> 7671 Post-It" Fax Note

> > a carrier of the

ANALYSIS OF RESULTS

- System membership has grown 4% over last year. The total membership is 84,208 versus 80,907 last year. Of the 3,301 additional participants, 1,351 are represented by new Tier II Hazardous Duty members.
- Total annual compensation is up 9.3% over last year largely due to the additional new members. Average compensation on a total group basis grew from \$40,295 last year to \$42,115 this year (4.5% growth). The growth rate in average compensation was the largest for Tier I Plan B (5.6%) and Tier II All Others (6.7%). The two hazardous duty groups had the lowest growth in average compensation (2.8%).
- Asset performance was favorable for FY94-95. On a market value basis, the performance was about 13%. On a smoothed basis, before recognition of the Memorandum of Agreement, the approximate rate of return was 8.4%. The new asset smoothing method in the Memorandum of Agreement adds \$415,486,706 to the Actuarial Value of Assets, so that the actuarial value equals the market value. In the absence of this agreement, there would be a small asset loss of \$3,254,255.
- There is an accrued contribution for FY94-95 of \$60,972,796, which represents the difference between the contribution actually received of \$290,801,000 and the certified contribution of \$351,773,796.
- Normal cost percentages for all groups show no surprises. The average normal cost percentage is 8.43%, down slightly from 8.47% last year. The normal cost for FY96-97 is \$217 million.
- Total System Liabilities are now at \$7,755 billion compared to \$7.329 billion last year. \$250 million of the \$426 million change is due to a growth in active liability, the remaining \$176 million is represented by the inactive members.
- The reconciliation of the unfunded liability yields an asset loss of \$3.3 million and a liability gain of \$57.3 million. We will provide a breakdown of the liability gain by source at our meeting on Wednesday.
- The Employer contribution before reflecting the SEBAC agreement is \$493 million. Because SEBAC limits the past service cost to \$152 million, the contribution after SEBAC is \$369 million.

THE STATE OF

N.

I

1

PRELIMINARY 1995 VALUATION RESULTS CONNECTICUT STATE EMPLOYEES RETIREMENT SYSTEM

Table of Contents

[,	Reconciliation of Members	1
II.	Summary of Active Membership Data	3
III.	Summary of Retired Membership Data	4
IV.	Development of Actuarial Value of Assets	5
	Development of Asset Gain/Loss	
VI.	Normal Cost Percentages	8
	System Liabilities	
VIII.	Reconciliation of Unfunded Actuarial Liability	10
IX.	System Contributions	11
X.	Summary of Assumptions	13

THE STATE OF THE S

PRELIMINARY 1995 VALUATION RESULTS CONNECTICUT STATE EMPLOYEES RETIREMENT SYSTEM

I. Reconciliation of Members

	Active Members	Deferred Vested Members	Retired Members	Total
	V		ų.	8
Total Members as of July 1, 1994	53,502	654	26,751	80,907
	(32)	32	0	0
New Terminated Vested	(1,098)	(54)	1,152	0
New Retired	(120)	0	120	0
New Disabled Other Withdrawal	(3,002)	. 0	0	(3,002)
Died (no Beneficiary)	0	0	(925)	(925)
Died (with beneficiary)	(1)	0	í	, 0
2302 (Mar 03112111111)		2 5		
Rehired from Inactive Status	18	(15)	(3)	0
New Active Members	6,705	0	Ó	6,705
(104, 17974.6 1171110010				
*Other	0	49	474	523
Total Members as of July 1, 1995	55,972	666	27,570	84,208
,			e -e	
			Se)	
* Includes:			•)	

corrections.

