(5) Total Contribution - (3) + (4)	(6) Normal Cost	(7) Amortization of Unfunded Accrued Liability	(8) Total State Contribution - (7) + (8)	(9) Employee Contribution	(10) Total Contribution - (9) + (10)
2008	2010	335,323	562,105	897,428	61,876	959,304	335,323	562,105	897,428	61,876	959,304
2009	2011	340,927	689,242	1,030,169	63,816	1,093,985	340,927	1,072,454	1,413,381	63,816	1,477,197
2010	2012	296,280	702,879	999,159	65,889	1,065,048	296,280	1,093,672	1,389,952	65,889	1,455,841
2011	2013	302,249	741,671	1,043,920	68,036	1,111,956	302,249	1,106,828	1,409,077	68,036	1,477,113
2012	2014	306,833	814,576	1,121,409	70,149	1,191,558	306,833	1,166,272	1,473,105	70,149	1,543,254
2013	2015	309,605	877,334	1,186,939	72,094	1,259,033	309,605	1,206,213	1,515,818	72,094	1,587,912
2014	2016	309,174	910,353	1,219,527	74,049	1,293,577	309,174	1,196,289	1,505,463	74,049	1,579,513
2015	2017	308,746	950,936	1,259,682	76,254	1,335,936	308,746	1,193,598	1,502,344	76,254	1,578,598
2016	2018	308,831	993,823	1,302,654	78,523	1,381,177	308,831	1,191,699	1,500,530	78,523	1,579,053
2017	2019	308,197	1,038,589	1,346,786	80,925	1,427,711	308,197	1,189,681	1,497,878	80,925	1,578,803
2018	2020	307,027	1,085,271	1,392,298	83,054	1,475,352	307,027	1,187,414	1,494,441	83,054	1,577,495
2019	2021	303,507	1,133,542	1,437,049	85,339	1,522,388	303,507	1,184,277	1,487,784	85,339	1,573,123
2020	2022	300,755	1,182,946	1,483,701	87,876	1,571,577	300,755	1,179,495	1,480,250	87,876	1,568,126
2021	2023	298,915	1,234,117	1,533,032	90,553	1,623,584	298,915	1,173,843	1,472,758	90,553	1,563,310
2022	2024	298,099	1,287,355	1,585,454	93,429	1,678,883	298,099	1,167,616	1,465,715	93,429	1,559,144
2023	2025	297,404	1,342,646	1,640,050	96,266	1,736,315	297,404	1,160,633	1,458,037	96,266	1,554,302
2024	2026	296,123	1,400,270	1,696,393	99,082	1,795,476	296,123	1,153,083	1,449,206	99,082	1,548,289
2025	2027	294,526	1,459,381	1,753,907	102,052	1,855,959	294,526	1,143,646	1,438,172	102,052	1,540,224
2026	2028	292,733	1,520,149	1,812,882	104,923	1,917,804	292,733	1,132,349	1,425,082	104,923	1,530,004
2027	2029	291,624	1,582,694	1,874,318	108,274	1,982,592	291,624	1,119,159	1,410,783	108,274	1,519,057
2028	2030	293,768	1,646,637	1,940,405	111,757	2,052,161	293,768	1,103,373	1,397,141	111,757	1,508,897
2029	2031	296,560	1,713,433	2,009,993	115,408	2,125,401	296,560	1,086,539	1,383,099	115,408	1,498,507
2030	2032	300,408	1,782,095	2,082,503	119,225	2,201,728	300,408	1,067,068	1,367,476	119,225	1,486,701
2031	2033	305,400	1,853,216	2,158,616	123,219	2,281,835	305,400	1,045,188	1,350,588	123,219	1,473,807
2032	2034	311,307	1,926,435	2,237,742	127,420	2,365,163	311,307	1,019,834	1,331,141	127,420	1,458,562
2033	2035	318,524	2,001,030	2,319,554	131,835	2,451,389	318,524	989,287	1,307,811	131,835	1,439,646
2034	2036	326,738	2,077,602	2,404,340	136,451	2,540,791	326,738	952,861	1,279,699	136,451	1,416,150
2035	2037	335,707	2,156,011	2,491,718	141,288	2,633,006	335,707	908,604	1,244,311	141,288	1,385,599
2036	2038	345,820	2,250,991	2,596,812	146,329	2,727,319	345,820	851,167	1,196,987	146,329	1,343,315
2037	2039	356,545	2,314,008	2,670,553	151,613	2,822,167	356,545	771,319	1,127,864	151,613	1,279,479
2038	2040	368,137	2,387,789	2,755,926	157,150	2,913,076	368,137	641,527	1,009,664	157,150	1,166,814
2039	2041	380,560	2,435,130	2,815,690	162,941	2,978,631	380,560	335,191	745,751	162,941	878,692
2040	2042	393,889	0	393,889	169,014	562,903	393,889	0	393,889	169,014	562,903

All numbers are in thousands

8/2/2010



**APPENDIX A**

**Attachment 3**

**Connecticut SERS  
30 Year Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009  
Modified Retirement Eligibility for Tier II - Non Hazardous**

Valuation Year Ending 6/30/00	Fiscal Year Ending 6/30/00	Annual Payroll	Retiree Payments by Risk Category	(5) Level Percent of Payroll Amortization Method			(6) Funded Ratio - Assets / Accrued Liability			(7) Unfunded Accrued Liability Beginning of Valuation Year			(8) Dollar Amortization Method			Amortization Period
				Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets (Beginning of Valuation Year)	Funded Ratio - Assets / Accrued Liability	Amortization Period	Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Funded Ratio - Assets / Accrued Liability	Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Funded Ratio - Assets / Accrued Liability			
2008	2010	3,497,445	1,014,096	9,253,126	9,930,247	51.9%	30	9,253,126	9,930,247	50.0%	30					
2009	2011	3,637,842	1,070,474	11,794,163	8,787,160	42.7%	30	11,794,163	8,787,160	42.7%	30					
2010	2012	3,220,225	1,290,393	11,514,374	10,177,320	46.9%	30	11,514,374	10,177,320	46.9%	30					
2011	2013	3,273,940	1,336,438	11,702,058	10,547,013	47.4%	29	11,303,351	10,945,719	49.2%	29					
2012	2014	3,326,819	1,386,377	12,643,205	10,387,082	45.1%	28	11,822,359	11,207,928	48.7%	28					
2013	2015	3,379,197	1,440,090	13,376,934	10,454,679	43.9%	27	12,134,132	11,697,481	49.1%	27					
2014	2016	3,429,521	1,498,162	13,588,136	11,080,584	44.9%	26	11,901,661	12,747,060	51.7%	26					
2015	2017	3,469,578	1,563,167	13,879,340	11,590,637	45.5%	25	11,733,963	13,736,013	53.9%	25					
2016	2018	3,500,845	1,633,991	14,163,131	12,127,700	46.1%	24	11,563,047	14,727,784	56.0%	24					
2017	2019	3,539,434	1,703,235	14,428,039	12,681,613	46.8%	23	11,378,099	15,731,553	58.0%	23					
2018	2020	3,569,670	1,778,038	14,670,928	13,250,844	47.5%	22	11,177,866	16,743,906	60.0%	22					
2019	2021	3,609,117	1,851,173	14,881,571	13,839,685	48.2%	21	10,954,664	17,766,592	61.9%	21					
2020	2022	3,642,390	1,932,351	15,049,923	14,442,600	49.0%	20	10,701,334	18,791,188	63.7%	20					
2021	2023	3,674,579	2,015,344	15,179,506	15,058,901	49.8%	19	10,424,844	19,813,564	65.5%	19					
2022	2024	3,709,784	2,098,233	15,268,228	15,692,375	50.7%	18	10,127,124	20,833,480	67.3%	18					
2023	2025	3,747,158	2,181,912	15,309,521	16,346,300	51.6%	17	9,805,813	21,850,008	69.0%	17					
2024	2026	3,789,814	2,264,481	15,298,035	17,026,587	52.7%	16	9,460,120	22,869,964	70.7%	16					
2025	2027	3,825,765	2,352,694	15,062,418	17,731,335	53.8%	15	9,079,794	23,869,964	72.4%	15					
2026	2028	3,863,460	2,441,284	14,827,903	18,462,321	55.1%	14	8,662,223	24,862,516	74.2%	14					
2027	2029	3,897,782	2,533,924	14,500,998	19,217,635	56.5%	13	8,211,843	25,833,695	75.9%	13					
2028	2030	3,933,301	2,627,169	14,087,971	19,998,328	58.0%	12	7,722,092	26,777,235	77.6%	12					
2029	2031	3,984,984	2,713,964	13,569,396	20,814,774	59.6%	11	7,206,877	27,695,568	79.4%	11					
2030	2032	4,042,531	2,796,785	12,937,484	21,678,098	61.5%	10	6,656,641	28,590,853	81.1%	10					
2031	2033	4,114,265	2,871,571	12,603,932	22,603,932	63.6%	9	6,072,253	29,469,163	82.9%	9					
2032	2034	4,195,157	2,941,879	12,179,482	23,604,917	66.0%	8	5,452,188	30,332,211	84.8%	8					
2033	2035	4,283,658	3,005,136	11,278,942	24,698,321	68.7%	7	4,792,260	31,186,003	86.7%	7					
2034	2036	4,386,342	3,060,205	10,226,934	25,903,158	71.7%	6	4,099,459	32,032,633	88.7%	6					
2035	2037	4,503,148	3,107,567	9,016,610	27,239,366	75.1%	5	3,376,989	32,878,987	90.7%	5					
2036	2038	4,632,741	3,145,072	7,622,666	28,731,775	79.0%	4	2,624,047	33,730,394	92.8%	4					
2037	2039	4,776,007	3,173,040	6,033,968	30,406,748	83.4%	3	1,848,863	34,591,154	94.9%	3					
2038	2040	4,930,834	3,194,461	4,229,734	32,288,638	86.4%	2	1,060,569	35,457,803	97.1%	2					
2039	2041	5,096,874	3,208,687	2,195,680	34,402,894	94.0%	1	280,968	36,317,607	99.2%	1					
2040	2042	5,274,529	3,215,464	0	36,772,293	100.0%	0	0	37,129,716	100.0%	0					

All numbers are in thousands



**APPENDIX A**

**Attachment 4**

**Connecticut SERS**

**30 Year Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009  
Modified Retirement Eligibility for Tier II - Non Hazardous**

