CONNECTICUT TEACHERS' RETIREMENT SYSTEM

ACTUARIAL FUNDING REPORT

AS OF JULY 1, 1979

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HOOKER & HOLCOMBE, INC.

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January 25, 1980

Hon. Rosalyn Schoonmaker Chairman Connecticut Teachers' Retirement Board Hartford, CT

Madam:

We are pleased to provide our actuarial study concerning the advance funding of the complete Teachers' Retirement System. The report includes the calculation of the Unfunded Past Service Liability, a recommended annual Normal Cost contribution, and information on transitional funding in accordance with PA 79-436.

Since that bill becomes effective on July 1, 1980, contributions for the 1979-80 plan year continue to be on the current terminal funding plus cash payment basis. Because of the grading schedule approved, this same basis will continue to be the basis of contribution to the system for several more years. The chart in Section IV shows a projection of contribution amounts and the basis for these deposits.

We look forward to meeting with you and the Board to review the report and answer questions on its contents.

Sincerely,

Sherrie.B. Desmond

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SECTION I

Introduction

The Connecticut Teachers' Retirement Board has long considered the advance funding of the State Teachers' Retirement System to be in the best interest of Connecticut's Teachers. A transition to advance funding was enacted by the 1979 Connecticut State Legislature.

We have been requested to value the assets and liabilities of the System and to calculate the Unfunded Accrued Liability and the annual Normal Cost of the System as of June 30, 1979. The figures include the total liabilities for both active and retired teachers, terminated teachers with vested rights, and survivors and dependents. In addition to retirement benefits including the cost-of-living provision, the system provides disability benefits, pre-retirement death benefits, and the return of employee contributions for pre-retirement death and non-vested termination.

The Actuarial Balance Sheet is developed in Section II, Funding is discussed in Section III, and the expected required contributions are developed in Section IV. The actuarial assumptions on which the figures are based are detailed in Section V. The results are certified in Section VI.

Supporting exhibits summarize the data used, develop the asset adjustment and the normal cost, and provide a plan summary.

SECTION II

ACTUARIAL BALANCE SHEET

The essential elements of the actuarial valuation process are shown by the actuarial balance sheet. The description of the funding method in Section V defines and explains the terms used in this actuarial balance sheet.