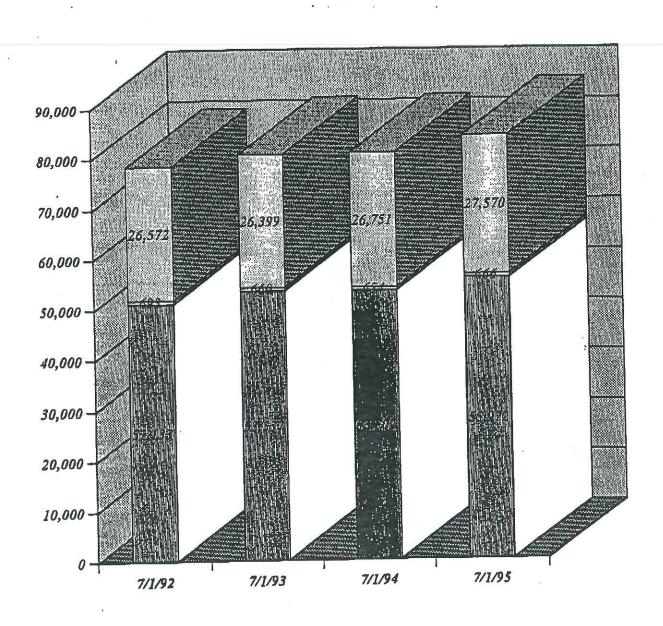
1

3

(A)

PRELIMINARY 1995 VALUATION RESULTS CONNECTICUT STATE EMPLOYEES RETIREMENT SYSTEM

System Members



□ Actives □ Term Vested

Retired

II. Summary of Active Membership Data

	7/1/94	7/1/95	Percent Change
Number of Members			
Tier I Hazardous Duty	1,967	1,890	- 3.9%
Tier I Plan B	17,806	17,103	- 3.9%
Tier I Plan C	1,387	1,249	- 9.9%
Tier II Hazardous Duty	5,855	7,206	+23.1%
Tier II Others	26,487	<u>28,524</u>	+ 7.7%
Total	53,502	55,972	+ 4.6%
Total Annual Compensation (Millions)			
Tier I Hazardous Duty	108.5	107.3	- 1.1%
Tier I Plan B	877.6	890.5	+ 1.5%
Tier I Plan C	60.7	57.2	- 5.8%
Tier II Hazardous Duty	239.6	303.1	+26.5%
Tier II Others	869.4	999.2	+14.9%
Total	2,155.9	2,357.3	+ 9.3%
Average Compensation		ā	
Tier I Hazardous Duty	55,178	56,759	+ 2.9%
Tier I Plan B	49,288	52,066	:' + 5.6%
Tier I Plan C	43,728	45,775	+ 4.7%
Tier II Hazardous Duty	40,930	42,064	+ 2.8%
Tier II Others	32,824	35,030	+ 6.7%
Total	40,295	42,115	+ 4.5%
Average Age		0 (46)	
The Liverage District	43.5	44.0	+ 1.1%
Tier I Hazardous Duty	47.1	47.6	+ 1.1%
Tier I Plan B Tier I Plan C	52.6	52.2	- 0.8%
Tier II Hazardous Duty	34.7	35.3	+ 1.7%
Tier II Others	39,5	40.0	+ 1.39
Total	42.0	42.1	+ 0.29
Average Service	11	18	
Tier I Hazardous Duty	16.0	16,1	+ 0.6%
Tier I Hazardous Duty Tier I Plan B	18.0	18.4	+ 2.29
Tier I Plan C	18.3	18.7	+ 2.29
Tier I Flan C Tier II Hazardous Duty	3.9	3.9	0.09
Tier II Others	5.8	6.1	+ 5.29
Total	10.4	10.3	- 1.09

III. Summary of Retired Membership Data

, :	7/1/94	7/1/95	Percent Change
Retirces		*	
Number Total Annual Benefit (000s) Average Annual Benefit	26,751 \$ 373,08 7 14,359	27,570 \$395,879 14,359	+3.1% 6.1% 0.0%
Terminated Vested			, /
Number	654	666	+1.8%