Valuation Year Ending 6/30/YYYY	Fiscal Year Ending 6/30/YYYY	Level Percent of Payroll Amortization Method				Level Dollar Amortization Method				
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
		Normal Cost	Amortization of Unfunded Accrued Liability	Total Contribution - (9) + (10)	Employee Contribution	Total State Contribution - (7) + (8)	Amortization of Unfunded Accrued Liability	Total State Contribution - (7) + (8)	Employee Contribution	Total Contribution - (9) + (10)
2008	2010	335,323	562,105	958,903	61,475	897,428	562,105	897,428	61,475	958,903
2009	2011	340,927	689,242	1,030,169	63,145	1,413,381	1,072,454	1,413,381	63,145	1,476,526
2010	2012	276,707	672,892	949,599	64,950	276,707	1,047,012	1,323,719	64,950	1,388,668
2011	2013	285,291	696,093	981,384	66,802	1,048,185	1,036,563	1,321,884	66,802	1,388,685
2012	2014	292,454	786,345	1,058,799	68,588	1,127,387	1,094,230	1,386,684	68,588	1,455,272
2013	2015	298,226	827,154	1,125,380	70,204	1,195,584	1,134,494	1,432,720	70,204	1,502,924
2014	2016	301,059	858,209	1,159,268	71,848	1,231,116	1,125,131	1,426,190	71,848	1,498,038
2015	2017	303,664	896,589	1,200,253	73,716	1,273,969	1,122,792	1,426,456	73,716	1,500,172
2016	2018	306,736	937,163	1,243,899	75,673	1,319,572	1,121,223	1,427,959	75,673	1,503,632
2017	2019	309,210	979,477	1,288,687	77,732	1,366,419	1,119,484	1,428,694	77,732	1,506,426
2018	2020	311,307	1,023,626	1,334,933	79,500	1,414,433	1,117,540	1,428,847	79,500	1,508,347
2019	2021	311,809	1,069,231	1,381,040	81,444	1,462,484	1,114,708	1,426,517	81,444	1,507,961
2020	2022	313,445	1,115,902	1,429,347	83,663	1,513,010	1,110,310	1,423,755	83,663	1,507,418
2021	2023	315,812	1,164,258	1,480,070	86,043	1,566,114	1,105,112	1,420,924	86,043	1,506,968
2022	2024	318,918	1,214,587	1,533,505	88,664	1,622,169	1,099,395	1,418,313	88,664	1,506,977
2023	2025	321,731	1,266,880	1,588,611	91,339	1,679,950	1,092,997	1,414,728	91,339	1,506,067
2024	2026	322,586	1,321,272	1,643,858	94,027	1,737,885	1,085,917	1,408,503	94,027	1,502,530
2025	2027	321,885	1,377,057	1,698,942	96,994	1,795,935	1,077,036	1,398,921	96,994	1,495,914
2026	2028	319,649	1,434,102	1,753,751	103,397	1,853,681	1,066,007	1,385,566	99,930	1,485,586
2027	2029	316,631	1,492,906	1,809,537	107,085	1,912,935	1,053,308	1,369,939	103,397	1,473,337
2028	2030	316,108	1,552,881	1,868,989	107,085	1,976,073	1,037,595	1,354,103	107,085	1,461,187
2029	2031	315,917	1,615,608	1,931,525	110,958	2,042,484	1,021,791	1,337,708	110,958	1,448,667
2030	2032	316,369	1,680,199	1,996,568	115,041	2,111,609	1,003,251	1,319,620	115,041	1,434,661
2031	2033	318,117	1,746,869	2,064,986	119,336	2,184,323	982,174	1,300,291	119,336	1,419,628
2032	2034	320,487	1,815,462	2,135,949	123,844	2,259,793	957,762	1,278,269	123,844	1,402,113
2033	2035	324,128	1,885,194	2,209,322	128,582	2,337,885	928,346	1,252,474	128,582	1,381,037
2034	2036	329,305	1,956,792	2,286,097	133,470	2,419,567	893,512	1,222,817	133,470	1,356,287
2035	2037	333,788	2,030,301	2,366,089	138,576	2,504,665	851,369	1,187,157	138,576	1,325,733
2036	2038	344,044	2,104,283	2,448,287	143,871	2,592,168	796,668	1,140,712	143,871	1,284,583
2037	2039	353,515	2,177,579	2,531,094	149,392	2,680,487	720,581	1,074,096	149,392	1,223,489
2038	2040	364,320	2,245,470	2,609,690	155,153	2,764,844	596,774	961,094	155,153	1,116,248
2039	2041	376,374	2,285,307	2,661,781	161,157	2,822,939	304,148	680,522	161,157	841,680
2040	2042	389,689	0	389,689	167,431	557,120	0	389,689	167,431	557,120

All numbers are in thousands



**APPENDIX A**

**Attachment 5**

**Connecticut SERS**  
**30 Year Projection based on June 30, 2008 Valuation**  
**Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter**  
**Recognizes the Early Retirement Incentive of 2009**  
**Modified Retirement Eligibility for Tier IIA - Non Hazardous**

Valuation Year Ending 6/30/09	Fiscal Year Ending 6/30/09	Annual Payroll	Rate of Payments for the Valuation Year	(a) Level Percent of Payroll Amortization Method		(b) Funded Ratio - Assets / Accrued Liability		(c) Amortization Period		Funded Ratio - Assets / Accrued Liability	Amortization Period
				Unfunded Accrued Liability at Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Unfunded Accrued Liability at Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Amortization Period	Amortization Period		
2008	2010	3,497,445	1,014,096	9,253,126	9,990,247	51.9%	30	9,253,126	9,990,247	50.0%	30
2009	2011	3,637,342	1,070,474	11,794,163	8,787,160	42.7%	30	11,794,163	8,787,160	42.7%	30
2010	2012	3,189,564	1,303,345	11,937,164	10,177,320	46.0%	30	11,937,164	10,177,320	46.0%	30
2011	2013	3,227,599	1,356,659	12,262,153	10,518,201	46.2%	29	11,863,447	10,916,907	47.9%	29
2012	2014	3,270,357	1,412,842	13,221,402	10,362,251	43.9%	28	12,366,263	11,197,390	47.5%	28
2013	2015	3,312,527	1,473,259	13,966,757	10,433,335	42.8%	27	12,689,706	11,710,395	48.0%	27
2014	2016	3,351,187	1,538,902	14,188,824	11,034,385	43.8%	26	12,447,436	12,775,782	50.7%	26
2015	2017	3,382,324	1,610,657	14,494,283	11,548,087	44.3%	25	12,273,365	13,769,005	52.9%	25
2016	2018	3,412,554	1,686,402	14,793,776	12,060,741	44.9%	24	12,097,708	14,756,810	55.0%	24
2017	2019	3,448,545	1,761,291	15,075,862	12,581,668	45.5%	23	11,909,649	15,747,881	56.9%	23
2018	2020	3,481,117	1,840,064	15,336,791	13,110,849	46.1%	22	11,707,940	16,740,300	58.9%	22
2019	2021	3,516,187	1,919,167	15,561,842	13,650,197	46.7%	21	11,478,638	17,733,401	60.7%	21
2020	2022	3,542,667	2,007,519	15,740,824	14,191,931	47.4%	20	11,216,105	18,716,450	62.5%	20
2021	2023	3,569,009	2,096,531	15,876,696	14,734,239	48.1%	19	10,926,970	19,689,966	64.3%	19
2022	2024	3,600,122	2,184,263	15,968,061	15,280,204	48.9%	18	10,613,514	20,634,751	66.0%	18
2023	2025	3,636,191	2,270,399	16,009,812	15,834,305	49.7%	17	10,275,308	21,566,810	67.7%	17
2024	2026	3,680,051	2,354,676	15,996,983	16,402,268	50.6%	16	9,912,117	22,487,034	69.4%	16
2025	2027	3,723,950	2,438,760	15,910,514	16,987,487	51.6%	15	9,510,513	23,387,488	71.1%	15
2026	2028	3,773,364	2,521,991	15,750,638	17,593,718	52.8%	14	9,076,325	24,268,031	72.8%	14
2027	2029	3,828,312	2,600,931	15,507,962	18,228,335	54.0%	13	8,607,469	25,129,127	74.5%	13
2028	2030	3,887,537	2,676,940	15,167,791	18,898,538	55.5%	12	8,095,815	25,970,514	76.2%	12
2029	2031	3,953,377	2,743,248	14,737,267	19,620,292	57.1%	11	7,557,706	26,799,853	78.0%	11
2030	2032	4,048,349	2,803,302	14,196,495	20,409,049	59.0%	10	6,982,351	27,623,194	79.8%	10
2031	2033	4,147,074	2,855,881	13,541,360	21,282,131	61.1%	9	6,375,634	28,447,857	81.7%	9
2032	2034	4,254,408	2,903,408	12,754,193	22,255,277	63.6%	8	5,731,328	29,278,142	83.6%	8
2033	2035	4,366,685	2,944,959	11,815,018	23,347,437	66.4%	7	5,042,160	30,120,295	85.7%	7
2034	2036	4,488,768	2,980,700	10,716,149	24,578,011	69.6%	6	4,314,999	30,979,160	87.8%	6
2035	2037	4,620,970	3,010,938	9,443,692	25,966,822	73.3%	5	3,552,841	31,857,673	90.0%	5
2036	2038	4,759,677	3,035,811	7,974,840	27,535,031	77.5%	4	2,752,359	32,757,562	92.3%	4
2037	2039	4,907,405	3,055,264	6,296,542	29,305,008	82.3%	3	1,923,736	33,677,814	94.6%	3
2038	2040	5,063,463	3,071,347	4,394,739	31,296,056	87.7%	2	1,082,249	34,608,546	97.0%	2
2039	2041	5,227,474	3,083,259	2,252,686	33,527,448	93.7%	1	251,321	35,528,813	99.3%	1
2040	2042	5,399,438	3,092,206	0	36,011,809	100.0%	0	0	36,394,592	100.0%	0

All numbers are in thousands.



APPENDIX A

Attachment 6

Connecticut SERS  
 30 Year Projection based on June 30, 2008 Valuation  
 Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
 Recognizes the Early Retirement Incentive of 2009  
 Modified Retirement Eligibility for Tier IIA - Non-Hazardous

Valuation Year Ending 6/30/YYY	Fiscal Year Ending 6/30/YYY	(1) Normal Cost	(2) Amortization of Unfunded Accrued Liability	(3) Total State Contribution - (7) + (8)	(4) Employee Contributions	(5) Total Contribution - (3) + (4)	(6) Normal Cost	(7) Amortization of Unfunded Accrued Liability	(8) Total State Contribution - (7) + (8)	(9) Total State Contribution - (7) + (8)	(10) Employee Contributions	(11) Total Contribution - (9) + (10)
2008	2010	335,323	562,105	897,428	61,952	959,380	335,323	562,105	897,428	897,428	61,952	959,380
2009	2011	340,927	689,242	1,030,169	63,982	1,094,151	340,927	1,072,454	1,413,381	1,413,381	63,982	1,477,363
2010	2012	280,859	697,599	978,458	66,171	1,044,628	280,859	1,085,457	1,366,316	1,366,316	66,171	1,432,486
2011	2013	286,331	729,410	1,015,741	68,439	1,084,179	286,331	1,087,926	1,374,257	1,374,257	68,439	1,442,695
2012	2014	290,601	801,392	1,091,993	70,673	1,162,666	290,601	1,146,422	1,437,023	1,437,023	70,673	1,507,696
2013	2015	293,029	863,625	1,156,654	72,772	1,229,426	293,029	1,186,439	1,479,468	1,479,468	72,772	1,552,240
2014	2016	292,368	896,147	1,188,535	74,905	1,263,440	292,368	1,176,727	1,469,115	1,469,115	74,905	1,544,020
2015	2017	292,017	936,313	1,228,330	77,301	1,305,631	292,017	1,174,405	1,466,422	1,466,422	77,301	1,543,723
2016	2018	292,360	978,893	1,271,253	79,777	1,351,030	292,360	1,173,067	1,465,427	1,465,427	79,777	1,545,204
2017	2019	292,197	1,023,456	1,315,653	82,291	1,397,944	292,197	1,171,783	1,463,980	1,463,980	82,291	1,546,271
2018	2020	291,250	1,070,085	1,361,335	84,488	1,445,823	291,250	1,170,476	1,461,726	1,461,726	84,488	1,546,214
2019	2021	287,532	1,118,108	1,405,640	86,790	1,492,430	287,532	1,169,025	1,455,557	1,455,557	86,790	1,542,347
2020	2022	284,263	1,167,115	1,451,378	89,297	1,540,675	284,263	1,163,720	1,447,983	1,447,983	89,297	1,537,280
2021	2023	281,672	1,217,732	1,499,404	91,936	1,591,340	281,672	1,158,341	1,440,013	1,440,013	91,936	1,531,949
2022	2024	280,002	1,270,258	1,550,260	94,742	1,645,002	280,002	1,152,197	1,432,199	1,432,199	94,742	1,526,941
2023	2025	278,350	1,324,830	1,603,180	97,457	1,700,637	278,350	1,145,329	1,423,679	1,423,679	97,457	1,521,136
2024	2026	275,848	1,381,631	1,657,479	100,179	1,757,658	275,848	1,137,801	1,413,649	1,413,649	100,179	1,513,828
2025	2027	273,101	1,439,682	1,712,783	103,027	1,815,810	273,101	1,128,128	1,401,229	1,401,229	103,027	1,504,256
2026	2028	270,331	1,499,628	1,769,959	105,743	1,875,702	270,331	1,116,968	1,387,299	1,387,299	105,743	1,493,042
2027	2029	268,092	1,561,376	1,829,468	108,947	1,938,415	268,092	1,104,015	1,372,107	1,372,107	108,947	1,481,054
2028	2030	269,065	1,624,287	1,893,352	112,284	2,005,636	269,065	1,088,231	1,357,296	1,357,296	112,284	1,469,580
2029	2031	270,784	1,690,106	1,960,890	115,830	2,076,720	270,784	1,071,531	1,342,315	1,342,315	115,830	1,458,145
2030	2032	273,808	1,757,848	2,031,656	119,537	2,151,193	273,808	1,052,340	1,326,148	1,326,148	119,537	1,445,685
2031	2033	278,195	1,828,407	2,106,602	123,365	2,229,967	278,195	1,031,245	1,309,440	1,309,440	123,365	1,432,805
2032	2034	283,643	1,901,128	2,184,771	127,371	2,312,142	283,643	1,006,818	1,290,461	1,290,461	127,371	1,417,832
2033	2035	290,516	1,974,796	2,265,312	131,578	2,396,891	290,516	976,756	1,267,272	1,267,272	131,578	1,398,851
2034	2036	298,188	2,049,996	2,348,184	135,930	2,484,114	298,188	940,491	1,238,679	1,238,679	135,930	1,374,609
2035	2037	305,095	2,126,469	2,426,564	140,480	2,573,044	305,095	895,703	1,201,798	1,201,798	140,480	1,342,278
2036	2038	314,623	2,201,471	2,516,094	145,217	2,661,311	314,623	835,623	1,150,246	1,150,246	145,217	1,296,463
2037	2039	323,505	2,272,677	2,596,182	150,167	2,746,349	323,505	749,844	1,073,349	1,073,349	150,167	1,223,516
2038	2040	333,203	2,332,963	2,666,166	155,332	2,821,498	333,203	688,973	942,176	942,176	155,332	1,097,508
2039	2041	343,331	2,344,743	2,688,074	160,774	2,848,847	343,331	272,055	615,366	615,366	160,774	776,169
2040	2042	354,072	0	354,072	166,487	520,560	354,072	0	354,072	354,072	166,487	520,560