Retired Employees Pensions (including cost of living and legislative in- creases to 6-30-79): 5% Annuities 123,357,000 4,985,000 Terminated Vested Employees 22,098,000 Survivors and Dependents TOTAL Source of Funds Unfunded Accrued Liability Adjusted Asset Value (see Exhibit B) Present Value of Future Employee Contributions Present Value of Future State Normal Cost Contributions (see Exhibit C) 4616,328,000 123,357,000 4,985,000 \$ 744,670,000 4,985,000 \$ 744,670,000 \$ 12,475,000 \$ 31,531,356,000 \$ 1,010,152,000 408,797,000			July 1, 1979
Benefits (including future cost of living increases) for: Active Employees Retired Employees Pensions (including cost of living and legislative increases to 6-30-79): 5% Annuities 123,357,000 1% and Voluntary Annuities Survivors and Dependents TOTAL Source of Funds Unfunded Accrued Liability Adjusted Asset Value (see Exhibit B) Present Value of Future Employee Contributions Present Value of Future State Normal Cost Contributions (see Exhibit C) \$2,472,254,000 \$2,472,254,000 \$2,472,254,000 \$2,472,254,000 \$2,472,254,000 \$3,28,000 \$3,3251,325,000 \$3,3251,325,000 \$3,251,497,000	Actuarial Liabilities		
Retired Employees Pensions (including cost of living and legislative in- creases to 6-30-79): 5% Annuities 123,357,000 4,985,000 Terminated Vested Employees 22,098,000 Survivors and Dependents TOTAL Source of Funds Unfunded Accrued Liability Adjusted Asset Value (see Exhibit B) Present Value of Future Employee Contributions Present Value of Future State Normal Cost Contributions (see Exhibit C) 4616,328,000 123,357,000 4,985,000 \$ 744,670,000 4,985,000 \$ 744,670,000 \$ 12,475,000 \$ 31,531,356,000 \$ 1,010,152,000 408,797,000	Benefits (including future cost		
Pensions (including cost of living and legislative increases to 6-30-79): 5% Annuities 123,357,000 1% and Voluntary Annuities 22,098,000 Terminated Vested Employees 22,098,000 Survivors and Dependents 12,475,000 Source of Funds Unfunded Accrued Liability Adjusted Asset Value (see Exhibit B) Present Value of Future Employee Contributions Present Value of Future State Normal Cost Contributions (see Exhibit C) 408,797,000	Active Employees		\$2,472,254,000
Terminated Vested Employees 22,098,000 Survivors and Dependents 12,475,000 TOTAL \$3,251,497,000 Source of Funds Unfunded Accrued Liability \$1,531,356,000 Adjusted Asset Value (see Exhibit B) 1,010,152,000 Present Value of Future Employee Contributions 301,192,000 Present Value of Future State Normal Cost Contributions (see Exhibit C) 408,797,000	Pensions (including cost of living and legislative increases to 6-30-79): 5% Annuities	123,357,000	
Survivors and Dependents TOTAL Source of Funds Unfunded Accrued Liability Adjusted Asset Value (see Exhibit B) Present Value of Future Employee Contributions Present Value of Future State Normal Cost Contributions (see Exhibit C) 408,797,000			\$ 744,670,000
Source of Funds Unfunded Accrued Liability \$1,531,356,000 Adjusted Asset Value (see Exhibit B) 1,010,152,000 Present Value of Future Employee Contributions 301,192,000 Present Value of Future State Normal Cost Contributions (see Exhibit C) 408,797,000	Terminated Vested Employees		22,098,000
Source of Funds Unfunded Accrued Liability \$1,531,356,000 Adjusted Asset Value (see Exhibit B) 1,010,152,000 Present Value of Future Employee Contributions 301,192,000 Present Value of Future State Normal Cost Contributions (see Exhibit C) 408,797,000	Survivors and Dependents		12,475,000
Unfunded Accrued Liability \$1,531,356,000 Adjusted Asset Value (see Exhibit B) 1,010,152,000 Present Value of Future Employee Contributions 301,192,000 Present Value of Future State Normal Cost Contributions (see Exhibit C) 408,797,000	TOTAL		\$3,251,497,000
Unfunded Accrued Liability \$1,531,356,000 Adjusted Asset Value (see Exhibit B) 1,010,152,000 Present Value of Future Employee Contributions 301,192,000 Present Value of Future State Normal Cost Contributions (see Exhibit C) 408,797,000	Source of Funda		
Adjusted Asset Value (see Exhibit B) Present Value of Future Employee Contributions Present Value of Future State Normal Cost Contributions (see Exhibit C) 1,010,152,000 301,192,000	Source of runds		
Present Value of Future Employee Contributions Present Value of Future State Normal Cost Contributions (see Exhibit C) 408,797,000	Unfunded Accrued Liability		\$1,531,356,000
Contributions Present Value of Future State Normal Cost Contributions (see Exhibit C) 408,797,000	Adjusted Asset Value (see Exhibit B)		1,010,152,000
Cost Contributions (see Exhibit C) 408,797,000	- - -		301,192,000
TOTAL \$3,251,497,000	·		408,797,000
	TOTAL	٠.	\$3,251,497,000

SECTION III

FUNDING THE SYSTEM

In 1979, the legislature enacted PA 79-436 which amended the statues to provide for eventual advance funding of the State Teachers' Retirement System. The transition is to begin on a graduated basis in fiscal year 1981-82 by payment of 35 percent of the sum of the normal cost and a 40 year amortization of the unfunded accrued liability. In fiscal year 1994-95 the transition period will be complete and the full normal cost plus a 40 year amortization of unfunded liability will be paid.

Currently, benefits under the System, other than the cost-of-living provisions and survivors' and dependents' benefits, are funded on a "terminal funding" basis. Under this funding method, moneys are drawn from the State each year to cover all expected future pension payments (excluding cost-of-living increases) to Members retiring in that year. Cost-of-living and legislative increases are on a pay-as-you-go basis. Survivors' and dependents benefits have been funded primarily from forfeitures of members 1% contributions and interest, with additional state appropriations when necessary.

