

CONNECTICUT STATE TEACHERS'
RETIREE HEALTH CARE PLAN
REPORT ON THE ACTUARIAL VALUATION
AS OF JUNE 30, 2008

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November 12, 2008

Board of Trustees Connecticut State Teachers' Retirement System 765 Asylum Avenue Hartford, CT 06105

Dear Members of the Board:

Submitted in this report are the results of an Actuarial Valuation of the liabilities associated with the employer financed retiree health benefits provided by the Connecticut State Teachers' Retirement System ("System"). The date of the valuation was June 30, 2008, effective for the fiscal year July 1, 2008 through June 30, 2009, and July 1, 2009 through June 30, 2010. This report was prepared at the request of the Connecticut State Teachers' Retirement System.

The actuarial calculations were prepared for purposes of complying with the requirements of Statements No. 43 and No. 45 of the Governmental Accounting Standards Board (GASB). The calculations reported herein have been made on a basis consistent with our understanding of these accounting standards. Determinations of the liability associated with the benefits described in this report for purposes other than satisfying the System's financial reporting requirements may produce significantly different results. This report may be provided to parties other than the Connecticut State Teachers' Retirement System only in its entirety and only with the permission of the Connecticut State Teachers' Retirement System.

The valuation was based upon information, furnished by the System, concerning retiree health benefits, individual members, and financial data. Data was checked for internal consistency, but was not otherwise audited.

To the best of our knowledge, this report is complete and accurate and was made in accordance with generally recognized actuarial methods.

Each of the undersigned are Members of the American Academy of Actuaries and together meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,

Brian Murphy, FSA, MAAA, EA

Amy Williams, ASA, MAAA

Umy Williams

BBM:mf



EXECUTIVE SUMMARY

Annual Required Contribution

This report presents the annual expense required to be recognized by the plan sponsor for purposes of complying with the accounting requirements of the Governmental Accounting Standards Board Statement No. 45. Based on the information provided by the employer, implementation of GASB Statement No. 45 will begin with the fiscal year ending June 30, 2008.

The Annual Required Contribution (ARC) is \$116.7 and \$121.3 million for the fiscal years ending June 30, 2009, and June 30, 2010, respectively. The ARC was calculated based on the cost of providing the subsidy and the Medicare Supplement coverage. Costs covered by members through Medicare Supplement premiums are excluded from the actuarial liabilities and normal cost. In the first year GASB Statement No. 45 is adopted, the annual OPEB cost required to be disclosed on the employer's financial statements is equal to the ARC. Actual premiums paid on behalf of retirees may be treated as employer contributions in relation to the ARC and act to reduce the Net OPEB Obligation (NOO).

For additional details please see Section B of the report.

Additional OPEB Reporting Requirements

In addition to the annual OPEB cost described above, employers will have to disclose a Net OPEB Obligation (or asset). The Net OPEB Obligation is the cumulative difference between annual OPEB costs and annual employer contributions in relation to the ARC, accumulated from the implementation of Statement No. 45. The Net OPEB Obligation is zero as of the beginning of the fiscal year that Statement No. 45 is implemented, in this case, July 1, 2007, unless the employer chooses to recognize a beginning balance.

The requirements for determining the employer's contributions in relation to the ARC are described in paragraph 13 g. of Statement No. 45. Additional information required to be disclosed in the employer's financial statements is detailed in paragraphs 24 through 27 of Statement No. 45.

EXECUTIVE SUMMARY (CONTINUED)

Liabilities and Assets

The present value of all benefits expected to be paid to current plan members as of June 30, 2008 is \$3.29 billion. The actuarial accrued liability, which is the portion of the \$3.29 billion attributable to service accrued by plan members as of June 30, 2008, is \$2.32 billion. As of June 30, 2008, there are no valuation assets available to offset the liabilities of the plan.

The liabilities and ARC have been calculated based on our understanding of Section 10-183(t) of the Connecticut Statutes and the plan provisions as provided by the System's staff. The statutes divide the cost of providing health care benefits into three components. Retired members pay 1/3 of the cost directly through premiums, the State pays 1/3 of the cost on a year-to-year basis and the remainder is covered by active member contributions of 1.25 percent of pay through the Health Insurance Premium Account. We have not included any accumulated assets, because it is our understanding that they do not qualify as assets per GASB Statements Nos. 43 and 45. To qualify as plan assets under GASB Statements Nos. 43 and 45, the following three conditions must be satisfied:

- employer contributions to the plan are irrevocable
- plan assets are dedicated to providing benefits to plan members and their beneficiaries under the terms of the plan
- plan assets are legally protected from creditors of the employer(s) or the plan administrator

The information presented in this report represents the State's portion of the cost of providing retiree health care benefits. We have assumed that the State would pay for any long-term shortfall that arises should the current active member contribution rate be insufficient. This assumption is based on our understanding of Subsection D of Section 10-183(t) of the Connecticut statutes.

SECTION A

OVERVIEW

GASB BACKGROUND

The purpose of this valuation is to provide information on the cost associated with providing postemployment benefits other than pensions, or OPEB, to current and former employees. OPEB benefits are most often associated with postemployment health care, but cover almost any benefit not provided through a pension plan, including life insurance, dental and vision benefits. It is important to note that OPEB benefits, by definition, do not include benefits *currently* being provided to active employees – however, this report includes the liabilities for benefits expected to be paid to current active employees when they terminate employment at a future date.

The rising cost of health care has been a cause of concern to both individuals and employers who sponsor health care plans. The accounting community became concerned that many sponsors of public plans were accounting for the cost of their OPEB plans solely on the basis of benefits paid and that this method did not accurately reflect the ultimate cost of benefits promised to current and former employees. In 1988 the Governmental Accounting Standards Board (GASB) began working on a project to develop comprehensive standards for financial reporting of OPEB plans.

The GASB determined that an OPEB plan was similar to a pension plan in that benefits are earned during an active employee's working lifetime but paid out at a future date. In the GASB's view, accounting for OPEB should follow the same basic principle as accounting for public plan pension costs. These benefits are compensation for employees' services and should be accounted for during the period of time that services are performed.

