ACTUARIAL VALUATION

South Carolina Retirement System (SCRS)

As of July 1, 1997



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March 20, 1998

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Gentlemen:

This report constitutes the July 1, 1997 actuarial valuation for the South Carolina Retirement System (SCRS). The report includes this commentary and a series of actuarial tables and summaries of the plan provisions and methods and assumptions.

Basic Contribution Requirements

Our valuation finds the SCRS in excellent actuarial condition. The current plan benefits, including the COLA of 1.5% that may be granted as of July 1, 1998, are adequately funded by the current contribution levels which consist of employee contributions of 6% and employer contributions of 7.55% for State employees including teachers and 6.7% for other employers.

The employer contribution rates are also reasonably split between 5.0% for normal cost contributions and the remainder for amortization of the unfunded liability. With these amortization payments, the current unfunded liability will be eliminated in 14 years. Based on the previous actuarial valuation, the unfunded liability was expected to be eliminated in 19 years.

We have also determined that the Group Life Insurance employer contribution of 0.15% is reasonable and will adequately fund the expected benefit payments. The separate fund for this benefit has built sufficient reserves.

Valuation Data

This valuation was based on approximately 185,600 active members with a payroll of \$4.9 billion. This represents an increase in the number of active members of about 4% and an increase of 8.5% in covered payroll since the previous year's valuation. The increases were greater among the "other" employee category and less among State employees.



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The number of people receiving benefits increased since the last valuation by 4%. The annual benefits being paid increased by about 12%. This takes into account the 4% COLA that was effective July 1, 1997.

Valuation Assets

The market value of the SCRS assets as of July 1, 1997 was \$14.4 billion. The comparable figure one year before was \$13.2 billion. The rate of investment return on assets for the 1996/97 year was 9.3%.

For purposes of the actuarial valuation, we are using an actuarial value of assets that phases-in investment return different than the assumed 7.25% rate over a 5-year period. This actuarial value as of July 1, 1997 was \$13.6 billion as compared to \$12.5 billion the previous year.

Unfunded Liability and Experience Factors

After recognizing the actuarial value of assets, the unfunded liability as of July 1, 1997 was \$1.36 billion. There was a decrease in unfunded liability of \$207 million. The factors causing the decrease (in millions) are:

Required amortization payment	\$ (4.0)
Asset experience	(198.0)
Salary experience	(71.0)
Other experience	(21.0)
COLA effective July 1, 1998	87.0
Net change	\$(207.0)

Governmental Accounting Standards Board (GASB) Calculations

Our report includes information that is required by GASB. Basically, the calculations indicate that the System's funded ratio has increased since the previous valuation. As of the last valuation the funded ratio was 88.9%. This has improved to 90.9%. In addition, the unfunded liability as a percentage of covered payroll has decreased from 34.4% to 27.5%. Both of these statistics indicate that the funded status of the System has improved.



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Changes in System Benefits and Actuarial Assumptions and Methods

This actuarial valuation reflects the current provisions of the System as outlined on Table X. The provisions have remained the same since the last actuarial valuation. However, our report does contain provisions for a 1.5% COLA to be granted effective July 1, 1998.

The actuarial assumptions and methods are outlined on Table IX. These assumptions and methods have remained as employed in the July 1, 1996 actuarial report.

Census Data and System Assets

The Retirement System office provided the census data that was used for this valuation. The System assets that were used for this valuation were supplied in the June 30, 1997 Retirement System Comprehensive Annual Financial Report.

Conclusions

In our opinion, the information contained in this actuarial report fairly represents the actuarial condition of the South Carolina Retirement System.

We look forward to review this report with the State Budget and Control Board and the Director of the Retirement System.

Sincerely,

Wallace W. Wilson, F.S.A.

Consulting Actuary

Bonnie B. Seals, F.S.A.

Actuary

Donald A. DuLaney, Jr., A.S.A.

Actuary

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Table I

Summary of Actuarial Valuation Results

1.	Number of Active Members and Compensation	ī	uly 1, 1997	<u>]</u>	uly 1, 1996
	a. State Employeesb. Compensation	\$	65,695 1,890,977	\$	64,598 1,802,400
	c. Teachers d. Compensation	\$	78,345 2,064,157	\$	75,016 1,878,400
	e. Others f. Compensation	\$	41,557 971,990	\$	38,926 859,300
	g. Total number of active membersh. Total compensation	\$	185,597 4,927,124	\$	178,540 4,540,100
2.	Number of Persons Receiving Benefits and Benefits				
	a. Total number receiving benefitsb. Total amount of benefits	\$	56,127 643,804		53,872 576,531
3.	Trust Fund Assets				
	a. Market value b. Actuarial value		14,413,956 13,621,362		13,201,433 12,499,235
4.	Unfunded Actuarial Accrued Liability (UAAL)	\$	1,355,817	\$	1,562,857
5.	Remaining Liquidation Period (Years)		14		19
6.	Required Contribution as a Percent of Compensation				
	 a. State Employees and Teachers i) Normal cost contribution ii) UAAL contribution iii) Pre-retirement death contribution iv) Total 		5.00% 2.55% <u>0.15%</u> 7.70%		5.00% 2.55% <u>0.15%</u> 7.70%
	 b. Others i) Normal cost contribution ii) UAAL contribution iii) Pre-retirement death contribution iv) Total 		5.00% 1.70% <u>0.15%</u> 6.85%		5.00% 1.70% <u>0.15%</u> 6.85%