Since 1971 recommendations have been made by commissions, actuaries, legislators and the Teachers' Retirement Board to advance fund this System. Advance funding means any of several methods of setting aside funds for the retirement years while an employee is still an active Member. Advance funding is in accord with accepted actuarial practices while terminal funding and pay-as-you-go are not. In fact, both terminal funding and pay-as-you-go are specifically prohibited under ERISA (Employee Retirement Income Security Act of 1974), federal pension legislation covering non-governmental plans.

There are two important difficulties with this type of funding.

The first is the tendency for annual costs to increase sharply over the years. In essence this causes a budgeting difficulty for the State. Under accrual accounting principles expenses should be charged when they are incurred. Pensions that are based on wages and service are closely related to salaries in the year earned. It seems then that pensions should be charged over an employee's years of active service, and if possible, be a function of his salary. Terminal funding charges too little to the present and defers too much to the future. That is, a charge relating to today's payroll is being deferred to the future.

The second problem is the security of the teachers' benefits. While it is unlikely that the State would cut all funds to the System over a period of years, pressing needs elsewhere may cause the Legislature to balk at some point. Under the present system of funding there are no assets covering the accrued benefits of presently active teachers. Even an employee who has vested rights under the plan has no funds set aside to provide his benefits.

Currently the average completed years of service for Connecticut teachers is 11.2. Since a Member is vested with 10 years of Service, this means that a very large proportion of the members are vested in their accrued benefits. In other words, if these members left their jobs, the State would still be liable for the value of their accrued benefits in spite of the fact that replacements would be hired who would also be accruing benefits. For employee security then, it would be optimal to build a fund over the years to at least the level of the present value of the vested benefits.

Advance funding will eventually provide the funds to cover the present value of vested benefits and will also more appropriately relate the costs of the System to each fiscal year. In addition, advance funding will have a stabilizing effect on the costs; once the transition period is over, the appropriation should be more nearly a level percentage of payroll.

In the interim, however, the necessary State appropriation can be expected to rise sharply for two reasons. First, the legislated percentage of the normal cost and amortization payment rises by 5% each year. Secondly, the increasing percentage will be applied each year to an ever increasing amount. Because only a percentage of the normal cost and amortization payment is being paid during the transition period, the unfunded accrued liability will grow each year due to the percentage which is not being paid in previous years.

SECTION IV

CONTRIBUTIONS

Based on the employee data and asset information furnished us and the actuarial assumptions shown in Section V, we have determined the normal cost and unfunded accrued liability as of July 1, 1979. The calculations are based on the plan provisions outlined in Exhibit D.

Normal Cost as of 7-1-79

\$ 42,359,000

% of Covered Payroll

6.473%

Unfunded Accrued Liability as of 7-1-79

\$1,531,356,000

If the State were presently on an advance funding basis of normal cost plus a 40 year amortization of the unfunded accrued liability, the contribution for fiscal year 1979-80 would be \$153,371,000. The appropriated amount on a terminal funding basis is somewhat less than half of that - \$70,319,000 - with \$73,783,000 as a budget estimate for fiscal year 1980-81, the final year of purely terminal funding.

The contribution shown in this report is not directly comparable to those projected in our previous report, or even the figures provided for cost estimates for PA 79-436. Changes have been made in two areas which are explained more fully in Section V following. Essentially, the cost method used for funding some ancillary benefits was changed from a term basis to a regular funding basis and the survivors and dependents benefits were added to the costs. Also several slight changes were made in the actuarial assumptions.

The gradual transition to advance funding is to begin with fiscal year 1981-82, starting with 35% of the normal cost plus a 40 year amortization of the unfunded liability and increasing 5% per year until 100% is reached in fiscal year 1994-95. The statute provides, however, that the terminal funding amount shall be appropriated if larger. Since the terminal funding contribution is already larger than the initial 35%, it will be several years before the advance funding transitional amounts become operative.

The following chart presents a projection of estimated normal costs, the estimated unfunded accrued liability and the estimated required contribution for the years of the transition period. Projections of this sort are difficult to do with any certainty. Economic factors, declining school enrollments, and inflation affect both the numbers of teachers and their annual salary increases.