GASB BACKGROUND (CONTINUED)

The GASB worked on comprehensive standards for OPEB accounting for more than a decade, culminating with the release of GASB Statements No. 43 and No. 45 in the spring of 2004. GASB Statement No. 43 covers the accounting rules for OPEB *plans* while GASB Statement No. 45 describes the rules for *employers* sponsoring OPEB plans. The effective dates of the Statements are based on the implementation of GASB Statement No. 34, based on the sponsor's annual revenue for the first fiscal year ending on or after June 15, 1999, and follow the schedule below:

Total Annual Revenue In the First Fiscal Year Ending After June 15, 1999	GASB Statement No. 43 OPEB Standards for the Plan's Financial Statements will be Effective for Periods Beginning After	GASB Statement No. 45 OPEB Standards for the Employer's Financial Statements will be Effective for Periods Beginning After
Phase 1 Govts \$100 million or more Phase 2 Govts \$10 million or more,	December 15, 2005	December 15, 2006
but less than \$100 million	December 15, 2006	December 15, 2007
Phase 3 Govts. – Less than \$10 million	December 15, 2007	December 15, 2008

GASB STANDARDS

Unlike pension plans, OPEB plans often do not have a formal document detailing the specific terms of the plan. Under GASB No. 43 and No. 45 the benefits to be accounted for are those provided by the *substantive plan* – loosely defined as the benefits covered by the plan as understood by the employer and plan members at the time of each actuarial valuation. The substantive plan provisions used in this valuation are summarized in Section D.

GASB also requires that the calculations assume the terms of the substantive plan continue indefinitely. It has been argued that there is a likelihood future OPEB plan provisions would be different than the current substantive plan (due to rising health care costs or social changes) and therefore liabilities based on the current substantive plan may overstate what will actually occur. However, the GASB Statement is designed to measure liabilities for the plan as it currently exists. While it may be reasonable to assume future changes in the OPEB plan for other purposes, recognition of anticipated changes is not allowed for purposes of accounting for OPEB.

The specific items required to be disclosed on an OPEB sponsor's financial statements are described in detail in GASB Nos. 43 and 45. In general terms, though, the plan sponsor is required to disclose an annual OPEB cost, the funded status of the plan and the funding progress on the valuation date.

Although GASB does not require OPEB contributions, it has chosen to call the base component of the annual OPEB cost the Annual Required Contribution, or ARC. The ARC consists of the cost of benefits accruing in a year plus an amount calculated to amortize any unfunded actuarial accrued liability over a period of not more than 30 years.

The funded status of the plan is a ratio of the plan's assets (if any) to the actuarial accrued liability on the valuation date. The plan is also required to disclose the cumulative difference between the ARC and the employer's actual contribution to the plan. This amount is known as the Net OPEB Obligation (NOO). Each year, the NOO accumulates with interest, plus the difference between the ARC and actual contributions for the year, plus some technical adjustments. For most plans the NOO is set to zero as of the effective date of the GASB OPEB standard. It is the NOO, and not the actuarial accrued liability, that will be disclosed on the employers' Statement of Net Assets.

OPEB SPECIFIC ASSUMPTIONS

In any long-term actuarial valuation (such as for pensions and OPEB), certain demographic, economic and behavioral assumptions must be made concerning the population, investment discount rates, and the benefits provided. These actuarial assumptions form the basis for the actuarial model which is used to project the future population, benefits to be provided, and contributions to be collected. The investment return rate assumption is used to discount the future benefits to a present value on the valuation date. While assumptions such as future rates of retirement and mortality are similar for both OPEB and pension plans, there are some additional assumptions required when projecting benefits for a health care plan.

Health care increase rates used in this valuation lie within a range of reasonable assumptions, and are described in Section G of this report.

The selection of an investment return rate also has a major impact on the calculation of the reported GASB OPEB expense.

It is important to note that GASB Statements No. 43 and No. 45 require the selection of an interest rate assumption to be based on the expected long-term rate of return on the assets expected to pay the OPEB when due. GASB states that the return should be based on expected returns of:

- Plan assets if the sponsor has been contributing the ARC on a regular basis;
- The employer's general assets where no OPEB assets have been accumulated;
- A blend of plan and employer assets in cases where OPEB assets exist but the plan is contributing amounts less than the ARC.

ACTUARIAL COST METHOD

GASB Statement No. 45 provides some flexibility to governmental employers (and their actuaries) in the use of various actuarial cost methods. It should be noted that an actuarial cost method determines a contribution or expense by assigning portions of the present value of projected benefits to various years with the general goal of accruing the cost of benefits over the working lifetime of the employees. The choice of a particular method does not change the ultimate cost of the promised benefits.

The Entry Age Normal Level Percent of Payroll actuarial cost method has been used to calculate the GASB ARC for this valuation. Using the plan benefits, the present health premiums and a set of actuarial assumptions, the anticipated future payments are projected. The entry age method then provides for a systematic funding for these anticipated payments. The yearly ARC is computed to cover the cost of benefits being earned by covered members as well as to amortize a portion of the unfunded accrued liability. If experience is in accordance with the assumptions used, the ARC will increase at approximately the same rate as active member payroll, and the ARC as a percentage of payroll will remain basically level on a year to year basis. This is both an acceptable and reasonable cost method. The use of another actuarial cost method would produce different results.

OPEB PREFUNDING

Many employers fund retiree heath care benefits using the pay-as-you-go (or cash disbursement) method. The employer's annual contribution for these benefits is equal to the actual disbursements during the year for health care benefits for retired employees. This method of funding will result in increasing contributions over time. First, per capita cash disbursements will tend to increase from year to year as the cost of health care services, or the utilization of these services increase. Second, the number of retired members is likely to increase for years to come. The more retirees, the greater the disbursements as a percentage of employee payroll.

A retiree health care plan is similar to a defined benefit pension plan, in that promises are made to employees to provide them with a benefit payable at some future date. For defined benefit pension plan sponsors a common funding objective is to contribute annual amounts to a fund which will i) remain level as a percentage of active member payroll, and ii) when combined with present assets and future investment return will be sufficient to meet the financial obligations of the Plan to current and future retirees.

The ultimate determination as to the level of pre-funding will be the result of decisions made in an attempt to reconcile the often conflicting needs of benefit security for members and fiscal responsibility for the State. The GASB accounting standards noted in the previous section of the report can factor into decisions concerning the level of pre-funding.