All numbers are in thousands





APPENDIX A

Attachment 7

Connecticut SERS  
 30 Year Projection based on June 30, 2008 Valuation  
 Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
 Recognizes the Early Retirement Incentive of 2009  
 Modified Retirement Eligibility for Tier II - Hazardous

Valuation Year Ending 6/30/YYY	Fiscal Year Ending 6/30/YYY	Annual Payroll	Retiree Payments to the Valuation Year	(4) Level Dollar Amortization Method			(5) Funded Assets/Liability			Amortization Period	Funded Ratio = Assets/Liability	Amortization Period
				Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Funded Ratio = Assets/Liability	Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Funded Ratio = Assets/Liability			
2008	2010	3,497,445	1,014,096	9,253,126	9,990,247	51.9%	9,253,126	9,990,247	30	50.0%	30	
2009	2011	3,637,342	1,070,474	11,794,163	8,787,160	42.7%	11,794,163	8,787,160	30	42.7%	30	
2010	2012	3,194,936	1,296,204	11,726,512	10,177,320	46.5%	11,726,512	10,177,320	30	46.5%	30	
2011	2013	3,238,639	1,343,147	12,008,538	10,538,344	46.7%	11,607,832	10,937,050	29	48.5%	29	
2012	2014	3,284,240	1,393,203	12,956,756	10,391,747	44.5%	12,128,738	11,219,765	28	48.1%	28	
2013	2015	3,328,914	1,447,129	13,694,768	10,480,148	43.4%	12,433,986	11,740,920	27	48.6%	27	
2014	2016	3,372,259	1,504,796	13,908,532	11,111,264	44.4%	12,193,875	12,826,921	26	51.3%	26	
2015	2017	3,409,143	1,566,764	14,204,878	11,673,357	45.1%	12,019,189	13,859,045	25	53.6%	25	
2016	2018	3,438,643	1,635,946	14,493,598	12,250,405	45.8%	11,842,254	14,901,750	24	56.7%	24	
2017	2019	3,470,271	1,707,642	14,763,376	12,848,441	46.5%	11,651,431	15,960,386	23	57.8%	23	
2018	2020	3,497,287	1,783,154	15,010,748	13,467,098	47.3%	11,445,148	17,032,698	22	59.8%	22	
2019	2021	3,523,476	1,864,351	15,226,661	14,103,219	48.1%	11,216,936	18,112,944	21	61.8%	21	
2020	2022	3,535,784	1,960,173	15,399,609	14,742,289	48.9%	10,958,237	19,183,661	20	63.6%	20	
2021	2023	3,545,864	2,060,631	15,532,850	15,376,845	49.8%	10,675,781	20,233,915	19	65.5%	19	
2022	2024	3,565,884	2,157,043	15,624,257	16,011,556	50.6%	10,371,541	21,264,273	18	67.2%	18	
2023	2025	3,587,111	2,255,612	15,666,997	16,647,000	51.5%	10,042,990	22,271,007	17	68.9%	17	
2024	2026	3,620,615	2,349,890	15,657,147	17,290,352	52.5%	9,690,869	23,256,630	16	70.6%	16	
2025	2027	3,656,512	2,443,615	15,577,129	17,945,415	53.5%	9,302,821	24,219,723	15	72.3%	15	
2026	2028	3,696,721	2,537,095	15,422,039	18,615,086	54.7%	8,879,683	25,157,442	14	73.9%	14	
2027	2029	3,743,096	2,626,460	15,185,106	19,306,383	56.0%	8,421,403	26,070,086	13	75.6%	13	
2028	2030	3,795,919	2,712,089	14,854,335	20,026,346	57.4%	7,923,385	26,957,297	12	77.3%	12	
2029	2031	3,863,676	2,789,235	14,434,285	20,789,268	59.0%	7,398,354	27,825,199	11	79.0%	11	
2030	2032	3,940,654	2,859,351	13,905,104	21,610,806	60.9%	6,835,530	28,680,281	10	80.8%	10	
2031	2033	4,029,075	2,923,766	13,261,266	22,505,555	62.9%	6,239,500	29,527,321	9	82.6%	9	
2032	2034	4,126,909	2,982,966	12,488,013	23,468,221	65.3%	5,606,453	30,369,782	8	84.4%	8	
2033	2035	4,232,922	3,034,863	11,588,609	24,577,765	68.0%	4,932,274	31,214,100	7	86.4%	7	
2034	2036	4,350,935	3,078,546	10,494,755	25,794,943	71.1%	4,222,935	32,066,784	6	88.4%	6	
2035	2037	4,479,903	3,115,700	9,252,702	27,160,249	74.6%	3,481,146	33,931,803	5	90.4%	5	
2036	2038	4,618,906	3,145,389	7,824,468	28,696,968	78.6%	2,707,935	34,813,501	4	92.6%	4	
2037	2039	4,768,623	3,167,863	6,195,155	30,429,828	83.1%	1,911,098	34,713,885	3	94.8%	3	
2038	2040	4,927,586	3,186,187	4,346,012	32,381,713	88.2%	1,100,438	35,627,287	2	97.0%	2	
2039	2041	5,096,356	3,198,752	2,259,454	34,577,205	93.9%	287,576	36,539,083	1	99.2%	1	
2040	2042	5,275,204	3,205,537	0	37,038,395	100.0%	0	37,405,994	0	100.0%	0	

All numbers are in thousands



**APPENDIX A**

**Attachment B**

**Connecticut SERS**

**30 Year Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009  
Modified Retirement Eligibility for Tier II - Hazardous**

Valuation Year Ending 6/30/YY	Fiscal Year Ending 6/30/YY	(1) Normal Cost	(2) Amortization of Unfunded Accrued Liability	(3) Total State Contribution - (7) + (8)	(4) Employee Contributions	(5) Total Contribution - (9) + (10)	(6) Normal Cost	(7) Amortization of Unfunded Accrued Liability	(8) Total State Contribution - (7) + (8)	(9) Employee Contribution	(10) Total Contribution - (9) + (10)	(11) Total Contribution - (9) + (10)
2008	2010	335,323	562,105	897,428	62,381	959,809	335,323	562,105	897,428	62,381	959,809	959,809
2009	2011	340,927	689,242	1,030,169	64,788	1,094,957	340,927	1,072,454	1,413,381	64,788	1,478,169	1,478,169
2010	2012	281,283	685,289	966,572	67,325	1,033,897	281,283	1,066,302	1,347,585	67,325	1,414,910	1,414,910
2011	2013	289,710	714,205	1,003,915	69,953	1,073,868	289,710	1,064,485	1,354,195	69,953	1,424,148	1,424,148
2012	2014	297,240	785,351	1,082,591	72,660	1,155,252	297,240	1,122,587	1,419,827	72,660	1,492,488	1,492,488
2013	2015	303,794	846,807	1,150,601	75,347	1,225,948	303,794	1,162,531	1,466,325	75,347	1,541,672	1,541,672
2014	2016	308,551	878,508	1,187,059	77,884	1,264,943	308,551	1,152,756	1,461,307	77,884	1,539,191	1,539,191
2015	2017	312,967	917,618	1,230,585	80,470	1,311,054	312,967	1,150,084	1,463,051	80,470	1,543,520	1,543,520
2016	2018	316,766	959,030	1,275,796	83,169	1,358,965	316,766	1,148,297	1,465,063	83,169	1,548,232	1,548,232
2017	2019	320,006	1,092,242	1,322,248	85,645	1,407,892	320,006	1,146,377	1,466,363	85,645	1,552,027	1,552,027
2018	2020	321,251	1,047,336	1,368,587	87,521	1,456,108	321,251	1,144,262	1,465,513	87,521	1,553,034	1,553,034
2019	2021	318,786	1,094,026	1,412,212	89,342	1,501,554	318,786	1,141,395	1,459,581	89,342	1,548,923	1,548,923
2020	2022	314,415	1,141,830	1,456,245	91,553	1,547,798	314,415	1,136,965	1,451,380	91,553	1,542,933	1,542,933
2021	2023	311,653	1,191,360	1,503,013	93,730	1,596,743	311,653	1,131,713	1,443,366	93,730	1,537,096	1,537,096
2022	2024	309,079	1,242,909	1,551,988	96,247	1,648,234	309,079	1,125,929	1,435,008	96,247	1,531,254	1,531,254
2023	2025	307,015	1,286,462	1,603,477	98,724	1,702,200	307,015	1,119,433	1,426,448	98,724	1,525,171	1,525,171
2024	2026	304,270	1,352,288	1,656,558	101,221	1,757,779	304,270	1,112,404	1,416,674	101,221	1,517,895	1,517,895
2025	2027	301,449	1,409,515	1,710,964	103,864	1,814,829	301,449	1,103,491	1,404,940	103,864	1,508,805	1,508,805
2026	2028	298,384	1,468,342	1,766,726	106,449	1,873,175	298,384	1,092,769	1,391,153	106,449	1,497,602	1,497,602
2027	2029	296,193	1,528,870	1,825,063	109,478	1,934,541	296,193	1,080,188	1,376,381	109,478	1,486,859	1,486,859
2028	2030	297,125	1,590,719	1,887,844	112,656	2,000,500	297,125	1,065,053	1,362,178	112,656	1,474,834	1,474,834
2029	2031	298,758	1,655,359	1,954,117	116,020	2,070,137	298,758	1,048,938	1,347,696	116,020	1,463,716	1,463,716
2030	2032	301,519	1,721,767	2,023,286	119,604	2,142,890	301,519	1,030,227	1,331,746	119,604	1,451,350	1,451,350
2031	2033	305,649	1,790,587	2,096,236	123,375	2,219,612	305,649	1,009,225	1,314,874	123,375	1,438,250	1,438,250
2032	2034	310,701	1,861,451	2,172,152	127,404	2,299,556	310,701	984,881	1,295,582	127,404	1,422,986	1,422,986
2033	2035	317,280	1,933,610	2,250,890	131,676	2,382,565	317,280	955,469	1,272,749	131,676	1,404,424	1,404,424
2034	2036	324,923	2,007,643	2,332,566	136,180	2,466,746	324,923	920,425	1,245,348	136,180	1,381,528	1,381,528
2035	2037	333,496	2,083,463	2,416,959	140,927	2,557,886	333,496	877,628	1,211,124	140,927	1,352,051	1,352,051
2036	2038	343,460	2,159,961	2,503,421	145,897	2,649,318	343,460	822,136	1,165,696	145,897	1,311,493	1,311,493
2037	2039	354,037	2,236,083	2,590,120	151,130	2,741,251	354,037	744,918	1,098,955	151,130	1,250,086	1,250,086
2038	2040	365,600	2,307,096	2,672,696	156,622	2,829,318	365,600	619,208	984,808	156,622	1,141,430	1,141,430
2039	2041	377,782	2,351,787	2,729,782	162,369	2,892,152	377,782	322,126	700,121	162,369	862,491	862,491
2040	2042	391,504	0	391,504	168,398	559,903	391,504	0	391,504	168,398	559,903	559,903