For purposes of this projection we have assumed a "mature" population of teachers. That is, those terminating, dying, or retiring are replaced annually with new teachers such that on the average the same position on the salary scale is maintained. That is, each year all teachers receive a salary increase as assumed by our actuarial assumptions, but new teachers are hired at the low end of the salary scale to replace those leaving at the upper levels. Assuming our split salary scale of 5% per year for those teachers still within the step rate ladder and 2 1/2% per year for those at their maximum produces an overall increase in covered salaries of 4.2% per year.

The estimated unfunded accrued liability grows each year with interest plus the addition of the normal cost plus interest and is reduced by the estimated contribution.

Estimated Projected Contributions

Fiscal Year Beginning	Estimated Normal Cost	Estimated Unfunded Accrued Liability	Contribution Basis	Estimated Required Contribution
7-1-79	\$42,359,000	\$1,531,356,000	Terminal Funding	\$ 70,319,000
7-1-80	44,138,000	1,605,687,000	Terminal Funding	73,783,000
7-1-81	45,992,000	1,683,281,000	35%	. 77,000,000*
7-1-82	47,924,000	1,764,676,000	40	80,000,000*
7-1-83	49,936,000	1,850,419,000	45	83,500,000*
7-1-84	52,034,000	1,940,378,000	50 `	96,295,000
7-1-85	54,219,000	2,025,624,000	55	110,519,000
7-1-86	56,496,000	2,104,514,000	60	125,368,000
7-1-87	58,869,000	2,176,108,000	65	140,748,000
7-1-88	61,342,000	2,239,503,000	70	156,555,000
7-1-89	63,918,000	2,293,845,000	75	172,677,000
7-1-90	66,603,000	2,338,341,000	80 .	188,992,000
7-1-91	69,400,000	2,372,273,000	85	205,375,000
7-1-92	72,315,000	2,395,007,000	90	221,697,000
7-1-93	75,352,000	2,406,001,000	95	237,824,000

^{*}Estimate of terminal funding basis, since % of advance funding is less.

SECTION V

ACTUARIAL COST METHODS AND ASSUMPTIONS

A. Actuarial Cost Methods

1. Pre-retirement Death Benefits and Medical Benefits

The actuarial cost method used for determining pre-retirement death benefit and medical benefit costs is the one year term cost method.

2. Retirement: Benefits

The actuarial method used to develop the other results in this valuation report (including disability benefits and return of contributions upon death or non-vested termination) is the Frozen Initial Liability Cost Method. The essential elements of this method are explained below.

Unfunded Frozen Initial Liability

The Unfunded Frozen Initial Liability may be thought of as the present value of future contributions to be made for costs allocated to the past. We have also referred to this liability as the "Unfunded Past Service Liability".

In the first year of its use, the Unfunded Frozen Initial Liability is set equal to the accrued liability in accordance with the Entry Age Normal Cost Method less the Adjusted Asset Value on that date.

In subsequent years, the Unfunded Frozen Initial Liability at the end of a year is determined by adding to the beginning of the year value the beginning of the year Normal Cost, interest (at the valuation assumption rate) on that sum for the year, all reduced by the contributions made including interest, if any, to the end of the year. In the event of a change of plan or of assumptions, an appropriate adjustment is made.

Normal Cost

To calculate the Normal Cost it is first necessary to calculate the total current cost of all estimated benefits. (This is labeled "Present Value of Future Pension Benefits" in the Actuarial Balance Sheet and is itemized for active, retired, and terminated vested employees and survivors and dependents.) This is then reduced by the Unfunded Frozen Initial Liability, the Adjusted Asset Value and the Present Value of Future Employee Contributions. The result is the amount which is to be funded by future State Normal Costs ("Present Value of Future State Normal Cost Contribution" in the Actuarial Balance Sheet) and is therefore spread over the expected future service of all eligible active employees to determine the State Normal Cost as a level percentage of expected future payroll.

Gains and Losses

In the Frozen Initial Liability Cost Method, all gains and losses (the financial effect of the difference between the actual experience of a prior year and the result expected by the actuarial assumptions for that prior year) appear in the Present Value of Future Normal Costs and are thus spread over future Normal Costs.

B. Actuarial Assumptions

Investment Return:

6 1/2% compounded annually.