VALUATION RESULTS

DEVELOPMENT OF THE ANNUAL REQUIRED CONTRIBUTION FOR THE OTHER POST EMPLOYMENT BENEFITS

	J	Results at June 30, 2006	Results at June 30, 2008		
Normal Cost	\$	69,182,120	\$	73,841,402	
Annual Active Member Contribution	\$	38,185,853	\$	41,806,944	
Employer Normal Cost	\$	30,996,267	\$	32,034,458	
Amortization of Unfunded Actuarial Accrued Liabilities (Amortized over 30 years)	\$	80,660,451	\$	84,632,358	
Annual Required Contribution (ARC) (1) for Year Ending June 30, 2007/2009 (2) for Year Ending June 30, 2008/2010	\$	111,656,718 116,122,987	\$	116,666,816 121,333,489	
Expected Pay Paid for the Fiscal Year Ending June 30, 2007/2009	\$	3,094,868,241	\$	3,384,555,528	
ARC as a Percentage of Projected Payroll		3.61%		3.45%	
ARC Per Active Participant	\$	2,189	\$	2,255	

The unfunded actuarial accrued liabilities were amortized as a level percent of active member payroll over a period of 30 years. A 30-year amortization period for unfunded actuarial accrued liabilities is the maximum period that complies with GASB requirements.

DETERMINATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY AS OF JUNE 30, 2008

			June 30, 2006		June 30, 2008
A.	Present Value of Future Benefits				
	1. Retirees and Beneficiaries	\$	1,084,152,862	\$	1,191,152,347
	2. Inactive Members		62,090,339		66,173,001
	3. Active Members	_	1,951,215,452	_	2,036,046,563
	Total Present Value of Future Benefits	\$	3,097,458,653	\$	3,293,371,911
В.	Present Value of Future Employer Normal Costs	\$	418,647,086	\$	434,641,196
C.	Present Value of Future Contributions from Current Active Members	\$	468,797,115	\$	539,890,030
D.	Actuarial Accrued Liability (ABC.)	\$	2,210,014,452	\$	2,318,840,685
E.	Actuarial Value of Assets	\$	-	\$	-
F.	Unfunded Actuarial Accrued Liability (DE.)	\$	2,210,014,452	\$	2,318,840,685

The Unfunded Actuarial Accrued Liability (UAAL) is not booked as an expense all in one year and does not appear in the Employer's Statement of Net Assets. Nevertheless, it is reported in the Notes to the Financial Statements and in the Required Supplementary Information. These are information sections within the employer's financial statements.

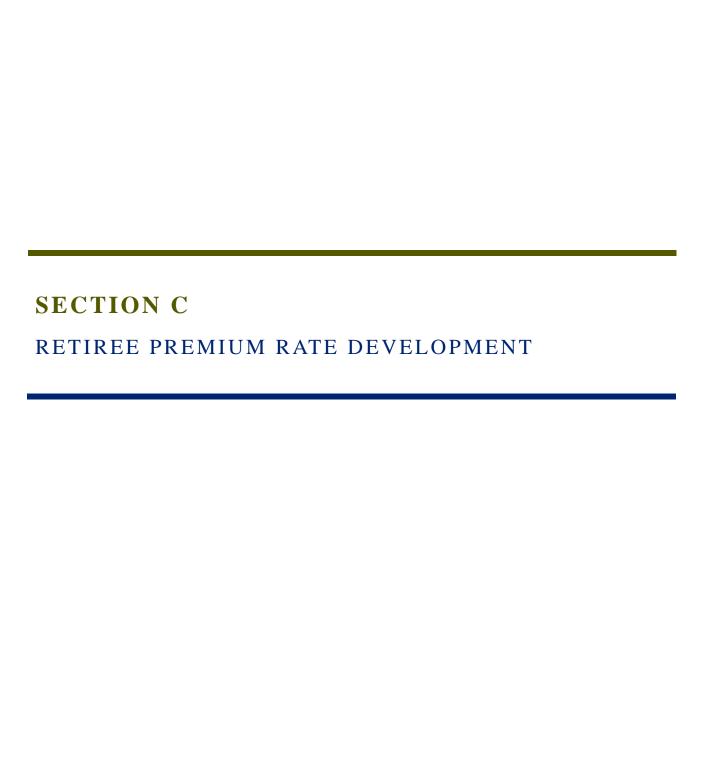
COMMENTS

COMMENT A: One of the key assumptions used in any valuation of the cost of post-employment benefits is the rate of return on Plan assets. Higher assumed investment returns will result in a lower ARC. Lower returns will tend to increase the computed ARC. If the Plan Sponsor chooses to prefund with contributions less than the ARC (or not pre-fund at all), GASB requires the use of a lower rate of return on assets. Because the Plan Sponsor is currently not pre-funding post-employment benefits, we have calculated the liability and the resulting ARC using a rate of return commensurate with short-term investments. Pre-funding the plan would allow for the use of a higher rate of return reflecting longer-term investments and would considerably decrease the ARC and the net OPEB obligation that is disclosed on the employer's financial statement. If the plan is pre-funded, the ARC would be reduced to \$67.9 million or 2.01% of pay, assuming a 7.5 percent rate of return (this value compares to the un-funded ARC of 3.45% as shown on page B-1 of the report). The total liabilities under the pre-funding scenario are \$1.52 billion with a total normal cost of 0.92 percent of pay.

COMMENT B: Based on the number of plan members as of this valuation, the plan sponsor is required by GASB to perform annual actuarial valuations at least biannually. This permits fluctuations and trends in experience to be reflected in the contribution rate on a regular basis.

COMMENT C: The ARC shown in this report has been calculated to increase at the same rate as the projected increase in active member payroll (4% per year).

COMMENT D: The contribution rates shown include amortization of the unfunded actuarial accrued liability over 30 years. This is the maximum time period permitted by the Governmental Accounting Standards Board Statements No. 43 and No. 45. A shorter amortization period would result in a higher ARC.



RETIREE PREMIUM RATE DEVELOPMENT

Initial premiums are required for one class of retirees (post-65 retirees who elect the Medicare Supplement coverage). These premiums were developed using the medical claims experience from Stirling & Stirling, Inc. and the prescription drug claim experience from Medco in conjunction with the exposure data for the corresponding claim experience periods for the retired members of the retiree health care program. The premiums were developed using claims from fiscal years 2006 through 2008.

The premium rates for the medical and prescription drug coverage were blended into one composite post-65 per capita premium rate. This composite premium rate is used for both current and future retirees. The vision, hearing and dental coverage are completely funded by member contributions; therefore, these benefits were excluded from the premium rate development and do not impact the projected premiums going forward.

Age graded and sex distinct premiums are utilized by this valuation. The premium developed by the preceding process is appropriate for the unique age and sex distribution currently existing. Over the future years covered by this valuation, the age and sex distribution will most likely change. Therefore, our process "distributes" the average premium over all age/sex combinations and assigns a unique premium for each combination. This process more accurately reflects health care costs in the retired population over the projection period.