All numbers are in thousands



APPENDIX A

Attachment 9

Connecticut SERS  
 30 Year Projection based on June 30, 2008 Valuation  
 Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
 Recognizes the Early Retirement Incentive of 2009  
 Modified Retirement Eligibility for Tier I/A - Hazardous

Valuation Year Ending 6/30/00	Fiscal Year Ending 6/30/YY	Annual Payroll	Reserve Payments for the Valuation Year	Level Percent of Payroll Amortization Method			Level Dollar Amortization Method			Amortization Period	Funded Ratio - Assets / Accrued Liability	Funded Ratio - Assets / Accrued Liability	Amortization Period	
				Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Funded Ratio - Assets / Accrued Liability	Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Funded Ratio - Assets / Accrued Liability					
2008	2010	3,497,445	1,014,096	9,253,126	9,950,247	51.9%	9,253,126	9,950,247	30	50.0%	9,253,126	9,950,247	30	
2009	2011	3,637,342	1,070,474	11,794,163	8,787,160	42.7%	11,794,163	8,787,160	30	42.7%	11,794,163	8,787,160	30	
2010	2012	3,183,279	1,304,684	10,177,320	10,177,320	46.0%	11,943,823	10,177,320	30	46.0%	11,943,823	10,177,320	30	
2011	2013	3,216,458	1,359,423	12,282,383	10,514,140	46.1%	12,282,383	10,514,140	29	46.1%	11,883,677	10,912,847	29	
2012	2014	3,251,734	1,417,385	13,236,468	10,352,845	43.9%	13,236,468	10,352,845	28	43.9%	12,401,101	11,188,210	28	
2013	2015	3,285,833	1,479,788	13,973,888	10,415,305	42.7%	13,973,888	10,415,305	27	42.7%	12,695,915	11,693,278	27	
2014	2016	3,316,075	1,547,652	14,186,541	11,002,475	43.7%	14,186,541	11,002,475	26	43.7%	12,443,675	12,745,341	26	
2015	2017	3,338,987	1,622,063	14,480,316	11,495,426	44.3%	14,480,316	11,495,426	25	44.3%	12,257,653	13,748,089	25	
2016	2018	3,355,059	1,700,681	14,765,307	11,979,534	44.8%	14,765,307	11,979,534	24	44.8%	12,067,570	14,677,271	24	
2017	2019	3,376,101	1,778,570	15,030,489	12,462,668	45.3%	15,030,489	12,462,668	23	45.3%	11,863,096	15,630,062	23	
2018	2020	3,396,527	1,860,564	15,271,600	12,943,174	45.9%	15,271,600	12,943,174	22	45.9%	11,641,951	16,572,823	22	
2019	2021	3,426,389	1,938,951	15,485,991	13,428,037	46.4%	15,485,991	13,428,037	21	46.4%	11,404,133	17,507,895	21	
2020	2022	3,457,606	2,019,297	15,670,627	13,911,993	47.0%	15,670,627	13,911,993	20	47.0%	11,149,635	18,432,985	20	
2021	2023	3,493,034	2,098,781	15,819,114	14,404,618	47.7%	15,819,114	14,404,618	19	47.7%	10,875,422	19,348,310	19	
2022	2024	3,533,976	2,176,265	15,924,975	14,810,091	48.4%	15,924,975	14,810,091	18	48.4%	10,578,736	20,256,329	18	
2023	2025	3,581,445	2,250,908	15,983,924	15,435,932	49.1%	15,983,924	15,435,932	17	49.1%	10,259,505	21,160,361	17	
2024	2026	3,634,232	2,326,184	15,983,611	15,996,815	50.0%	15,983,611	15,996,815	16	50.0%	9,910,124	22,060,303	16	
2025	2027	3,684,644	2,405,337	15,903,818	16,562,448	51.0%	15,903,818	16,562,448	15	51.0%	9,515,631	22,950,635	15	
2026	2028	3,740,182	2,482,856	15,749,714	17,167,202	52.2%	15,749,714	17,167,202	14	52.2%	9,087,236	23,829,680	14	
2027	2029	3,805,026	2,563,926	15,516,293	17,811,726	53.4%	15,516,293	17,811,726	13	53.4%	8,627,050	24,700,970	13	
2028	2030	3,877,347	2,620,570	15,190,267	18,506,436	54.9%	15,190,267	18,506,436	12	54.9%	8,129,304	25,567,399	12	
2029	2031	3,958,989	2,680,760	14,787,037	19,265,314	56.6%	14,787,037	19,265,314	11	56.6%	7,597,618	26,434,733	11	
2030	2032	4,043,831	2,738,617	14,222,815	20,100,446	58.6%	14,222,815	20,100,446	10	58.6%	7,017,469	27,305,792	10	
2031	2033	4,134,539	2,794,337	13,552,770	21,022,057	60.8%	13,552,770	21,022,057	9	60.8%	6,394,233	28,180,594	9	
2032	2034	4,232,496	2,846,751	12,747,777	22,041,935	63.4%	12,747,777	22,041,935	8	63.4%	5,730,578	29,059,134	8	
2033	2035	4,333,549	2,895,773	11,786,738	23,173,894	66.3%	11,786,738	23,173,894	7	66.3%	5,018,486	29,942,146	7	
2034	2036	4,452,714	2,933,541	10,676,664	24,440,878	69.6%	10,676,664	24,440,878	6	69.6%	4,278,843	30,837,899	6	
2035	2037	4,579,707	2,967,529	9,391,930	25,859,542	73.4%	9,391,930	25,859,542	5	73.4%	3,505,401	31,746,071	5	
2036	2038	4,715,925	2,995,347	7,919,767	27,452,121	77.6%	7,919,767	27,452,121	4	77.6%	2,702,144	32,669,744	4	
2037	2039	4,862,341	3,016,931	6,246,080	29,240,634	82.4%	6,246,080	29,240,634	3	82.4%	1,878,850	33,607,865	3	
2038	2040	5,017,624	3,035,365	4,353,354	31,244,744	87.8%	4,353,354	31,244,744	2	87.8%	1,046,944	34,551,155	2	
2039	2041	5,182,650	3,048,737	2,228,232	33,485,002	93.8%	2,228,232	33,485,002	1	93.8%	232,702	35,480,532	1	
2040	2042	5,357,606	3,057,048	0	35,975,088	100.0%	0	35,975,088	0	100.0%	0	36,343,752	0	0

All numbers are in thousands.

8/2/2010



APPENDIX A

Attachment 10

Connecticut SERS

30 Year Projection based on June 30, 2008 Valuation  
 Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
 Recognizes the Early Retirement Incentive of 2009  
 Modified Retirement Eligibility for Tier IIA - Hazardous

Valuation Year Ending 6/30/YY	Fiscal Year Ending 6/30/YY	(1) Normal Cost	(2) Amortization of Unfunded Accrued Liability	(3) Total State Contribution - (7) - (8)	(4) Employee Contribution	(5) Total Contribution - (6) - (10)	(6) Normal Cost	(7) Amortization of Unfunded Accrued Liability	(8) Total State Contribution - (7) - (8)	(9) Employee Contribution	(10) Total Contribution - (9) - (10)
2008	2010	335,323	562,105	897,428	61,863	959,291	335,323	562,105	897,428	61,863	959,291
2009	2011	340,927	669,242	1,030,169	63,794	1,093,963	340,927	1,072,454	1,413,381	63,794	1,477,175
2010	2012	280,222	697,988	978,210	65,860	1,044,071	280,222	1,085,063	1,366,285	65,860	1,432,146
2011	2013	284,266	730,613	1,014,879	68,000	1,082,879	284,266	1,089,781	1,374,047	68,000	1,442,047
2012	2014	286,800	802,305	1,089,105	70,104	1,159,210	286,800	1,147,796	1,434,596	70,104	1,504,701
2013	2015	287,310	864,066	1,151,376	72,052	1,223,427	287,310	1,187,019	1,474,329	72,052	1,546,380
2014	2016	284,441	896,003	1,180,444	74,015	1,254,459	284,441	1,176,371	1,460,812	74,015	1,534,827
2015	2017	281,369	935,411	1,216,780	76,244	1,293,024	281,369	1,172,902	1,454,271	76,244	1,530,515
2016	2018	278,626	977,009	1,255,635	78,548	1,334,183	278,626	1,170,145	1,448,771	78,548	1,527,319
2017	2019	275,113	1,020,375	1,295,488	81,246	1,376,734	275,113	1,167,202	1,442,315	81,246	1,523,561
2018	2020	272,036	1,065,536	1,337,572	84,193	1,421,765	272,036	1,163,938	1,435,974	84,193	1,520,167
2019	2021	269,073	1,112,658	1,381,731	87,393	1,469,125	269,073	1,160,444	1,429,517	87,393	1,516,911
2020	2022	267,175	1,161,925	1,429,100	90,796	1,519,896	267,175	1,156,823	1,423,998	90,796	1,514,794
2021	2023	266,274	1,213,316	1,479,590	94,445	1,574,035	266,274	1,152,876	1,419,150	94,445	1,513,595
2022	2024	266,779	1,266,831	1,533,610	98,074	1,631,684	266,779	1,148,422	1,415,201	98,074	1,513,275
2023	2025	266,901	1,322,688	1,589,589	101,353	1,690,942	266,901	1,143,567	1,410,468	101,353	1,511,821
2024	2026	265,960	1,380,485	1,646,045	104,762	1,750,806	265,960	1,137,572	1,403,132	104,762	1,507,893
2025	2027	264,578	1,439,076	1,703,654	108,494	1,812,148	264,578	1,128,735	1,393,313	108,494	1,501,807
2026	2028	264,121	1,499,540	1,763,661	112,259	1,875,921	264,121	1,118,311	1,382,432	112,259	1,494,692
2027	2029	264,277	1,562,215	1,826,492	116,208	1,942,700	264,277	1,106,565	1,370,842	116,208	1,487,050
2028	2030	266,995	1,626,693	1,893,686	119,984	2,013,672	266,995	1,092,732	1,359,727	119,984	1,479,711
2029	2031	269,111	1,693,520	1,962,631	123,659	2,086,289	269,111	1,077,190	1,346,301	123,659	1,469,959
2030	2032	271,503	1,761,107	2,032,610	127,463	2,160,073	271,503	1,057,633	1,329,136	127,463	1,456,599
2031	2033	274,817	1,829,947	2,104,764	131,187	2,235,951	274,817	1,034,253	1,309,070	131,187	1,440,257
2032	2034	278,068	1,900,171	2,178,239	135,499	2,313,738	278,068	1,006,686	1,284,754	135,499	1,420,253
2033	2035	283,069	1,970,069	2,253,158	139,891	2,393,049	283,069	972,170	1,255,259	139,891	1,395,150
2034	2036	288,752	2,042,289	2,331,041	144,489	2,475,531	288,752	932,611	1,221,363	144,489	1,365,853
2035	2037	295,023	2,114,814	2,409,837	149,317	2,559,154	295,023	883,743	1,178,766	149,317	1,328,083
2036	2038	302,392	2,186,268	2,488,660	154,347	2,643,007	302,392	820,378	1,122,770	154,347	1,277,117
2037	2039	310,304	2,254,464	2,564,768	159,648	2,724,417	310,304	732,348	1,042,652	159,648	1,232,301
2038	2040	319,020	2,310,994	2,630,014	165,203	2,795,217	319,020	589,107	908,127	165,203	1,073,330
2039	2041	328,520	2,319,290	2,647,810	171,048	2,818,858	328,520	251,900	580,420	171,048	751,468
2040	2042	339,022	0	339,022	177,209	516,231	339,022	0	339,022	177,209	516,231