Mortality:

1971 Group Annuity Mortality Table. For females, ages are set back 6 years.

Employee Turnover:

The following termination rates are assumed:

Age	Male	<u>Female</u>
25	10.0%	15.0%
30	7.5	10.0
35	5.0	7.5
40	3.0	5.0
45	1.5	2.5
50	0	0

Proportionate rates apply to intermediate ages.

Expense Loading:

No loading for expenses has been included; all administrative expenses are assumed paid separately; investment expenses are taken into account in the determination of investment return.

Retirement Age:

Determined according to Retirement Age Group based on entry age (defined as attained age less service).

Retirement Age Group	Entry Age	Retirement Age
. 1	Less than 25	Entry age plus 35 years.
2	25 but less than 40.	Age 60.
3	40 but less than 61.	Entry age plus 20 years, maximum age 70.
4	61 or greater.	Excluded from costs.

Salary Scale:

Based on entry age (defined as attained age less service).

Entry Age

Salary

Less than 25

5% through age 39 and then 2 1/2% from age 40 through age 59.

25 but less than 40

5% through age 45 and then 2 1/2% from age 46 through age 59.

40 but less than 61

5% through age 57 and then 2 1/2% from age 58 through age 64.

Asset Valuation:

Market value of assets are adjusted to recognize 25% of accumulated unrealized gains (or losses).

Cost of Living:

Active: 3% per year compounded annually.

Retired: 5% per year compounded annually.

Disability:

Incidence:

1952 Intercompany Disability Study, period 2, Benefit

Mortality:

Same as non-disabled.

C. Choice of Actuarial Assumptions

We have made a change in two of the actuarial assumptions from those used in our last report. Changes were made in the cost of living assumption and in the rate of disability. These are the last two items shown below. All other actuarial assumptions remain the same as those used to develop figures for the July 1, 1976 actuarial report.

Since the entire plan is to be funded with Normal Cost contributions to be made annually, we have used "best estimate" assumptions rather than the conservative estimates used in the past to determine the experience gain or loss under the terminal funding. A combination of "best estimate" assumptions has been incorporated in this valuation. Comments on the various items shown the Section V B follows:

Investment Return: The expected investment income reflects the current bond and equity markets. It includes both realized and unrealized annual appreciation. The substantial size of the teachers' fund allows great diversity of investments and need not be as conservatively invested as a small fund. A 6 1/2% per year return can be expected over the long term.

Mortality: The longer people live, the longer their retirement benefits are payable. For this reason a "conservative" mortality table for annuities expects lives to live longer. We have used the newest published standard mortality table, which reflects the fact that annuitant mortality has decreased.

Employee Turnover: The withdrawal table we have chosen assumes a moderate rate of turnover at each age but drops off quickly to reflect the fact that Teachers' are vested in their Accrued Benefits after 10 years of service.

Expense Loading: Annual Treasurer's Reports and reports of the Teachers' Retirement Board indicate no administrative expenses have been withdrawn from the Funds. We expect this practice to continue.

Retirement Age: Since the retirement eligibility rules are a function of service as well as age, the data was broken down into four groups depending on age at hire. Those Teachers' in the first group were hired at young ages and are eligible to retire under age 60. Likewise, the next two Retirement Age Groups reflect the age when the teachers would first be eligible to retire. The retirement age used then is the first age at which the employee fulfills the earlier of:

35 years of service or,

b) the later of age 60 or 20 years of service, maximum age 70.

This grouping was important because of the salary scale assumption below.

Salary Scale: We chose a salary scale that reflects the 15 year step-rate salary schedules in use by Connecticut cities and towns. The two part scale reflects the 15 year step-rate increases as well as inflation in the first 5% portion. Only inflation is recognized in the later 2 1/2% part. We therefore have used the average entry age for each Retirement Age Group to find the average age at which we can expect annual salary increases to decline because the individuals have reached the salary maximums. The use of the Retirement Age Groupings allows us to recognize length of service.

The overall effect of this type of salary scale is to lower Normal Cost and increase the Past Service Liabilities since, as a percentage of salary, the first 15 years are given more weight. This also allows the greatest flexibility in funding because of the large size of the Unfunded Past Service Liability (see Section IV).

Asset Valuation: Since market values fluctuate rapidly, the use of these values alone is not reasonable for long range financial planning. On the other hand, some recognition should be made of unrealized appreciation or depreciation on Fund values. The method chosen reflects a portion of the market fluctuations yet produces reasonably smooth results. Exhibit B shows the development of the adjusted value.