IV. Development of Actuarial Value of Assets

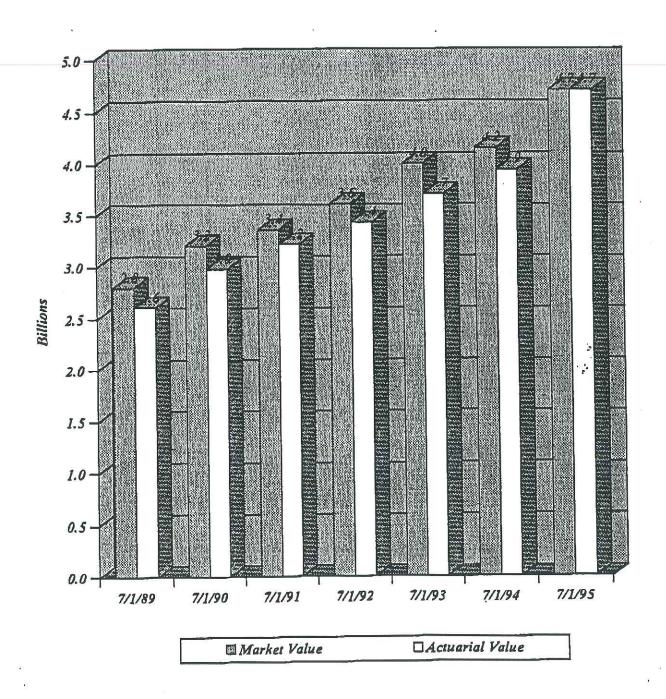
Plan	Year Ending	Realized Gain/Losses	Change in Unrealized Gain/Losses	Total Gains/Losses
(120	in 5	\$4,672,238	\$346,880,314	\$351,552,552
6/30 6/30		10,676,524	620,866	\$11,297,390
6/30		24,188,054	236,815,252	\$261,003,306
6/30		42,882,763	72,441,760	115,324,523
The	Actuarial Value of Assets as of June 30, 1995 is det	rived as follows:	â	
(1)	Market Value of Assets as of June 30, 1995			\$4,624,722,528
(2)	Five-Year Gains and Losses Not Yet Recognized			
	80% of FY 95		281,242,041	W
	60% of FY 94		6,778,434	
ļ	40% of FY 93		104,401,322	
	20% of FY 92		<u>23,064,905</u>	4,13,486,702
(3)	20% of (1)			924,944,506
(4)	Preliminary Actuarial Value of Assets as of June	30, 1995:	a	4,209,235,826
	(1) - (2), within (1) +/- (3) Effect of Memorandum of Agreement			415,486,702
(5)	Revised Actuarial Value of Assets as of June 30,	1995		4,624,722,528
(6)		4//4		
17	(4) + (5) Accrued Contribution for FY94-95			60,972,796
(8)	Actuarial Value of Assets as of June 30, 1995			\$4,685,695,324
	(6) + (7)			

Development of Asset Gain/Loss V.

		Market Value of Assets	Actuarial Value of Assets
(1)	Value of Assets as of July 1, 1994	\$4,150,379,946	\$3,944,521,448
(2)	Contributions (Employer & Employee)	326,323,628	326,323,628
	Benefit Payments and Refunds during FY94-95	391,150,922	391,150,922
(4)	Expected Investment Income at 8 1/2% on (1) through (3)	350,293,899	332,795,927
(5)	Actual Investment Income	539,169,876	329,541,672
(6)	Expected Value of Assets as of June 30, 1995: (1) + (2) - (3) + (4)	4,435,846,551	4,212,490,081
(7)	Actual Value of Assets as of June 30, 1995: (1) + (2) - (3) + (5)	4,624,722,528	4,209,235,826
(8)	Assets Gain/(Loss): (7) - (6)	188,875,977	(3,254,255
(9)	Effect of Memorandum of Agreement	0	415,486,70
(10)	Final Assets as of June 30, 1995; (7) + (9)	4,624,722,528	4,624,722,52
(11)	Accrued Contribution for FY94-95	60,972,796	60,972,79
(12)	Value of Assets as of June 30, 1995 including Accrued Contribution: (10) + (11)	4,685,695,324	4,685,695,32
(13)	Approximate Effective Yield Represented by Actual Investment Income	13.09%	8.429

plan's invested assets.

System Assets



MILLIMAN & ROBERTSON, INC.