RETIREE PREMIUM RATE DEVELOPMENT (CONTINUED)

The monthly one-person premium rates including medical and prescription drug benefits at select ages are shown below:

Per Capita Premium Rates for Medicare Supplement						
Age	Male	Female				
65	\$262.51	\$241.74				
70	302.80	272.28				
75	336.16	298.34				
80	360.43	317.71				
85	374.85	329.10				

Based on the guidance provided by GASB on issues related to Medicare Part D payments to State and Local Governments effective June 30, 2006, an employer should apply the measurement requirements of GASB Statement No. 45 to determine the actuarial accrued liabilities, the annual required contribution of the employer, and the annual OPEB cost without reduction for Retiree Drug Subsidy (RDS) payments. Therefore the impact of the RDS that is part of the Medicare Prescription Drug Improvement and Modernization Act of 2003 is not reflected in this report.

The undersigned is a Member of the American Academy of Actuaries (M.A.A.A.) and meets the Qualification Standards of the American Academy of Actuaries to certify the per capita retiree health care rates shown above.

Brian T. Morris

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MEMBERS AS OF JUNE 30, 2008 BY HEALTH CARE PLAN AND COVERAGE TYPE

Members Receiving a Subsidy for Coverage	Retirees		Spouses		Total	
Under Former Employer	Male	Female	Male	Female	Total	
Pre-65 Covered Members	1,957	3,921	1,300	1,493	8,671	
Post-65 Covered Members	1,941	3,466	1,311	1,301	8,019	
Total	3,898	7,387	2,611	2,794	16,690	

M. F C	Retirees		Spouses		Total	
Medicare Supplement Plan Type ¹	Male	Female	Male	Female	Total	
Medical with Prescriptions	1,500	2,648	988	891	6,027	
Medical with Prescriptions, Vision & Hearing	2,073	3,265	1,388	991	7,717	
Vision & Hearing	25	72	67	21	185	
Total	3,598	5,985	2,443	1,903	13,929	

¹Each of the following plan types can include dental.

Members electing vision, hearing, and/or dental coverage pay the full cost of coverage; thus, there is no liability associated with these benefits. Assumptions regarding the percentage of retirees that elect the Medicare supplement plan versus receiving the subsidy are disclosed in Section G of this report.

SUMMARY OF KEY RETIREE HEALTH CARE BENEFITS

Benefit	Coverage
Individual Member Deductible:	\$0
Coinsurance	20%
Dollar Maximum:	\$1 million under Major Medical (lifetime per member for all covered services)
Basic Hospital Benefits:	Medicare Part A hospital deductible. Share of expenses from 61 st to 90 th day not covered by Medicare Part A.
Basic Medical Benefits:	Co-insurance balance after Medicare and calendar year deductible
Major Medical Benefits:	80% of covered expenses
Prescription Drugs Retail:	
Deductible	\$250
Out-of-Pocket Maximum	\$1,000 (per calendar year)
Non-maintenance Coinsurance Generic Preferred Non-Preferred	5/10% after 2 refills 20% 30%
Maintenance Coinsurance Generic Preferred Non-Preferred	5/10% after 2 refills 25% 35%
Mail Order Prescription Drugs: Maintenance Coinsurance Generic Preferred Non-Preferred	5% 20% 30%



CONNECTICUT STATE TEACHERS' RETIREMENT SYSTEM
RETIREE HEALTH CARE PLAN

SUMMARY OF BENEFITS AS OF JUNE 30, 2008

Outlined below are the principal provisions of the System which were reflected in the results shown

in this report.

1. Covered Employees

Any teacher, principal, superintendent or supervisor engaged in service of public schools, plus

professional employees at State schools of higher education if they choose to be covered.

2. Credited Service

One month for each month of service as a teacher in Connecticut public schools, maximum 10

months for each school year. Ten months of credited service constitutes one year of Credited

Service. Certain other types of teaching service, State employment, or war-time military service

may be purchased at retirement, if the Member pays one-half of the cost.

3. Normal Retirement

Eligibility: Age 60 with 20 years of Credited Service in Connecticut or 35 years of Credited

Service including at least 25 years of service in Connecticut.

4. Early Retirement

Eligibility: At any age after the completion of 25 years of Credited Service including 20 years

of Connecticut service or at or after age 55 and the completion of 20 years of Credited Service

including 15 years of Connecticut service, with the last 5 years in Connecticut.

5. Proratable Retirement

Eligibility: Age 60 with 10 years of Credited Service, with the last 5 years in Connecticut.

6. Disability Retirement

Eligibility: Disability after 5 years of Credited Service in Connecticut if not incurred in the

performance of duty and without regard to service if incurred in the performance of duty.

CONNECTICUT STATE TEACHERS' RETIREMENT SYSTEM

RETIREE HEALTH CARE PLAN

SUMMARY OF BENEFITS AS OF JUNE 30, 2008 (CONTINUED)

7. Deferred Vested Retirement

Eligibility: 10 or more years of Credited Service.

8. Teachers' Required Contribution

Effective July 1, 1992, each teacher is required to contribute 6% of annual salary for the pension

benefit. An additional 1.25% of annual salary is contributed for health insurance of retired

teachers, except for the first \$500,000 of such total.

9. Retiree Health Care Coverage

Any member that is currently receiving a retirement or disability benefit is eligible to participate

in the health care plan. There are two components of the health care benefits offered through

the system: a subsidy paid to members still receiving coverage through their former employer

and Medicare Supplement coverage for those participating in Medicare, but not receiving the

subsidy.

Any member that is not currently participating in Medicare Parts A & B is eligible to continue

health care coverage with their former employer. A subsidy of up to \$110 for a retired member

plus an additional \$110 for a spouse enrolled in a local school district plan is provided to the

school district to first offset the employee's share of the cost of coverage, any remaining portion

is used to offset the district's cost. The subsidy amount is set by statute, (C. G. S. 10-183t) and

has not increased since July of 1996.

Any member that is currently participating in Medicare Parts A & B is eligible to either

continue health care coverage with their former employer, if offered, or enroll in the plan

sponsored by the CTRB. If they elect to remain in the plan with their former employer, the

same subsidies as above will be paid to offset the cost of coverage.