Cost of Living: We expect the Consumer Price Index to increase at least 5% over the short range future and therefore have used 5% for the present group of retired lives. The 5% reflects the maximum allowed per year. However, for the long term, we feel 3% per year is more appropriate and have used 3% for the active lives. Our last report used 5% for all Cost of Living liabilities.

In the past year the Connecticut Teachers System was chosen to be included in a study considering the effects of universal Social Security coverage. For the study plans integrated with Social Security were designed and costed. A specific inflation percentage was chosen to project wage base increases as well as cost of living. To be more consistent with those figures, we have chosen to use a 3% cost of living index for valuing this liability.

Disability: This table of the incidence of disability is a commonly used one which reflects a relatively modest incidence of disability. Since we expect that a large proportion of disabilities among teachers would not be of the type which would affect their life expectancy, we have used the same mortality as for non-disabled lives. The rate of disability used in the last valuation seemed too high, at least for the near future.

SECTION VI

CERTIFICATION

The results in this valuation report are based on the law in effect as of June 30, 1979, the census of retired, active terminated vested, and survivors' and dependents' data received from the State Teachers' Retirement Board, and the information on assets received from the Board and the Treasurer's department. Neither the census data nor the financial information has been audited by us.

In my opinion this report presents fairly the financial and actuarial position of Connecticut Teachers' Retirement System as of July 1, 1979 in accordance with generally accepted actuarial principles.

HOOKER & HOLCOMBE, INC.

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Sherrie B: Desmond, F.S.A.

January 25, 1980

EXHIBIT A SUMMARY OF DATA AS OF JUNE 30, 1979

ACTIVE TEACHERS

	<u>Male</u>	Female	<u>Total</u>
Number	16,341	25,246	41,587
Service as of 6-30-79			
Average Connecticut Average Other	11.2 yrs.	9.7 yrs. 2	11.0 yrs.
Average Total	13.4	9.9	11.2
Average Salary as of 6-30-79	\$17,527	\$14,578	\$15,737

TERMINATED VESTED TEACHERS

••	Male	Female	Total
Number Average Service Average Salary Estimated benefit	217	485	702
	15.7	13.8	14.4
	\$15,561	\$12,911	\$13,761
	406 mo.	300 mo.	336 mo.

SURVIVORS AND DEPENDENTS

• .	. •	Average
	Number	Monthly Benefit
Widows Widowers Children Dependent Parents Mothers	235 35 254* 3 1	\$300 300 140 300 300
	527	

^{*}Including 5 disabled children

"Including cost-of-living and legislative increases to 6-30-79.

RETIRED TEACHERS

Averge amounts of Retirement Income for new retirees.

Average Retirement

	Average	
Year	Salary Base	Allowance
1972-73	\$13,206	\$7,325
1973-74	14,043	7,529
1974-75	14,684	7,577
1975-76	15,843	7, 987
1976-77	15,754	8,126
1977-78	17,198	8,513
1978-79	17,927	8,510

Average age at retirement:

•	Average
Year	Retirement Age
1971-72	63.0
1972-73	62.7
1973-74	62.8
1974-75	62.5
1975–76	60.5
1976-77	61.7
1977-78	61.5
1978-79	61.6

EXHIBIT B

DEVELOPMENT OF ADJUSTED ASSET VALUE

AS OF JUNE 30, 1979

A. Development of Adjustment Ratio

Book Value	\$1,031,227,262
Market Value	946,928,119
Difference	(84,299,143)
Adjusted Value = Market Value less 75% Difference	1,010,152,476

EXHIBIT C

DEVELOPMENT OF NORMAL COST

The development of the Normal Cost as of July 1, 1979 flows from the actuarial balance sheet item labled "Present Value of Future State Normal Cost Contributions" in the following manner:

Present Value of Future State Normal Cost Contributions	\$ 408,797,000
divided by Present Value of Future Salaries of presently active teachers	6,314,779,000
Normal Cost as a percentage of Covered Payroll.	6.473%
times Covered Payroll	\$ 654,398,000
Total State Normal Cost	\$ 42,359,000

Note: Even though we term costed pre-retirement death benefits and medical benefits, we developed a Present Value of Future Term Costs for these benefits which is included in the Present Value of State Normal Cost Contributions, so that the term cost flows through the development and need not be added in separately at the end.