VI. Normal Cost Percentages

Hazardous Duty 18 8737% 17.9397% 18.3565% 22.6277% 16.5805% 16.9794 10.0536 10.6310% 10.4280% 10.4638% 9.5261% 9.4761% 9.4761% 9.4761% 9.4512% 9.4519% 9.5457 9.4518% 9.5457 9.4518% 9.5457 9.4518% 9.5457 9.4518% 9.5457 9.4518% 9.5457 9.4518% 9.5457 9.5457 9.4518% 9.5457 9.4518% 9.5457 9.5457 9.5457 9.5457 9.5457 9.54572% 9.4518% 9.45		1990	1991	1992	1993	1994	1995
us Duty 18.8737% 17.9397% 18.3565% 22.6277% 16.5805% 1.0.4638% 10.4638% 9.5261% 9.5261% 9.4761% 9.8117% 1.0.448% 9.9627% 9.5261% 9.4761% 9.6759% 9.6759% 10.2468% 10.9393% 18.2802% 5.1865% 5.1892% 5.6637% 8.8303% 8.9634% 9.4519% 8.4672% 8.4672%	Yer I					,	
Nus Dufy 12.2340% 10.2468% 10.9393% 18.2802% 5.7485% 5.1892% 5.6637% 5.5835% 5.7485% 5.1802% 8.8303% 8.9634% 9.4519% 8.4672%	Hazardous Duty Plan B Plan C	18.8737% 10.6310% 7.6448%	17.93 <i>97%</i> 10.4280% 9.9627%	18.3565% 10.4638% 9.5261%	22.6277% 9.5823% 9.4761%	16.5805% 9.8117% 9.6759%	16.9794% 10.0536% 9.4632%
12.2340% 10.2468% 10.9393% 18.2802% 9.4258% 5.1166% 5.1892% 5.6637% 5.5835% 5.7485% 9.1602% 8.8303% 8.9634% 9.4519% 8.4672%	Ter II						
9.1602% 8.8303% 8.9634% 9.4519% 8.4672%	Hazardous Duty All Others	12.2340% 5.1166%	10.2468% 5.1892%	5.6637%	18.2802%	9.4258% 5.7485%	9.5497% 5.9098%
	Total	9.1602%	8.8303%	8.9634%	9.4519%	8.4672% .	8.4282%

Page 8

MILLIMAN & ROBERTSON, INC.

VII. System Liabilities

		1,994	1995
(1)	Liability for Active Members		
	(a) Tier I Hazardous Duty	\$ 407,704,392	\$ 408,591,196
	(b) Tier I Plan B	2,096,007,655	2,204,566,084
	(c) Tier I Plan C	170,016,203	162,601,712
	(d) Tier II Hazardous Duty	196,238,302	256,743,600
	(e) Tier II All Others	380,635.824	468,751,427
	(f) Total Liability for Active Members	3,250,602,376	3,501,254,019
(2)	Liability for Deferred Vested Members	32,951,832	40,208,864
(3)	Liability for Retired Members	4,045,626,976	4,213,855,290
(4)	Total System Liability	7,329,181,184	7,755,318,173

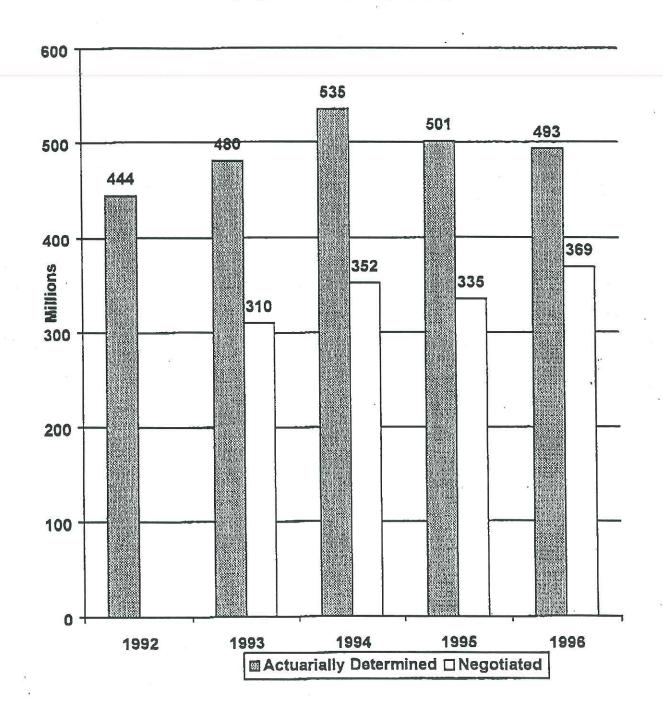
VIII. Reconciliation of Unfunded Actuarial Liability