Connecticut State Teachers' Retiree Health Care Plan

D-2

CONNECTICUT STATE TEACHERS' RETIREMENT SYSTEM RETIREE HEALTH CARE PLAN SUMMARY OF BENEFITS AS OF JUNE 30, 2008 (CONTINUED)

If a member participating in Medicare Parts A & B so elects they can enroll in the health care plan sponsored by the CTRB. As of January 1, 2009, there are three choices for coverage. Active members, retirees, and the State pay equally toward the cost of the basic plan health insurance plan offered through the System. The costs of dental and vision coverage are paid entirely by the member. The choices and premiums charged are shown in the table below:

Coverage	Monthly Premium per Person - 2008	Monthly Premium per Person - 2009
Medicare Supplement with Prescriptions	\$90.00	\$99.00
Medicare Supplement with Prescriptions & Dental	\$132.00	\$144.00
Medicare Supplement with Prescriptions, Dental, Vision and Hearing	\$137.00	\$149.00

10. Survivor Health Care Coverage

Survivors of former employees or retirees remain eligible to participate in the plan and continue to be eligible to receive either the subsidy or participate in the plan sponsored by CTRB as long as they do not remarry.



SUMMARY OF PARTICIPANT DATA

CONNECTICUT STATE TEACHERS' RETIREMENT SYSTEM TOTAL ACTIVE MEMBERS AS OF JUNE 30, 2008 BY ATTAINED AGE AND YEARS OF SERVICE

	Years of Service to Valuation Date								Totals
Attained									Valuation
Age	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Payroll
Under 20	3							3	\$ 171,911
20-24	1,147	1						1,148	44,364,485
25-29	4,840	1,244	2					6,086	275,845,444
30-34	2,202	3,670	570					6,442	348,620,736
35-39	1,318	2,441	2,438	300	1			6,498	405,072,656
40-44	1,094	1,404	1,412	1,056	363			5,329	351,208,850
45-49	940	1,321	998	740	1,316	320		5,635	384,272,282
50-54	707	1,214	1,117	927	1,090	1,384	790	7,229	530,107,032
55-59	364	840	985	1,026	1,342	1,044	3,010	8,611	675,687,666
60-64	154	313	377	464	694	538	1,341	3,881	312,291,358
65 & Over	22	59	68	91	187	128	321	876	71,662,715
Totals	12,791	12,507	7,967	4,604	4,993	3,414	5,462	51,738	\$ 3,399,305,134

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 44.8 Years Service: 13.3 Years Annual Pay: \$65,702

CONNECTICUT STATE TEACHERS' RETIREMENT SYSTEM RETIRED MEMBERS AND SPOUSES ELECTING MEDICARE SUPPLEMENT COVERAGE AS OF JUNE 30, 2008 BY ATTAINED AGE

Medical with Prescriptions

Attained	Number o	Number of Retirees and Spouses							Number of Retirees and		
Age	Male	Male Female									
Under 65	6	9	15								
65-69	223	299	522								
70-74	427	626	1,053								
75-79	708	956	1,664								
80-84	637	768	1,405								
85 & Over	487	881	1,368								
Totals	2,488	3,539	6,027								

Medical with Prescriptions, Vision & Hearing

Attained	Number o	Number of Retirees and Spouses					
Age	Male	Male Female					
Under 65	18	19	37				
65-69	1,249	1,660	2,909				
70-74	1,006	1,180	2,186				
75-79	655	649	1,304				
80-84	330	403	733				
85 & Over	202	346	548				
Totals	3,460	4,257	7,717				

Vision & Hearing

Attained	Number of Retirees and Spouses			
Age	Male	Female	Total	
Under 65	0	0	0	
65-69	2	0	2	
70-74	15	19	34	
75-79	37	36	73	
80-84	25	24	49	
85 & Over	13	14	27	
Totals	92	93	185	



GASB 45 – SCHEDULE OF FUNDING PROGRESS

This information is presented in draft form for review by the State's auditor. Please let us know if there are any changes so that we may maintain consistency with the State's financial statements.

	Actuarial					UAAL as a
Actuarial	Value of	Actuarial Accrued	Unfunded	Funded	Covered	Percentage of
Valuation	Assets	Liability (AAL)	AAL (UAAL)	Ratio	Payroll	Covered Payroll
Date	(a)	(b)	(b-a)	(a/b)	(c)	((b-a)/c)
6/30/2006	\$ -	\$ 2,210,014,452	\$ 2,210,014,452	0.00%	\$3,137,684,279	70.43%
6/30/2008	\$ -	\$ 2,318,840,685	\$ 2,318,840,685	0.00%	\$3,399,305,134	68.22%

GASB 45 – SCHEDULE OF ANNUAL REQUIRED CONTRIBUTIONS

Annual Required Contribution

Year Ended		(a)		
06/30/2007	\$	111,656,718		
06/30/2008		116,122,987		
06/30/2009		116,666,816		
06/30/2010		121,333,489		

GASB STATEMENT NUMBERS 43 AND 45 REQUIRED SUPPLEMENTARY INFORMATION

Valuation Date	June 30, 2008	
Actuarial Cost Method	Individual Entry Age	
Amortization Method	Level Percent Open	
Remaining Amortization Periods	30 Years	
Asset Valuation Method	Not Applicable	
Actuarial Assumptions:		
Investment Rate of Return	4.50%	
Projected Salary Increases	4.0% - 7.5%	
Health Care Cost Trend Rate	9% Initial 4% Ultimate	

SECTION G

ACTUARIAL COST METHOD AND ACTUARIAL ASSUMPTIONS

VALUATION METHODS

Actuarial Cost Method. Normal cost and the allocation of benefit values between service rendered before and after the valuation date was determined using an Individual Entry-Age Actuarial Cost Method having the following characteristics:

- (i) the annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement;
- (ii) each annual normal cost is a constant percentage of the member's year by year projected covered pay.

Actuarial gains (losses), as they occur, reduce (increase) the Unfunded Actuarial Accrued Liability.

Financing of Unfunded Actuarial Accrued Liabilities. Unfunded actuarial accrued liabilities (UAAL) (full funding credit if assets exceed liabilities) were amortized by level (principal & interest combined) percent-of-payroll contributions. The UAAL amortization payment (one component of the contribution requirement), is the level percent-of-payroll required to fully amortized the UAAL over a 30 year period beginning on the valuation date.

Actuarial Value of System Assets. Until a prefunding approach is implemented, no methodology is needed to determine the actuarial value of assets.