EXHIBIT D

OUTLINE OF PRINCIPAL PROVISIONS

Item

Covered Employees:

Salary:

Average Annual Salary:

Credited Service:

Normal Retirement:

Eligibility:

Benefit:

Early Retirement:

Eligibility:

Benefit:

Description

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

Amount paid to a teacher as specified in a contract of employment excluding amounts paid for extra duty assignments, coaching, unused sick time, unused vacation or terminal pay.

Average annual salary received during three years of highest salary.

One month for each month of service as a teacher in Connecticut public schools, maximum 10 months for each school year. Certain other types of teaching service, State employment, or war-time military service may be purchased if the member pays contributions (5% of first Connecticut salary for each year) plus interest.

Age 60 and 20 years of service in Connecticut or 35 years of service including at least 25 years of service in Connecticut.

2% times years of credited service times average annual salary (maximum percentage is 75%)

plus

any additional amounts derived from 6th% and voluntary contribution by the teacher.

At any age after the completion of 25 years of service including 20 years of Connecticut service (the last 5 years in Connecticut).

Actuarially reduced normal retirement benefit.

Item

Description

Pro-ratable Retirement:

Eligibility:

Benefit:

Disability Retirement:

Eligibility:

Benefit:

Termination of Employment:

With less than 5 years:

With 5 years but less than 10 years:

With 10 or more years:

Age 60 and 10 years of service (the last 5 years in Connecticut).

2% less .1% for each year less than 20 years times years of Connecticut service plus 1% times years of other service times average salary.

Disability prior to age 60 and after 10 years of service in Connecticut if not incurred in performance of duty and without regard to service if incurred in performance of duty.

3% times credited service to date of disability times average annual salary, maximum 1 2/3% times credited service projected to 60 times average annual salary.

Return of 5% contribution with interest.

Return of 5% contributions with interest and 1% contributions without interest.

100% vested. Members may elect return of all contributions with interest in lieu vested benefit.

Item

Description

Pre-retirement Death Benefits:

Lump Sum:

\$1,000 for the first 5 years of Connecticut service plus \$200 per year for each year of service from 6 to 10 years of service. Maximum benefit: \$2,000.

Survivor's Benefit:

\$200 per month to a single dependent child under age 18 or over age 18 if disabled. \$300 per month divided equally among 2 or more such children in a family.

\$300 per month to a surviving spouse or dependent former spouse receiving child support.

\$300 per month to a dependent parent over age 65 if there is no surviving spouse.

Form of Annuity:

Normal:

Partial Refund Option: 75% of total benefit is paid as a life annuity. If 25% of benefits paid prior to death, do not exceed 5% contributions plus interest, the difference is paid to beneficiary.

Optional Forms:

5, 10, 15, 20, or 25 year certain and life. 25%, 50%, 66 2/3%, 75%, or 100% co-participant.

Cost of Living Allowance:

Pension benefit adjustments are made in accordance with increases and decreases in the consumer price index, but not in excess of 5% per annum.

Teachers' Required Assessments:

Each teacher is assessed 6% of annual salary, of which 5% was formerly allocated to the Annuity Fund and 1% to the Survivorship and Dependency Fund.

Medical Benefits:

The System pays 10% of the cost of group health insurance if the employee elects to have premiums withheld from pension checks.

EXHIBIT E

ADDITIONAL DISTRIBUTIONS OF ACTIVE DATA

-CONNECTICUT TEACHERS! RETIREMENT SYSTEM

GROUPING BY ATTAINED AGE AND SERVICE AS OF 7/ 1/79 HALES

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GROUPING BY ENTRY AGE AND SERVICE AS OF 7/ 1/79 HALES

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CONNECTICUT TEACHERS' RETIREMENT SYSTEM SUMBMARY_OF DATA BY YEAR OF BIRTH - FEMALE

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_ SUMMARY OF DATA BY YEAR OF TOTAL SERVICE - MALE

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-- CONNECTICUT TEACHERS' RETIREMENT SYSTEM SUMMARY OF DATA BY YEAR OF TOTAL SERVICE - FEMALE

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