All numbers are in thousands



**APPENDIX B**

**Attachment 1**

**Connecticut SERS  
30 Year Baseline Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009**

Valuation Year Ending 6/30/YYY	Fiscal Year Ending 6/30/YYY	Annual Payroll	Retiree Payments to the Valuation Year	(a) Unfunded Accrued Liability Beginning of Valuation Year	(b) Level Percent of Payroll Amortization Method	(c) Funded Ratio = Assets / Accrued Liability	(d) Amortization Period	(e) Unfunded Accrued Liability Beginning of Valuation Year	(f) Plan Assets at Beginning of Valuation Year	(g) Funded Ratio = Assets / Accrued Liability	(h) Amortization Period	
2008	2010	3,497,445	1,014,096	9,253,126	51.9%	51.9%	24	9,253,126	9,980,247	50.0%	24	
2009	2011	3,637,342	1,070,474	11,794,163	42.7%	42.7%	23	11,794,163	6,787,160	42.7%	23	
2010	2012	3,183,548	1,304,721	12,027,504	45.8%	45.8%	22	12,027,504	10,177,320	45.8%	22	
2011	2013	3,216,895	1,359,478	12,457,881	45.8%	45.8%	21	12,457,881	10,898,797	47.4%	21	
2012	2014	3,252,931	1,417,478	13,395,564	43.8%	43.8%	20	13,395,564	11,201,034	47.0%	20	
2013	2015	3,286,889	1,479,923	14,096,051	42.8%	42.8%	19	14,096,051	11,757,092	47.7%	19	
2014	2016	3,317,006	1,547,841	14,246,519	44.2%	44.2%	18	14,246,519	12,883,716	50.5%	18	
2015	2017	3,337,815	1,622,443	14,451,004	45.2%	45.2%	17	14,451,004	13,955,085	53.0%	17	
2016	2018	3,355,923	1,701,354	14,623,938	46.2%	46.2%	16	14,623,938	15,032,436	55.3%	16	
2017	2019	3,378,632	1,779,770	14,749,388	47.3%	47.3%	15	14,749,388	16,125,581	57.6%	15	
2018	2020	3,396,579	1,862,420	14,818,478	48.6%	48.6%	14	14,818,478	17,233,855	59.8%	14	
2019	2021	3,421,570	1,944,621	14,816,378	49.9%	49.9%	13	14,816,378	18,359,205	62.1%	13	
2020	2022	3,439,823	2,036,373	14,726,048	51.4%	51.4%	12	14,726,048	19,494,109	64.3%	12	
2021	2023	3,460,315	2,126,613	14,544,434	53.1%	53.1%	11	14,544,434	20,636,736	66.5%	11	
2022	2024	3,487,572	2,215,823	14,262,031	55.0%	55.0%	10	14,262,031	21,790,191	68.8%	10	
2023	2025	3,519,754	2,303,799	13,863,207	57.1%	57.1%	9	13,863,207	22,958,247	71.1%	9	
2024	2026	3,561,026	2,389,686	13,333,873	59.4%	59.4%	8	13,333,873	24,146,810	73.5%	8	
2025	2027	3,604,586	2,474,736	12,643,804	62.1%	62.1%	7	12,643,804	25,359,982	76.0%	7	
2026	2028	3,651,491	2,560,164	11,773,350	65.2%	65.2%	6	11,773,350	26,601,126	78.6%	6	
2027	2029	3,704,617	2,641,245	10,698,224	68.8%	68.8%	5	10,698,224	27,877,971	81.4%	5	
2028	2030	3,763,216	2,719,256	9,384,610	72.9%	72.9%	4	9,384,610	29,198,367	84.4%	4	
2029	2031	3,837,498	2,786,095	7,808,550	77.6%	77.6%	3	7,808,550	30,580,273	87.6%	3	
2030	2032	3,920,591	2,850,389	5,911,938	83.2%	83.2%	2	5,911,938	32,044,124	91.1%	2	
2031	2033	4,014,693	2,907,051	3,626,633	89.8%	89.8%	1	3,626,633	33,618,366	94.9%	1	
2032	2034	4,117,089	2,959,612	0	100.0%	100.0%	0	0	35,346,742	100.0%	0	
2033	2035	4,227,474	3,005,218	0	100.0%	100.0%	0	0	37,359,354	100.0%	0	
2034	2036	4,348,830	3,043,889	0	100.0%	100.0%	0	0	38,111,251	100.0%	0	
2035	2037	4,480,604	3,076,731	0	100.0%	100.0%	0	0	38,932,164	100.0%	0	
2036	2038	4,621,869	3,103,220	0	100.0%	100.0%	0	0	39,368,962	100.0%	0	
2037	2039	4,773,502	3,123,427	0	100.0%	100.0%	0	0	39,687,623	100.0%	0	
2038	2040	4,934,070	3,140,268	0	100.0%	100.0%	0	0	40,438,141	100.0%	0	
2039	2041	5,104,120	3,152,182	0	100.0%	100.0%	0	0				
2040	2042	5,284,124	3,159,009	0	100.0%	100.0%	0	0				

All numbers are in thousands

8/2/2010



**APPENDIX B**

**Attachment 2**

**Connecticut SERS**

**30 Year Baseline Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009**

Valuation Year Ending 6/30/YYY	Fiscal Year Ending 6/30/YYY	Level Percent of Payroll Amortization Method			Level Dollar Amortization Method			Total Contribution = (9) + (10)			
		(1) Normal Cost	(2) Amortization of Unfunded Accrued Liability	(3) Total State Contribution = (7) + (8)	(4) Employee Contribution	(5) Total State Contribution = (7) + (8)	(6) Amortization of Unfunded Accrued Liability		(7) Total State Contribution = (5) + (6)	(8) Employee Contribution	(9) Total Contribution = (7) + (8)
2008	2010	335,323	562,105	897,428	61,876	959,304	335,323	562,105	897,428	61,876	959,304
2009	2011	340,927	699,250	1,040,177	63,816	1,103,993	340,927	1,069,000	1,399,927	63,816	1,463,743
2010	2012	296,280	733,711	1,029,991	65,889	1,095,880	296,280	1,097,008	1,393,288	65,889	1,459,177
2011	2013	302,249	785,393	1,087,642	68,036	1,155,678	302,249	1,119,894	1,422,133	68,036	1,490,169
2012	2014	306,833	879,153	1,185,986	70,149	1,256,135	306,833	1,194,508	1,501,341	70,149	1,571,490
2013	2015	309,505	962,511	1,272,116	72,094	1,344,210	309,505	1,248,877	1,558,482	72,094	1,630,576
2014	2016	309,174	1,009,917	1,319,091	74,049	1,393,141	309,174	1,247,059	1,556,233	74,049	1,630,283
2015	2017	308,746	1,067,508	1,376,254	76,254	1,452,508	308,746	1,253,454	1,562,200	76,254	1,638,454
2016	2018	308,831	1,129,589	1,438,420	78,523	1,516,943	308,831	1,261,611	1,570,442	78,523	1,648,965
2017	2019	308,197	1,195,815	1,504,012	80,925	1,584,937	308,197	1,270,575	1,578,772	80,925	1,659,697
2018	2020	307,027	1,266,524	1,573,551	83,054	1,656,605	307,027	1,280,318	1,587,345	83,054	1,670,399
2019	2021	303,507	1,341,619	1,645,126	85,339	1,730,465	303,507	1,290,226	1,593,733	85,339	1,679,072
2020	2022	300,755	1,420,848	1,721,604	87,876	1,809,481	300,755	1,299,454	1,600,209	87,876	1,688,085
2021	2023	288,915	1,505,614	1,804,529	90,553	1,895,081	288,915	1,309,165	1,608,080	90,553	1,698,632
2022	2024	288,099	1,597,090	1,895,189	93,429	1,988,618	288,099	1,320,081	1,618,180	93,429	1,711,609
2023	2025	297,404	1,696,237	1,993,641	96,266	2,089,906	297,404	1,332,397	1,629,801	96,266	1,726,066
2024	2026	1,804,852	1,804,852	2,100,975	99,082	2,200,058	296,123	1,346,977	1,643,100	99,082	1,742,183
2025	2027	294,526	1,923,363	2,217,889	102,052	2,319,941	294,526	1,362,584	1,657,110	102,052	1,759,162
2026	2028	292,733	2,054,681	2,347,414	104,923	2,452,336	292,733	1,380,130	1,672,863	104,923	1,777,785
2027	2029	291,624	2,203,498	2,495,122	108,274	2,603,396	291,624	1,401,147	1,692,771	108,274	1,801,045
2028	2030	293,768	2,376,984	2,670,732	111,757	2,782,488	293,768	1,426,997	1,720,765	111,757	1,832,521
2029	2031	296,560	2,596,198	2,892,758	115,408	3,008,166	296,560	1,467,242	1,763,802	115,408	1,879,210
2030	2032	300,408	2,907,260	3,207,668	119,225	3,326,893	300,408	1,535,456	1,835,864	119,225	1,955,089
2031	2033	305,400	3,534,479	3,839,879	123,219	3,963,098	305,400	1,708,216	2,013,616	123,219	2,136,835
2032	2034	311,307	0	311,307	127,420	438,728	311,307	0	311,307	127,420	438,728
2033	2035	318,524	0	318,524	131,835	450,359	318,524	0	318,524	131,835	450,359
2034	2036	326,738	0	326,738	136,451	463,189	326,738	0	326,738	136,451	463,189
2035	2037	335,707	0	335,707	141,288	476,995	335,707	0	335,707	141,288	476,995
2036	2038	345,820	0	345,820	146,329	492,148	345,820	0	345,820	146,329	492,148
2037	2039	356,545	0	356,545	151,613	508,159	356,545	0	356,545	151,613	508,159
2038	2040	368,137	0	368,137	157,150	525,287	368,137	0	368,137	157,150	525,287
2039	2041	380,560	0	380,560	162,941	543,501	380,560	0	380,560	162,941	543,501
2040	2042	393,889	0	393,889	169,014	562,903	393,889	0	393,889	169,014	562,903

All numbers are in thousands

8/2/2010



**APPENDIX B**

**Attachment 3**

**Connecticut SERS**  
**30 Year Projection based on June 30, 2008 Valuation**  
**Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter**  
**Recognizes the Early Retirement Incentive of 2009**  
**Modified Retirement Eligibility for Tier II - Non-Hazardous**