ACTUARIAL ASSUMPTIONS

Economic Assumptions

The investment return rate used in making the valuation was 4.5% per year, compounded annually (net after administrative expenses). This rate of return is not the assumed real rate of return. The real rate of return is the portion of investment return which is more than the inflation rate. Considering wage inflation recognition of 4.0%, the 4.5% rate translates to an assumed real rate of return of 0.5%. No specific price inflation is required to perform this valuation; however, a price inflation assumption on the order of 3.0% or so would be consistent with the other economic assumptions. This rate was first used for the *June 30, 2006*, valuation.

Pay increase assumptions for individual active members are shown on page G-9. Part of the assumption is for a merit and/or seniority increase related to the member's years of service, and the other 4.0% recognizes wage inflation. These rates were first used for the **June 30**, **2006**, valuation.

The Active Member Group size is assumed to remain constant at its present level.

Total active member payroll is assumed to increase 4.0% per year, which is the portion of the individual pay increase assumptions attributable to wage inflation. This rate was first used for the **June 30, 2002,** valuation.

Non-Economic Assumptions

The mortality table used to measure non-disabled retired life mortality was the 2000 Retired Pensioners Combined Mortality Table projected forward 19 years using scale AA, with a two-year age setback for males and females. Related values are shown on page G-4. Both the male and female non-disabled retired life mortality were then given a 10-year age set-forward to be used for disabled retiree mortality. Rates for active male and female members are 75 percent of their respective retired member rates. **Pre-retirement mortality rates** are shown on page G-7. These tables were first used for the **June 30, 2006** valuation.

The probabilities of retirement for members eligible to retire are shown on page G-5. These rates were first used in the *June 30, 2006* valuation.

ACTUARIAL ASSUMPTIONS (CONTINUED)

The probabilities of withdrawal from service are shown for sample ages on page G-6. Disability rates are shown on page G-8. The withdrawal and disability rates were first used in the valuation as of June 30, 2006, and do not apply to members who are eligible for retirement.

The entry age actuarial cost method with level percent of payroll funding was used in determining the normal cost and actuarial accrued liabilities for the System.

Differences in the past between assumed experience and actual experience ("actuarial gains and losses") become part of actuarial accrued liabilities.

Unfunded actuarial accrued liabilities are amortized to produce contribution amounts (the total of principal and interest) which are level percent of payroll contributions.

The rates of electing coverage, as advised by fund staff, are as follows: for pre-65 members, it is assumed that 68 percent will elect the subsidy and 32 percent will elect no coverage. Of those electing the subsidy, it is assumed that 47 percent will cover a spouse. We have also assumed that the full \$110 subsidy will be paid for all future members and spouses electing the subsidy. For post-65 members, it is assumed that 45 percent will elect the Medicare Supplement Plan, 36 percent will elect to receive the subsidy, and 19 percent will elect no coverage. Of those electing the Medicare Supplement Plan, we have assumed that 38 percent will elect coverage for a spouse.

The amount of the Plan provided subsidy is currently \$110 and was assumed to remain at that level into the future.

The data about persons now covered was furnished by the System's administrative staff. Although examined for general reasonableness, the data was not audited by the Actuary.

The actuarial valuation computations were made by or under the supervision of a Member of the American Academy of Actuaries (M.A.A.A.).

POST-RETIREMENT MORTALITY PROBABILITIES

	% Dying Next Year		
Age	Male	Female	
50	0.1369%	0.1015%	
51	0.1440%	0.1098%	
52	0.1514%	0.1210%	
53	0.1701%	0.1363%	
54	0.1817%	0.1544%	
55	0.1986%	0.1755%	
56	0.2177%	0.2003%	
57	0.2517%	0.2332%	
58	0.2974%	0.2756%	
59	0.3388%	0.3162%	
60	0.3881%	0.3567%	
61	0.4376%	0.4038%	
62	0.4966%	0.4596%	
63	0.5760%	0.5286%	
64	0.6571%	0.6052%	
65	0.7659%	0.6953%	
66	0.8629%	0.7836%	
67	0.9744%	0.8824%	
68	1.1237%	0.9959%	
69	1.2537%	1.1058%	
70	1.3671%	1.2224%	
71	1.5149%	1.3510%	
72	1.6663%	1.5221%	
73	1.8437%	1.6572%	
74	2.0471%	1.8432%	
75	2.2802%	2.0100%	
76	2.5438%	2.2277%	
77	2.8943% 2.4128%		
78	3.2259% 2.6583%		
79	3.6581% 2.9844%		
80	4.1439% 3.2898%		

	% Dying Next Year		
Age	Male	Female	
81	4.6947%	3.6320%	
82	5.3179%	4.0147%	
83	6.0671%	4.4435%	
84	6.9094%	4.9260%	
85	7.7020%	5.4696%	
86	8.7312%	6.0831%	
87	9.6919%	6.9078%	
88	10.7454%	7.8529%	
89	12.1344%	8.9273%	
90	13.6910%	9.9435%	
91	15.1302%	11.2543%	
92	16.9960%	12.4375%	
93	18.5121%	13.6580%	
94	20.4586%	14.8872%	
95	22.0697%	16.4072%	
96	23.6783%	17.5976%	
97	25.7507%	18.7249%	
98	27.3309%	19.7713%	
99	28.8660%	21.1187%	
100	30.9359%	21.9730%	
101	32.3989%	22.7030%	
102	33.8068%	23.2996%	
103	35.8628%	24.4834%	
104	37.1685% 25.4498		
105	38.3040%	26.6044%	
106	39.2003% 27.9055		
107	39.7886% 29.31169		
108	40.0000% 30.7811%		
109	40.0000% 32.2725%		
110	100.0000% 100.0000%		
Ref	456 1.00 2	457 1.00 2	