Unfunded Actuarial Liability 7/1/94	\$3,384,659,736
Interest on beginning UAL	287,696,078 221,273,796
Employer Normal Cost for FY94-95	8,493,595
 Interest on Employer Normal Cost FY 94-95 Employer Contribution actually made 	(290,801,000) (60,972,796)
 Accrued Contribution for FY94-95 Interest on Employer contribution for FY94-95 	(11,162,396)
Asset (gain)/loss	3,254,255 (415,486,702)
 Effect of Memorandum of Agreement Liability (gain)/loss (balancing item) 	(57,331,717)
Actual Unfunded Actuarial Liability 7/1/95	\$3,069,622,849

System Contributions IX.

٢				
	(1)	Total System Liability	\$7,755,318,173	
	(2)	Actuarial Value of Assets	4,685,695,324	
	(3)	Unfunded Actuarial Liability as of July 1, 1995	3,069,622,849	
	(4)	Projected Unfunded Actuarial Liability as of June 30, 1996	3,186,828,307	
	(5)	Past Service Cost	275,475,813	
	(6)	Employer Normal Cost	217,073,029	4
	(7)	Total System Contribution (before SEBAC)	492,548,842	
	(8)	Past Service Cost per SEBAC	152,000,000	
	(9)	Total System Contribution (after SEBAC)	369,073,029	
	(10)	Impact of SEBAC	123,475,813	
			ű	

Employer Contribution (Dollars)



X. Summary of Assumptions

Interest Rate		8 1/2%	34 2			
Salary Scale		Varies by s	service as fo	llows:		
			Y	ears		Rate
				0	89	14.00
				1		12.00
				2		10,00
				3		9,00
				4		8,20
				5		7,50
				10		5.45
				15		4.45
				20		3.75
				25		3,25
Mortality		1983 Group Annuitant Mortality Male and Female Tables.			male	
Turnover		Three year select and ultimate rates as sh non-hazardous duty males; the same tabl increased by a factor of 10% for females by a factor of 60% for hazardous duty en			me table wit emales and o	h rates lecreased
			Year	s of Particir	ation	
	Ī	Age		1	2	3+
		20	<u>0</u> 30	30	20	10
	1	25	17	15	10	8
		30	15	11	8	5
		35	13	10	8	8 5 3 3 2
	1	40	10	9 .	7	3
· ·	1	45	3	8	6	2
	1	50	3	6	4	2
	1	55	2	4	2	0
	2	60	0	0	0	0
Retirement		One ye	ear select ar	nd ultimate on-hazardou	rates separat is duty empl	ely for oyees.
			Haza	rdous	Non-Ha	zardous
		Age	-			1000 100
		47	<u>0</u> 40	<u>1+</u> 30	<u>0</u>	0
	,	50	40	30	0	1+ 0 0 0
χ.	70	55	60	30	20	0
*	7	60	80	50	20	15
		62	100	100	40	40
		65	100	100	80	60
		70	100	100	100	100

Disability	The current table of rates increased by a factor of 1.2 for hazardous duty employees and decreased by a factor of .5 for non-hazardous duty employees.				
,	Age	Hazardous Duty	All Others		
	20	.90	.38		
5 9 E	25	1.02	.43		
\ \	30	1.16	.49		
	35	1.45	.61		
	40	2.04	,85		
5	45	3.35	1.40		
α	50	6.11	2.55		
	55	11.10	4.63		
	60	17.30	7.21		
Disabled Monality	50% of 1965 Railroad Retirement Board Disabled Mortality Table.				