Valuation Year Ending 6/30/YYY	Fiscal Year Ending 6/30/YYY	Annual Payroll	Retiree Payments for the Month/Year	(4) Level Percent of Payroll Amortization Method			(5) Funded Ratio - Assets / Accrued Liability			(6) Amortization Period			(7) Level Dollar Amortization Method			Amortization Period
				Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Funded Ratio - Assets / Accrued Liability	Amortization Period	Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Funded Ratio - Assets / Accrued Liability	Amortization Period	Unfunded Accrued Liability Beginning of Valuation Year	Plan Assets at Beginning of Valuation Year	Funded Ratio - Assets / Accrued Liability		
2008	2010	3,497,445	1,014,096	9,253,126	9,990,247	51.9%	24	9,253,126	9,990,247	50.0%	24	9,253,126	9,990,247	50.0%	24	
2009	2011	3,637,342	1,070,474	11,794,163	8,787,160	42.7%	23	11,794,163	8,787,160	42.7%	23	11,794,163	8,787,160	42.7%	23	
2010	2012	3,220,225	1,290,393	11,514,374	10,177,320	46.9%	22	11,514,374	10,177,320	46.9%	22	11,514,374	10,177,320	46.9%	22	
2011	2013	3,273,940	1,336,438	11,691,645	10,557,425	47.5%	21	11,691,645	10,557,425	47.5%	21	11,691,645	10,557,425	47.5%	21	
2012	2014	3,326,819	1,386,377	12,605,908	10,424,381	45.3%	20	12,605,908	10,424,381	45.3%	20	12,605,908	10,424,381	45.3%	20	
2013	2015	3,379,197	1,440,090	13,300,925	10,530,638	44.2%	19	13,300,925	10,530,638	44.2%	19	13,300,925	10,530,638	44.2%	19	
2014	2016	3,429,521	1,498,162	13,449,406	11,199,315	45.4%	18	13,449,406	11,199,315	45.4%	18	13,449,406	11,199,315	45.4%	18	
2015	2017	3,468,678	1,563,167	13,651,786	11,818,191	46.4%	17	13,651,786	11,818,191	46.4%	17	13,651,786	11,818,191	46.4%	17	
2016	2018	3,500,845	1,633,991	13,824,937	12,465,894	47.4%	16	13,824,937	12,465,894	47.4%	16	13,824,937	12,465,894	47.4%	16	
2017	2019	3,539,434	1,703,235	13,952,924	13,156,728	48.5%	15	13,952,924	13,156,728	48.5%	15	13,952,924	13,156,728	48.5%	15	
2018	2020	3,569,670	1,778,038	14,026,208	13,893,564	49.8%	14	14,026,208	13,893,564	49.8%	14	14,026,208	13,893,564	49.8%	14	
2019	2021	3,608,117	1,851,173	14,035,725	14,685,531	51.1%	13	14,035,725	14,685,531	51.1%	13	14,035,725	14,685,531	51.1%	13	
2020	2022	3,642,390	1,932,351	13,959,860	15,532,663	52.7%	12	13,959,860	15,532,663	52.7%	12	13,959,860	15,532,663	52.7%	12	
2021	2023	3,674,579	2,015,344	13,797,887	16,440,521	54.4%	11	13,797,887	16,440,521	54.4%	11	13,797,887	16,440,521	54.4%	11	
2022	2024	3,709,794	2,098,233	13,540,715	17,419,888	56.3%	10	13,540,715	17,419,888	56.3%	10	13,540,715	17,419,888	56.3%	10	
2023	2025	3,747,158	2,181,912	13,173,408	18,482,413	58.4%	9	13,173,408	18,482,413	58.4%	9	13,173,408	18,482,413	58.4%	9	
2024	2026	3,789,814	2,264,481	12,680,650	19,843,972	60.8%	8	12,680,650	19,843,972	60.8%	8	12,680,650	19,843,972	60.8%	8	
2025	2027	3,825,765	2,352,694	12,035,293	20,814,466	63.5%	7	12,035,293	20,814,466	63.5%	7	12,035,293	20,814,466	63.5%	7	
2026	2028	3,863,460	2,441,294	11,214,821	22,309,917	66.6%	6	11,214,821	22,309,917	66.6%	6	11,214,821	22,309,917	66.6%	6	
2027	2029	3,897,782	2,533,924	10,200,306	23,845,232	70.0%	5	10,200,306	23,845,232	70.0%	5	10,200,306	23,845,232	70.0%	5	
2028	2030	3,933,301	2,627,169	8,957,120	25,542,207	74.0%	4	8,957,120	25,542,207	74.0%	4	8,957,120	25,542,207	74.0%	4	
2029	2031	3,984,584	2,713,964	7,463,751	27,438,694	78.6%	3	7,463,751	27,438,694	78.6%	3	7,463,751	27,438,694	78.6%	3	
2030	2032	4,042,531	2,796,785	5,664,380	29,583,114	83.9%	2	5,664,380	29,583,114	83.9%	2	5,664,380	29,583,114	83.9%	2	
2031	2033	4,114,265	2,871,571	3,488,550	32,051,866	90.2%	1	3,488,550	32,051,866	90.2%	1	3,488,550	32,051,866	90.2%	1	
2032	2034	4,195,157	2,941,879	0	34,972,249	100.0%	0	0	34,972,249	100.0%	0	0	34,972,249	100.0%	0	
2033	2035	4,283,658	3,005,136	0	38,714,892	100.0%	0	0	38,714,892	100.0%	0	0	38,714,892	100.0%	0	
2034	2036	4,386,342	3,060,205	0	39,187,230	100.0%	0	0	39,187,230	100.0%	0	0	39,187,230	100.0%	0	
2035	2037	4,503,148	3,107,567	0	39,657,957	100.0%	0	0	39,657,957	100.0%	0	0	39,657,957	100.0%	0	
2036	2038	4,632,741	3,145,072	0	40,138,989	100.0%	0	0	40,138,989	100.0%	0	0	40,138,989	100.0%	0	
2037	2039	4,776,007	3,173,040	0	40,642,666	100.0%	0	0	40,642,666	100.0%	0	0	40,642,666	100.0%	0	
2038	2040	4,930,834	3,194,481	0	41,179,686	100.0%	0	0	41,179,686	100.0%	0	0	41,179,686	100.0%	0	
2039	2041	5,096,874	3,206,687	0	41,761,829	100.0%	0	0	41,761,829	100.0%	0	0	41,761,829	100.0%	0	
2040	2042	5,274,529	3,215,464	0	42,402,184	100.0%	0	0	42,402,184	100.0%	0	0	42,402,184	100.0%	0	

All numbers are in thousands



**APPENDIX B**

**Attachment 4**

**Connecticut SERS**

**30 Year Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009  
Modified Retirement Eligibility for Tier II - Non Hazardous**

Valuation Year Ending 6/30/YYY	Level Percent of Payroll Amortization Method			Level Dollar Amortization Method						
	(1)	(2)	(3)	(4)	(5)	(6)				
Fiscal Year Ending 6/30/YYY	Normal Cost	Amortization of Unfunded Actuarial Liability	Total State Contribution - (C) + (6)	Employee Contribution	Total Contribution - (4) + (10)	Normal Cost	Amortization of Unfunded Actuarial Liability	Total State Contribution - (7) + (8)	Employee Contribution	Total Contribution - (9) + (10)
2008	335,323	562,105	897,428	61,475	958,903	335,323	562,105	897,428	61,475	958,903
2009	340,927	699,250	1,040,177	63,145	1,103,322	340,927	1,059,000	1,399,927	63,145	1,463,072
2010	276,707	697,908	974,615	64,950	1,039,564	276,707	1,045,706	1,322,413	64,950	1,387,362
2011	285,291	730,341	1,015,632	66,802	1,082,433	285,291	1,041,917	1,327,208	66,802	1,394,009
2012	292,454	820,602	1,113,056	68,588	1,181,644	292,454	1,114,251	1,406,705	68,588	1,475,293
2013	298,226	901,525	1,199,751	70,204	1,269,955	298,226	1,168,966	1,467,192	70,204	1,537,396
2014	301,059	946,506	1,247,565	71,848	1,319,413	301,059	1,167,829	1,468,888	71,848	1,540,736
2015	303,664	1,001,372	1,305,036	73,716	1,378,752	303,664	1,174,583	1,478,347	73,716	1,552,063
2016	306,736	1,060,581	1,367,317	75,673	1,442,990	306,736	1,183,281	1,490,017	75,673	1,565,690
2017	309,210	1,123,746	1,432,966	77,732	1,510,698	309,210	1,192,634	1,501,844	77,732	1,579,576
2018	311,307	1,191,282	1,502,589	79,500	1,582,089	311,307	1,202,827	1,514,134	79,500	1,593,634
2019	311,809	1,263,021	1,574,830	81,444	1,656,274	311,809	1,213,176	1,524,985	81,444	1,606,429
2020	313,445	1,338,800	1,652,245	83,663	1,735,908	313,445	1,222,962	1,536,407	83,663	1,620,070
2021	315,812	1,419,998	1,735,810	86,043	1,821,854	315,812	1,233,346	1,549,158	86,043	1,635,202
2022	318,918	1,507,775	1,826,693	88,664	1,915,357	318,918	1,245,049	1,563,967	88,664	1,652,631
2023	321,731	1,603,097	1,924,828	91,339	2,016,167	321,731	1,258,303	1,580,034	91,339	1,671,373
2024	322,586	1,707,513	2,030,099	94,027	2,124,126	322,586	1,273,714	1,596,300	94,027	1,690,327
2025	321,885	1,821,655	2,143,540	96,994	2,240,533	321,885	1,290,349	1,612,254	96,994	1,709,227
2026	319,649	1,947,835	2,267,484	99,930	2,367,414	319,649	1,308,528	1,628,177	99,930	1,728,107
2027	316,631	2,091,380	2,408,011	103,397	2,511,409	316,631	1,330,660	1,647,291	103,397	1,750,689
2028	316,108	2,258,955	2,575,063	107,085	2,682,147	316,108	1,357,830	1,673,938	107,085	1,781,022
2029	315,917	2,471,746	2,787,663	110,958	2,898,622	315,917	1,400,210	1,716,127	110,958	1,827,086
2030	316,369	2,775,843	3,092,212	115,041	3,207,253	316,369	1,472,835	1,789,204	115,041	1,904,245
2031	318,117	3,391,794	3,709,911	119,336	3,829,248	318,117	1,654,835	1,972,952	119,336	2,092,289
2032	320,487	0	320,487	123,844	444,331	320,487	0	320,487	123,844	444,331
2033	324,128	0	324,128	128,562	452,691	324,128	0	324,128	128,562	452,691
2034	329,305	0	329,305	133,470	462,775	329,305	0	329,305	133,470	462,775
2035	335,788	0	335,788	138,576	474,364	335,788	0	335,788	138,576	474,364
2036	344,044	0	344,044	143,871	487,915	344,044	0	344,044	143,871	487,915
2037	353,515	0	353,515	149,392	502,908	353,515	0	353,515	149,392	502,908
2038	364,320	0	364,320	155,153	519,474	364,320	0	364,320	155,153	519,474
2039	376,374	0	376,374	161,157	537,532	376,374	0	376,374	161,157	537,532
2040	389,689	0	389,689	167,431	557,120	389,689	0	389,689	167,431	557,120

All numbers are in thousands





**APPENDIX B**

**Attachment 5**

**Connecticut SERS  
30 Year Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009  
Modified Retirement Eligibility for Tier IIA - Non Hazardous**