PROBABILITIES OF AGE AND SERVICE RETIREMENT FOR MEMBERS ELIGIBLE TO RETIRE

	% of Active Participants Retiring					
	Unre	duced	Pror	Proratable		uced
Age	Male	Female	Male	Female	Male	Female
50	27.5%	15.0%			2.0%	2.0%
51	27.5%	15.0%			2.0%	2.0%
52	27.5%	15.0%			3.0%	4.0%
53	27.5%	15.0%			3.0%	4.5%
54	27.5%	15.0%			5.0%	5.5%
55	38.5%	30.0%			5.0%	7.5%
56	38.5%	30.0%			7.0%	8.5%
57	38.5%	30.0%			10.0%	9.5%
58	38.5%	30.0%			11.0%	10.0%
59	38.5%	30.0%			12.0%	10.0%
60	22.0%	20.0%	6%	5.4%		
61	25.3%	22.5%	6%	7.2%		
62	25.3%	22.5%	15%	9.9%		
63	27.5%	22.5%	10%	7.2%		
64	27.5%	22.5%	10%	7.2%		
65	36.3%	30.0%	20%	13.5%		
66	27.5%	30.0%	20%	10.8%		
67	27.5%	30.0%	20%	13.5%		
68	27.5%	30.0%	20%	10.8%		
69	27.5%	30.0%	35%	10.8%		
70	100.0%	40.0%	35%	10.8%		
71	100.0%	40.0%	35%	10.8%		
72	100.0%	40.0%	35%	10.8%		
73	100.0%	40.0%	35%	10.8%		
74	100.0%	40.0%	35%	18.0%		
75	100.0%	40.0%	40%	18.0%		
76	100.0%	40.0%	40%	18.0%		
77	100.0%	40.0%	40%	18.0%		
78	100.0%	40.0%	40%	18.0%		
79	100.0%	40.0%	40%	18.0%		
80	100.0%	100.0%	40%	18.0%		
Tbl	804	805	806	807	1094	1095
Anch	50	50	60	60	45	45
Mult	1.1	1	1	0.9	1	1

WITHDRAWAL RATES PRIOR TO ELIGIBILITY FOR RETIREMENT

	% of Active Participants Withdrawing				
Service-Based Withdrawal			Age-Based Withdrawal		
Service	Male	Female	Age	Male	Female
0-1	0.1400	0.1200	25	0.0120	0.0350
1-2	0.0850	0.0900	26	0.0120	0.0350
2-3	0.0550	0.0700	27	0.0120	0.0350
3-4	0.0450	0.0600	28	0.0120	0.0350
4-5	0.0350	0.0550	29	0.0120	0.0350
5-6	0.0250	0.0500	30	0.0120	0.0350
6-7	0.0240	0.0450	31	0.0120	0.0350
7-8	0.0230	0.0350	32	0.0120	0.0350
8-9	0.0220	0.0300	33	0.0120	0.0350
9-10	0.0210	0.0250	34	0.0120	0.0350
			35	0.0120	0.0350
			36	0.0120	0.0350
			37	0.0120	0.0350
			38	0.0120	0.0310
			39	0.0120	0.0270
			40	0.0120	0.0230
			41	0.0120	0.0190
			42	0.0120	0.0160
			43	0.0122	0.0150
			44	0.0124	0.0140
			45	0.0126	0.0130
			46	0.0128	0.0120
			47	0.0130	0.0110
			48	0.0152	0.0115
			49	0.0174	0.0120
			50	0.0196	0.0125
			51	0.0218	0.0130
			52	0.0240	0.0130
			53	0.0272	0.0140
			54	0.0304	0.0150
			55	0.0336	0.0160
			56	0.0368	0.0170
			57	0.0400	0.0180
			58	0.0400	0.0180
			59	0.0400	0.0190
Sw	407	408	Wx	735	736

PRE-RETIREMENT MORTALITY PROBABILITIES

	% Dying Next Year		
Age	Male	Female	
20	0.0164%	0.0108%	
21	0.0173%	0.0107%	
22	0.0180%	0.0106%	
23	0.0190%	0.0104%	
24	0.0198%	0.0105%	
25	0.0210%	0.0109%	
26	0.0220%	0.0113%	
27	0.0233%	0.0118%	
28	0.0253%	0.0127%	
29	0.0260%	0.0133%	
30	0.0268%	0.0140%	
31	0.0281%	0.0148%	
32	0.0303%	0.0164%	
33	0.0340%	0.0198%	
34	0.0383%	0.0225%	
35	0.0431%	0.0249%	
36	0.0479%	0.0269%	
37	0.0527%	0.0289%	
38	0.0574%	0.0307%	
39	0.0616%	0.0324%	
40	0.0645%	0.0343%	
41	0.0670%	0.0365%	
42	0.0695%	0.0398%	
43	0.0721%	0.0436%	
44	0.0753%	0.0479%	
45	0.0790%	0.0527%	
46	0.0833%	0.0579%	
47	0.0882%	0.0620%	
48	0.0927%	0.0662%	
49	0.0976%	0.0704%	
50	0.1027%	0.0761%	
51	0.1080%	0.0823%	
52	0.1136%	0.0908%	
53	0.1276%	0.1022%	
54	0.1363%	0.1158%	
55	0.1489%	0.1316%	
56	0.1633%	0.1502%	
57	0.1888%	0.1749%	
58	0.2231%	0.2067%	
59	0.2541%	0.2372%	
60	0.2911%	0.2675%	
61	0.3282%	0.3029%	
62	0.3725%	0.3447%	
63	0.4320%	0.3965%	
64	0.4928%	0.4539%	
65	0.5744%	0.5215%	
Ref	456 0.75 2	457 0.75 2	

DISABILITY RATES PRIOR TO ELIGIBILITY FOR RETIREMENT

Attained	9/ Recoming Disabled		
Attained Age	% Becoming Disabled Male Female		
Age	Maie	remate	
20	0.0455%	0.0500%	
21	0.0455%	0.0500%	
22	0.0455%	0.0500%	
23	0.0455%	0.0500%	
24	0.0455%	0.0500%	
25	0.0455%	0.0500%	
26	0.0455%	0.0500%	
27	0.0455%	0.0500%	
28	0.0455%	0.0470%	
29	0.0455%	0.0440%	
30	0.0455%	0.0410%	
31	0.0455%	0.0380%	
32	0.0455%	0.0350%	
33	0.0455%	0.0370%	
34	0.0455%	0.0390%	
35	0.0455%	0.0410%	
36	0.0455%	0.0430%	
37	0.0455%	0.0450%	
38	0.0520%	0.0540%	
39	0.0650%	0.0630%	
40	0.0715%	0.0720%	
41	0.0715%	0.0720%	
42	0.1040%	0.0910%	
43	0.1040%	0.1000%	
44	0.1170%	0.1000%	
45	0.1625%	0.1200%	
46	0.1820%	0.1200%	
47	0.2015%	0.1300%	
48	0.2340%	0.1400%	
49	0.2730%	0.1810%	
50		0.2630%	
	0.3250%	0.000,0	
51 52	0.3900%	0.3040%	
52 52	0.4615%	0.3450%	
53	0.5330%	0.3760%	
54 55	0.6175%	0.4070%	
55	0.7150%	0.4380%	
56 57	0.8320%	0.4690%	
57	0.9490%	0.5000%	
58	1.0790%	0.5000%	
59	1.2805%	0.5000%	
60	1.2805%	0.5000%	
Ref:	312 x 0.65	135 x 0.50	

PAY INCREASE ASSUMPTIONS FOR AN INDIVIDUAL MEMBER

	% Increases in Salaries Next Year			
Service	Merit & Seniority	Base	Total	
0	3.50%	4.00%	7.50%	
1	3.50%	4.00%	7.50%	
2	3.50%	4.00%	7.50%	
3	3.50%	4.00%	7.50%	
4	3.50%	4.00%	7.50%	
5	2.50%	4.00%	6.50%	
6	2.50%	4.00%	6.50%	
7	2.50%	4.00%	6.50%	
8	2.50%	4.00%	6.50%	
9	2.50%	4.00%	6.50%	
10	1.50%	4.00%	5.50%	
11	1.50%	4.00%	5.50%	
12	1.50%	4.00%	5.50%	
13	1.50%	4.00%	5.50%	
14	1.50%	4.00%	5.50%	
15	0.00%	4.00%	4.00%	
16	0.00%	4.00%	4.00%	
17	0.00%	4.00%	4.00%	
18	0.00%	4.00%	4.00%	
19	0.00%	4.00%	4.00%	
20	0.00%	4.00%	4.00%	
21	0.00%	4.00%	4.00%	
22	0.00%	4.00%	4.00%	
23	0.00%	4.00%	4.00%	
24	0.00%	4.00%	4.00%	
25	0.00%	4.00%	4.00%	
26	0.00%	4.00%	4.00%	
27	0.00%	4.00%	4.00%	
28	0.00%	4.00%	4.00%	
29	0.00%	4.00%	4.00%	
30	0.00%	4.00%	4.00%	
31	0.00%	4.00%	4.00%	
32	0.00%	4.00%	4.00%	
33	0.00%	4.00%	4.00%	
34	0.00%	4.00%	4.00%	
35	0.00%	4.00%	4.00%	
36	0.00%	4.00%	4.00%	
37	0.00%	4.00%	4.00%	
38	0.00%	4.00%	4.00%	
39	0.00%	4.00%	4.00%	
40	0.00%	4.00%	4.00%	
Ref	4	4.00%		

HEALTH CARE COST INCREASES

	Healthcare Trend Inflation			
Year	Subsidy	Claims Costs	Premiums ¹	
2008	0.0%	9.0%	10.0%	
2009	0.0	8.5	8.5	
2010	0.0	8.0	8.0	
2011	0.0	7.5	7.5	
2012	0.0	7.0	7.0	
2013	0.0	6.5	6.5	
2014	0.0	6.0	6.0	
2015	0.0	5.5	5.5	
2016	0.0	5.0	5.0	
2017	0.0	4.5	4.5	
2018	0.0	4.0	4.0	
2019	0.0	4.0	4.0	
2020 & Later	0.0	4.0	4.0	

¹ The first year trend rate for premiums reflects the increase from \$90 to \$99 in the premium charged to retirees for basic coverage.

MISCELLANEOUS AND TECHNICAL ASSUMPTIONS

Marriage Assumption: 85% of males and 75% of females are assumed to be married

for purposes of valuing death-in-service benefits.

Pay Increase Timing: Beginning of (fiscal) year.

Eligibility Testing: Eligibility for benefits is determined based upon the age

nearest birthday and service on the date the decrement is

assumed to occur.

Decrement Timing: Retirement decrements are assumed to occur at the beginning

of the year, other decrements are assumed to occur mid-year.

Decrement Relativity: Decrement rates are used directly from the experience study,

without adjustment for multiple decrement table effects.

Decrement Operation: Disability and turnover decrements do not operate after

member reaches retirement eligibility.

Incidence of Contributions: Contributions are assumed to be received continuously

throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at

the time contributions are made.

Trend Timing: Trend is assumed to occur at 12/31 for premiums and at 6/30

for health care claims.

Miscellaneous Loading Factors: None.



GLOSSARY

Accrued Service. The service credited under the plan which was rendered before the date of the actuarial valuation.

Actuarial Accrued Liability. The difference between (i) the actuarial present value of future plan benefits, and (ii) the actuarial present value of future normal cost. Sometimes referred to as "accrued liability" or "past service liability."

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

Actuarial Cost Method. A mathematical budgeting procedure for allocating the dollar amount of the "actuarial present value of future plan benefits" between the actuarial present value of future normal cost and the actuarial accrued liability. Sometimes referred to as the "actuarial funding method."

Actuarial Equivalent. A single amount or series of amounts of equal value to another single amount or series of amounts, computed on the basis of the rate(s) of interest and mortality tables used by the plan.

Actuarial Present Value. The amount of funds presently required to provide a payment or series of payments in the future. It is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

Amortization. Paying off an interest-bearing liability by means of periodic payments of interest and principal, as opposed to paying it off with a lump sum payment.

GLOSSARY (CONCLUDED)

Annual Required Contribution (ARC). The ARC is the normal cost plus the portion of the unfunded actuarial accrued liability to be amortized in the current period. The ARC is an amount that is actuarially determined in accordance with the requirements so that, if paid on an ongoing basis, it would be expected to provide sufficient resources to fund both the normal cost for each year and the amortized unfunded liability.

Governmental Accounting Standards Board (GASB). GASB is the private, nonpartisan, nonprofit organization that works to create and improve the rules U.S. state and local governments follow when accounting for their finances and reporting them to the public.

Medical Trend Rate (Health Care Inflation). The increase in the cost of providing health care benefits over time. Trend includes such elements as pure price inflation, changes in utilization, advances in medical technology, and cost shifting.

Normal Cost. The annual cost assigned, under the actuarial funding method, to current and subsequent plan years. Sometimes referred to as "current service cost." Any payment toward the unfunded actuarial accrued liability is not part of the normal cost.

Other Post-Employment Employee Benefits (OPEB). OPEB are post-employment benefits other than pensions. OPEB generally takes the form of health insurance and dental, vision, prescription drugs or other health care benefits.

Reserve Account. An account used to indicate that funds have been set aside for a specific purpose and are not generally available for other uses.

Unfunded Actuarial Accrued Liability. The difference between the actuarial accrued liability and valuation assets. Sometimes referred to as "unfunded accrued liability."

Valuation Assets. The value of current plan assets recognized for valuation purposes.