Valuation Year Ending 6/30/YYY	Fiscal Year Ending 9/30/YYY	(2) Annual Payroll	(3) Retiree Payments for the Valuation Year	(4) Unfunded Accrued Liability Beginning of Valuation Year	(5) Level Percent of Payroll Amortization Method	(6) Funded Ratio - Assets / Accrued Liability	(7) Administration Period	(8) Unfunded Accrued Liability Beginning of Valuation Year	(9) Plan Assets at Beginning of Valuation Year	(10) Funded Ratio - Assets / Accrued Liability	(11) Amortization Period
2008	2010	3,497,445	1,014,096	9,253,126	51.9%	51.9%	24	9,253,126	9,990,247	50.0%	24
2009	2011	3,637,342	1,070,474	11,794,163	42.7%	42.7%	23	11,794,163	8,787,160	42.7%	23
2010	2012	3,188,564	1,303,345	11,937,164	46.0%	46.0%	22	11,937,164	10,177,320	46.0%	22
2011	2013	3,227,599	1,356,659	12,251,740	46.2%	46.2%	21	11,877,445	10,902,909	47.9%	21
2012	2014	3,270,357	1,412,842	13,179,116	44.1%	44.1%	20	12,386,795	11,184,958	47.4%	20
2013	2015	3,312,527	1,473,259	13,878,145	43.1%	43.1%	19	12,691,844	11,708,248	48.0%	19
2014	2016	3,351,187	1,538,302	14,028,694	44.4%	44.4%	18	12,422,779	12,800,439	50.8%	18
2015	2017	3,382,324	1,610,657	14,235,448	45.3%	45.3%	17	12,204,698	13,837,672	53.1%	17
2016	2018	3,412,554	1,686,402	14,413,246	46.3%	46.3%	16	11,972,926	14,881,592	55.4%	16
2017	2019	3,448,545	1,761,291	14,545,966	47.4%	47.4%	15	11,714,590	15,942,941	57.6%	15
2018	2020	3,481,117	1,840,064	14,625,355	48.6%	48.6%	14	11,425,616	17,022,024	59.8%	14
2019	2021	3,516,187	1,919,167	14,631,533	49.9%	49.9%	13	11,091,499	18,120,551	62.0%	13
2020	2022	3,542,667	2,007,519	14,548,315	51.4%	51.4%	12	10,702,074	19,230,482	64.3%	12
2021	2023	3,569,008	2,096,531	14,372,837	53.1%	53.1%	11	10,261,784	20,349,151	66.5%	11
2022	2024	3,600,122	2,184,263	14,095,942	54.9%	54.9%	10	9,769,942	21,478,323	68.7%	10
2023	2025	3,636,191	2,270,399	13,704,197	57.0%	57.0%	9	9,222,518	22,621,600	71.0%	9
2024	2026	3,680,051	2,354,676	13,182,404	62.0%	59.3%	8	8,614,949	23,784,202	73.4%	8
2025	2027	3,723,950	2,438,760	12,499,754	66.6%	66.6%	7	7,928,668	24,969,343	75.9%	7
2026	2028	3,773,364	2,521,991	11,641,618	72.8%	68.1%	6	7,163,239	26,181,117	78.5%	6
2027	2029	3,828,312	2,600,931	10,581,760	77.5%	72.8%	5	6,309,611	27,426,685	81.3%	5
2028	2030	3,887,537	2,676,940	9,283,902	83.1%	77.5%	4	5,351,966	28,714,363	84.3%	4
2029	2031	4,046,349	2,803,302	7,727,158	89.7%	83.1%	3	4,294,884	30,062,676	87.5%	3
2030	2032	4,147,074	2,855,881	5,853,866	100.0%	89.7%	2	3,114,324	31,491,220	91.0%	2
2031	2033	4,254,077	2,903,408	3,598,302	100.0%	100.0%	1	1,782,791	33,030,700	94.9%	1
2032	2034	4,366,685	2,944,959	0	100.0%	100.0%	0	0	34,726,983	100.0%	0
2033	2035	4,488,768	2,980,700	0	100.0%	100.0%	0	0	36,714,812	100.0%	0
2034	2036	4,620,970	3,035,811	0	100.0%	100.0%	0	0	37,070,199	100.0%	0
2035	2037	4,759,677	3,055,264	0	100.0%	100.0%	0	0	37,434,973	100.0%	0
2036	2038	4,907,405	3,071,347	0	100.0%	100.0%	0	0	38,222,166	100.0%	0
2037	2039	5,063,463	3,083,259	0	100.0%	100.0%	0	0	38,658,398	100.0%	0
2038	2040	5,227,474	3,092,206	0	100.0%	100.0%	0	0	39,132,616	100.0%	0
2039	2041	5,399,438		0			0	0	39,652,112	100.0%	0
2040	2042			0			0	0			0

All numbers are in thousands



**APPENDIX B**

**Attachment 6**

**Connecticut SERS**

**30 Year Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009  
Modified Retirement Eligibility for Tier IIIA - Non Hazardous**

Valuation Year Ending 6/30/YY	Fiscal Year Ending 6/30/YY	Level Percent of Payroll Amortization Method			Level Dollar Amortization Method			Total Contribution = (9) + (10)	Employee Contribution	Total Contribution = (7) + (8)	Amortization of Unfunded Accrued Liability	Normal Cost	Total State Contribution = (5) + (6)	Employee Contribution	Total Contribution = (9) + (10)
		Normal Cost	Amortization of Unfunded Accrued Liability	Total State Contribution = (5) + (6)	Normal Cost	Amortization of Unfunded Accrued Liability	Total State Contribution = (7) + (8)								
2008	2010	335,323	562,105	897,428	61,952	897,428	959,380	61,952	897,428	1,059,000	335,323	959,380	61,952	959,380	
2009	2011	340,927	699,250	1,040,177	63,982	1,040,177	1,104,159	63,982	1,399,927	1,059,000	340,927	1,399,927	63,982	1,463,909	
2010	2012	280,859	727,408	1,008,267	66,171	1,008,267	1,074,437	66,171	1,368,835	1,087,976	280,859	1,368,835	66,171	1,435,005	
2011	2013	286,331	770,583	1,056,914	68,439	1,056,914	1,125,352	68,439	1,385,241	1,098,910	286,331	1,385,241	68,439	1,453,679	
2012	2014	290,601	863,104	1,153,705	70,673	1,153,705	1,224,378	70,673	1,462,946	1,172,345	290,601	1,462,946	70,673	1,533,619	
2013	2015	293,029	945,797	1,238,826	72,772	1,238,826	1,311,598	72,772	1,519,812	1,226,783	293,029	1,519,812	72,772	1,592,584	
2014	2016	292,388	992,589	1,284,977	74,905	1,284,977	1,359,882	74,905	1,517,605	1,225,217	292,388	1,517,605	74,905	1,592,510	
2015	2017	292,017	1,049,671	1,341,688	77,301	1,341,688	1,418,989	77,301	1,524,074	1,232,057	292,017	1,524,074	77,301	1,601,375	
2016	2018	292,360	1,111,392	1,403,752	79,777	1,403,752	1,483,529	79,777	1,533,257	1,240,897	292,360	1,533,257	79,777	1,613,034	
2017	2019	292,197	1,177,411	1,469,608	82,291	1,469,608	1,541,899	82,291	1,542,969	1,250,772	292,197	1,542,969	82,291	1,625,260	
2018	2020	291,250	1,248,136	1,539,386	84,488	1,539,386	1,623,874	84,488	1,552,979	1,261,729	291,250	1,552,979	84,488	1,637,467	
2019	2021	287,532	1,323,008	1,610,540	86,790	1,610,540	1,697,330	86,790	1,560,077	1,272,545	287,532	1,560,077	86,790	1,646,857	
2020	2022	284,263	1,401,816	1,686,079	89,297	1,686,079	1,775,376	89,297	1,566,692	1,282,429	284,263	1,566,692	89,297	1,655,989	
2021	2023	281,672	1,485,935	1,767,607	91,936	1,767,607	1,859,543	91,936	1,574,210	1,292,538	281,672	1,574,210	91,936	1,666,146	
2022	2024	280,002	1,576,525	1,856,527	94,742	1,856,527	1,951,269	94,742	1,583,600	1,303,598	280,002	1,583,600	94,742	1,678,342	
2023	2025	278,350	1,674,767	1,953,117	97,457	1,953,117	2,050,574	97,457	1,594,445	1,316,095	278,350	1,594,445	97,457	1,691,902	
2024	2026	275,848	1,782,304	2,058,152	100,179	2,058,152	2,158,331	100,179	1,606,577	1,330,729	275,848	1,606,577	100,179	1,706,756	
2025	2027	273,101	1,899,286	2,172,387	103,027	2,172,387	2,275,414	103,027	1,619,064	1,345,963	273,101	1,619,064	103,027	1,722,091	
2026	2028	270,331	2,029,481	2,299,812	105,743	2,299,812	2,405,555	105,743	1,634,064	1,363,733	270,331	1,634,064	105,743	1,739,807	
2027	2029	268,092	2,177,273	2,445,365	108,947	2,445,365	2,554,312	108,947	1,653,342	1,385,250	268,092	1,653,342	108,947	1,762,289	
2028	2030	269,065	2,349,164	2,618,229	112,284	2,618,229	2,730,513	112,284	1,680,259	1,411,194	269,065	1,680,259	112,284	1,792,543	
2029	2031	270,784	2,566,820	2,837,604	115,830	2,837,604	2,953,434	115,830	1,722,642	1,451,858	270,784	1,722,642	115,830	1,838,472	
2030	2032	273,808	2,876,433	3,150,241	119,537	3,150,241	3,269,778	119,537	1,795,100	1,521,292	273,808	1,795,100	119,537	1,914,637	
2031	2033	278,195	3,504,990	3,783,185	123,365	3,783,185	3,906,550	123,365	1,978,594	1,700,339	278,195	1,978,594	123,365	2,101,959	
2032	2034	283,643	0	283,643	127,371	283,643	411,014	127,371	283,643	0	283,643	283,643	127,371	411,014	
2033	2035	290,516	0	290,516	131,578	290,516	422,095	131,578	290,516	0	290,516	290,516	131,578	422,095	
2034	2036	298,188	0	298,188	135,930	298,188	434,118	135,930	298,188	0	298,188	298,188	135,930	434,118	
2035	2037	306,095	0	306,095	140,480	306,095	446,575	140,480	306,095	0	306,095	306,095	140,480	446,575	
2036	2038	314,623	0	314,623	145,217	314,623	459,840	145,217	314,623	0	314,623	314,623	145,217	459,840	
2037	2039	323,505	0	323,505	150,167	323,505	473,672	150,167	323,505	0	323,505	323,505	150,167	473,672	
2038	2040	333,203	0	333,203	155,332	333,203	488,535	155,332	333,203	0	333,203	333,203	155,332	488,535	
2039	2041	343,331	0	343,331	160,774	343,331	504,104	160,774	343,331	0	343,331	343,331	160,774	504,104	
2040	2042	354,072	0	354,072	166,487	354,072	520,560	166,487	354,072	0	354,072	354,072	166,487	520,560	

All numbers are in thousands



**APPENDIX B**

**Attachment 7**

**Connecticut SERS  
30 Year Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009  
Modified Retirement Eligibility for Tier II - Hazardous**

Valuation Year Ending 6/30/00YY	Fiscal Year Ending 6/30/00YY	Annual Payroll	Retiree Payments for the Valuation Year	(5) Unfunded Accrued Liability Beginning of Valuation Year	(6) Level Percent of Payroll Amortization Method	(7) Plan Assets at Beginning of Valuation Year	(8) Funded Ratio = Assets / Accrued Liability	(9) Amortization Period
2008	2010	3,497,445	1,014,096	9,253,126	51.9%	9,990,247	50.0%	24
2009	2011	3,637,342	1,070,474	11,794,163	42.7%	8,787,160	42.7%	23
2010	2012	3,194,936	1,296,204	11,726,512	46.5%	10,177,320	46.5%	22
2011	2013	3,238,639	1,343,147	11,996,125	46.8%	10,548,756	48.5%	21
2012	2014	3,284,240	1,393,203	12,916,955	44.7%	10,431,548	44.7%	20
2013	2015	3,328,914	1,447,129	13,612,133	43.7%	10,592,783	43.7%	19
2014	2016	3,372,259	1,504,796	13,759,407	45.0%	11,261,389	45.0%	18
2015	2017	3,409,143	1,566,754	13,960,601	46.1%	11,971,633	46.1%	17
2016	2018	3,439,643	1,635,946	14,132,764	47.2%	12,611,240	47.2%	16
2017	2019	3,470,271	1,707,642	14,259,044	48.4%	13,352,773	48.4%	15
2018	2020	3,497,267	1,783,154	14,331,491	49.7%	14,146,355	49.7%	14
2019	2021	3,523,476	1,864,351	14,336,129	51.1%	14,993,752	51.1%	13
2020	2022	3,535,784	1,960,173	14,255,798	52.7%	15,886,100	52.7%	12
2021	2023	3,545,854	2,060,631	14,087,378	54.4%	16,822,317	54.4%	11
2022	2024	3,565,884	2,157,043	13,821,627	56.3%	17,814,186	56.3%	10
2023	2025	3,587,111	2,255,612	13,443,225	60.7%	18,870,772	60.7%	9
2024	2026	3,620,615	2,349,890	12,938,149	63.4%	20,009,350	63.4%	8
2025	2027	3,656,512	2,443,615	12,276,877	66.4%	21,245,657	66.4%	7
2026	2028	3,696,721	2,537,095	11,439,892	69.8%	22,597,132	69.8%	6
2027	2029	3,743,096	2,626,460	10,403,726	73.8%	24,087,763	73.8%	5
2028	2030	3,795,919	2,712,069	9,134,794	78.4%	25,745,888	78.4%	4
2029	2031	3,863,676	2,789,235	7,609,871	83.6%	27,613,582	83.6%	3
2030	2032	3,940,654	2,859,351	5,771,500	90.1%	29,744,410	90.1%	2
2031	2033	4,029,075	2,923,766	3,552,333	100.0%	32,214,487	100.0%	1
2032	2034	4,126,909	2,982,966	0	100.0%	35,153,999	100.0%	0
2033	2035	4,232,922	3,034,883	0	100.0%	38,939,909	100.0%	0
2034	2036	4,350,935	3,078,546	0	100.0%	39,405,251	100.0%	0
2035	2037	4,479,903	3,115,700	0	100.0%	39,881,616	100.0%	0
2036	2038	4,616,906	3,145,389	0	100.0%	40,379,031	100.0%	0
2037	2039	4,768,623	3,167,863	0	100.0%	40,907,958	100.0%	0
2038	2040	4,927,586	3,186,167	0	100.0%	41,476,994	100.0%	0
2039	2041	5,096,358	3,198,752	0	100.0%	42,096,354	100.0%	0
2040	2042	5,275,204	3,205,537	0	100.0%	42,777,495	100.0%	0

All numbers are in thousands



APPENDIX B

Attachment 8

Connecticut SERS  
 30 Year Projection based on June 30, 2008 Valuation  
 Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
 Recognizes the Early Retirement Incentive of 2009  
 Modified Retirement Eligibility for Tier II - Hazardous

Valuation Year Ending \$/30/31/YY	Fiscal Year Ending \$/30/31/YY	(1) Level Percent of Payroll Amortization Method		(2) Level Dollar Amortization Method		(3) Total Contribution = (7) + (8)	(4) Employee Contribution	(5) Amortization of Unfunded Accrued Liability	(6) Total State Contribution = (7) - (6)	(9) Employee Contribution	(11) Total Contribution = (9) + (10)
		Normal Cost	Amortization of Unfunded Accrued Liability	Normal Cost	Amortization of Unfunded Accrued Liability						
2008	2010	335,323	562,105	897,428	62,381	959,809	62,381	562,105	897,428	62,381	959,809
2009	2011	340,927	699,250	1,040,177	64,788	1,104,965	64,788	1,059,000	1,399,927	64,788	1,464,715
2010	2012	281,283	712,710	993,993	67,325	1,061,318	67,325	1,066,915	1,348,198	67,325	1,415,523
2011	2013	289,710	752,218	1,041,928	69,953	1,111,881	69,953	1,072,900	1,362,610	69,953	1,432,563
2012	2014	297,240	843,666	1,140,906	72,660	1,213,567	72,660	1,145,832	1,443,072	72,660	1,515,733
2013	2015	303,794	925,395	1,229,189	75,347	1,304,536	75,347	1,200,187	1,503,981	75,347	1,579,328
2014	2016	308,551	971,167	1,279,718	77,884	1,357,602	77,884	1,198,559	1,507,110	77,884	1,584,994
2015	2017	312,967	1,026,927	1,339,894	80,470	1,420,363	80,470	1,205,003	1,517,970	80,470	1,598,439
2016	2018	316,766	1,087,167	1,403,933	83,169	1,487,102	83,169	1,213,319	1,530,085	83,169	1,613,254
2017	2019	320,006	1,151,446	1,471,452	85,645	1,557,096	85,645	1,222,432	1,542,438	85,645	1,628,082
2018	2020	321,251	1,220,158	1,541,409	87,521	1,628,930	87,521	1,232,393	1,553,644	87,521	1,641,165
2019	2021	318,186	1,293,267	1,611,453	89,342	1,700,795	89,342	1,242,675	1,560,861	89,342	1,650,203
2020	2022	314,415	1,370,491	1,684,906	91,553	1,776,459	91,553	1,252,398	1,566,813	91,553	1,658,366
2021	2023	311,653	1,453,198	1,764,851	93,730	1,858,581	93,730	1,262,691	1,574,344	93,730	1,668,074
2022	2024	309,079	1,542,558	1,851,637	96,247	1,947,883	96,247	1,274,278	1,583,357	96,247	1,679,603
2023	2025	307,015	1,639,529	1,946,544	98,724	2,045,267	98,724	1,287,365	1,594,380	98,724	1,693,103
2024	2026	304,270	1,745,896	2,050,166	101,221	2,151,387	101,221	1,302,822	1,607,082	101,221	1,708,313
2025	2027	301,443	1,862,034	2,163,483	103,864	2,267,348	103,864	1,319,383	1,620,832	103,864	1,724,697
2026	2028	298,384	1,990,910	2,289,294	106,449	2,395,743	106,449	1,338,071	1,636,455	106,449	1,742,904
2027	2029	296,193	2,137,184	2,433,377	109,478	2,542,855	109,478	1,360,461	1,656,654	109,478	1,766,132
2028	2030	297,125	2,308,002	2,605,127	112,656	2,717,783	112,656	1,388,042	1,685,167	112,656	1,797,823
2029	2031	298,758	2,524,523	2,823,281	116,020	2,939,301	116,020	1,430,714	1,729,472	116,020	1,845,492
2030	2032	301,519	2,832,708	3,134,227	119,604	3,253,831	119,604	1,502,741	1,804,260	119,604	1,923,864
2031	2033	305,649	3,457,143	3,762,792	123,375	3,886,168	123,375	1,684,637	1,990,286	123,375	2,113,662
2032	2034	310,701	0	310,701	127,404	438,105	127,404	0	310,701	127,404	438,105
2033	2035	317,280	0	317,280	131,676	448,955	131,676	0	317,280	131,676	448,955
2034	2036	324,923	0	324,923	136,180	461,103	136,180	0	324,923	136,180	461,103
2035	2037	333,496	0	333,496	140,927	474,423	140,927	0	333,496	140,927	474,423
2036	2038	343,460	0	343,460	145,897	489,357	145,897	0	343,460	145,897	489,357
2037	2039	354,037	0	354,037	151,130	505,168	151,130	0	354,037	151,130	505,168
2038	2040	365,600	0	365,600	156,622	522,222	156,622	0	365,600	156,622	522,222
2039	2041	377,995	0	377,995	162,369	540,365	162,369	0	377,995	162,369	540,365
2040	2042	391,504	0	391,504	168,398	559,903	168,398	0	391,504	168,398	559,903

All numbers are in thousands



**APPENDIX B**

**Attachment 9**

**Connecticut SERS**

**30 Year Projection based on June 30, 2008 Valuation  
Assuming Market Value of \$8.481 Billion as of June 30, 2010 and 8.25% Investment Return for Each Year Thereafter  
Recognizes the Early Retirement Incentive of 2009  
Modified Retirement Eligibility for Tier IIA - Hazardous**

Valuation Year Ending 6/30/YYY	Fiscal Year Ending 6/30/YYY	Annual Payroll	Retiree Payments for the Valuation Year	(6) Unfunded Accrued Liability Beginning of Valuation Year	(7) Level Percent of Payroll Amortization Method	(8) Funded Ratio - Assets / Accrued Liability	(9) Amortization Period	(10) Unfunded Accrued Liability Beginning of Valuation Year	(11) Plan Assets at Beginning of Valuation Year	(12) Level Dollar Amortization Method	(13) Funded Ratio - Assets / Accrued Liability	(14) Amortization Period
2008	2010	3,497,445	1,014,096	9,253,126	51.9%	51.9%	24	9,253,126	9,990,247	9,990,247	50.0%	24
2009	2011	3,637,342	1,070,474	11,794,163	42.7%	42.7%	23	11,794,163	8,787,160	8,787,160	42.7%	23
2010	2012	3,183,279	1,304,684	11,943,823	46.0%	46.0%	22	11,943,823	10,177,320	10,177,320	46.0%	22
2011	2013	3,216,458	1,359,423	12,271,970	46.2%	46.2%	21	12,271,970	10,524,553	10,524,553	47.8%	21
2012	2014	3,251,734	1,417,365	13,194,102	44.1%	44.1%	20	13,194,102	10,395,209	10,395,209	47.4%	20
2013	2015	3,285,833	1,479,788	13,884,930	43.1%	43.1%	19	13,884,930	10,504,263	10,504,263	47.9%	19
2014	2016	3,316,075	1,547,652	14,025,831	44.3%	44.3%	18	14,025,831	11,163,185	11,163,185	50.7%	18
2015	2017	3,336,867	1,622,063	14,220,770	45.3%	45.3%	17	14,220,770	11,754,972	11,754,972	53.1%	17
2016	2018	3,355,059	1,700,681	14,384,094	46.2%	46.2%	16	14,384,094	12,360,747	12,360,747	55.4%	16
2017	2019	3,376,101	1,778,570	14,500,211	47.3%	47.3%	15	14,500,211	12,992,947	12,992,947	57.6%	15
2018	2020	3,396,527	1,860,564	14,560,376	48.4%	48.4%	14	14,560,376	13,654,398	13,654,398	59.7%	14
2019	2021	3,426,399	1,938,951	14,557,017	49.7%	49.7%	13	14,557,017	14,355,011	14,355,011	61.9%	13
2020	2022	3,457,606	2,019,297	14,481,466	51.1%	51.1%	12	14,481,466	15,101,155	15,101,155	64.0%	12
2021	2023	3,493,034	2,098,781	14,320,797	52.6%	52.6%	11	14,320,797	15,902,935	15,902,935	66.2%	11
2022	2024	3,533,976	2,178,265	14,060,904	54.4%	54.4%	10	14,060,904	16,774,162	16,774,162	68.4%	10
2023	2025	3,581,445	2,250,908	13,688,635	56.4%	56.4%	9	13,688,635	17,731,221	17,731,221	70.7%	9
2024	2026	3,634,232	2,328,184	13,181,260	58.8%	58.8%	8	13,181,260	18,789,167	18,789,167	73.0%	8
2025	2027	3,684,644	2,406,337	12,508,145	61.5%	61.5%	7	12,508,145	19,960,122	19,960,122	75.5%	7
2026	2028	3,740,192	2,482,856	11,653,844	64.6%	64.6%	6	11,653,844	21,263,072	21,263,072	78.2%	6
2027	2029	3,805,026	2,553,926	10,602,585	68.2%	68.2%	5	10,602,585	22,725,434	22,725,434	81.0%	5
2028	2030	3,877,347	2,620,570	9,317,377	72.4%	72.4%	4	9,317,377	24,378,326	24,378,326	84.0%	4
2029	2031	3,958,989	2,680,760	7,764,828	82.9%	82.9%	3	7,764,828	26,267,523	26,267,523	90.8%	3
2030	2032	4,043,831	2,738,617	5,881,627	89.6%	89.6%	2	5,881,627	28,441,635	28,441,635	94.8%	2
2031	2033	4,134,539	2,794,337	3,600,677	100.0%	100.0%	1	3,600,677	30,974,160	30,974,160	100.0%	1
2032	2034	4,232,496	2,846,751	0	100.0%	100.0%	0	0	33,990,829	33,990,829	100.0%	0
2033	2035	4,333,549	2,895,773	0	100.0%	100.0%	0	0	37,853,914	37,853,914	100.0%	0
2034	2036	4,437,714	2,933,541	0	100.0%	100.0%	0	0	38,354,999	38,354,999	100.0%	0
2035	2037	4,579,707	2,967,529	0	100.0%	100.0%	0	0	38,871,655	38,871,655	100.0%	0
2036	2038	4,715,925	2,995,347	0	100.0%	100.0%	0	0	39,413,085	39,413,085	100.0%	0
2037	2039	4,862,341	3,016,931	0	100.0%	100.0%	0	0	39,988,057	39,988,057	100.0%	0
2038	2040	5,017,624	3,035,385	0	100.0%	100.0%	0	0	40,604,165	40,604,165	100.0%	0
2039	2041	5,182,650	3,048,737	0	100.0%	100.0%	0	0	41,270,957	41,270,957	100.0%	0
2040	2042	5,357,606	3,057,048	0	100.0%	100.0%	0	0	41,998,960	41,998,960	100.0%	0

All numbers are in thousands