All dollar amounts in thousands



Table II

South Carolina Retirement System (SCRS)

Determination and Amortization of Unfunded Liability

1.	. Actuarial Present Value of Future Benefits								
	 a. Present retired members and beneficiaries b. Present active and inactive members c. Total Actuarial Present Value 	\$ 5,866,156 <u>14,523,476</u> \$ 20,389,632							
2.	Present Value of Future Normal Contributions								
	a. Employee at 6.00%b. Employer at 5.00%c. Total Future Normal Contributions	\$ 2,952,247 <u>2,460,206</u> \$ 5,412,453							
3.	Actuarial Accrued Liability = 1.c 2.c.	\$ 14,977,179							
4.	Current Actuarial Value of Assets	\$ 13,621,362							
5.	<u>Unfunded Actuarial Accrued Liability</u> = 3 4.	\$ 1,355,817							
6.	Unfunded Accrued Liability Rates	•							
	a. State Employees and Teachersb. Others	2.55% 1.70%							
7.	Unfunded Accrued Liability Liquidation Period	14 years							

All dollar amounts in thousands



Table III

South Carolina Retirement System (SCRS)

Development of Actuarial Value of Assets

1.	Actuarial Value of Assets on July 1, 1996	\$ 12,499,235				
2.	1996/1997 Net Cash Flowa. Contributionsb. Disbursementsc. Net Cash Flow	<u></u> \$	679,051 661,889 17,162			
3.	Expected Investment Return [1. x .0725] + [2.c. x .03625]	\$	906,817			
4.	Expected Actuarial Value of Assets on July 1, 1997 (1. + 2.c. + 3.)	\$ 13	3,423,214			
5.	Market Value of Assets on July 1, 1997	\$ 14	1,413,956			
6.	Excess of Market Value over Expected Actuarial Value (54.)	\$	990,742			
7.	20% Adjustment towards Market (.20 x 6.)	\$	198,148			
8.	Actuarial Value of Assets on July 1, 1997 (4. + 7.)	<u>\$ 13</u>	3 <u>,621,362</u>			

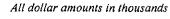




Table IV

Accounting Information

1. Number of Active and Retired Members as of July 1, 1997

Group	<u>Number</u>
Retiree and Beneficiaries Currently Receiving Benefits	56,127
Terminated Employees Entitled to Benefits But not yet Receiving Benefits	121,777
Active Members	185,597
Total	<u>363,501</u>

2. Schedule of Funding Progress

Actuarial Valuation <u>Date</u>	(a) Actuarial Value of Assets	(b) Actuarial Accrued Liability (AAL)	(c) Unfunded AAL (UAAL) (b-a)	(d) Funded Ratio (a / b)	(e) Covered <u>Payroll</u>	(f) UAAL as a Percentage of Covered Payroll (c/e)
07/01/97	\$ 13,621,362	\$ 14,977,179	\$ 1,355,817	90.9%	\$ 4,927,124	27.5%
07/01/96	12,499,235	14,062,092	1,562,857	88.9%	4,540,100	34.4%
07/01/95	11,453,462	12,980,497	1,527,035	88.2%	4,318,827	35.4%



Table IV (continued two)

3. Assumptions and Methods

Valuation date July 1, 1997

Actuarial cost method Entry-Age-Normal

Amortization method Level percent open

Remaining amortization period 14 years

Asset valuation method 5 year smoothed market

Actuarial assumptions

Investment rate of return* 7.25%

Projected salary increases 4.25% - 11.35%

*Including inflation at 4.25%

Cost-of -living adjustments None



Table V

Valuation Balance Sheet

1. Assets	July 1, 1997	<u>July 1, 1996</u>
 a. <u>Current Assets</u> i) Employee Annuity Savings Fund ii) Employer Annuity Accumulation Fund iii) Total Current Assets 	\$ 3,657,217 9,964,145 \$ 13,621,362	\$ 3,399,816 <u>9,099,419</u> \$ 12,499,235
b. Future Member Contributions to Employee Annuity Savings Fund	\$ 2,952,247	\$ 2,861,922
 c. Prospective Contributions to Employer Annuity Accumulation Fund i) Normal Contributions ii) Accrued Liability Contributions iii) Total Prospective Employer Contributions 	\$ 2,460,206	\$ 2,385,629 1,562,857 \$ 3,948,486
d. Total Assets	\$ 20,389,632	<u>\$ 19,309,643</u>
2. <u>Liabilities</u>		
 a. Employee Annuity Savings Fund i) Past Member Contributions ii) Future Member Contributions iii) Total Contributions to Employee Annuity Savings Fund 	\$ 3,657,217 2,952,247 \$ 6,609,464	\$ 3,399,816 2,861,922 \$ 6,261,738
 b. Employer Annuity Accumulation Fund i) Benefits Currently in Payment ii) Benefits to be Paid to Current Active Members iii) Total Benefits Payable from Employer Annuity Accumulation Fund 	\$ 5,866,156 7,914,012 \$ 13,780,168	\$ 5,349,968 7,697,937 \$ 13,047,905
c. <u>Total Liabilities</u>	\$ 20,389,632	\$ 19,309,643



Table VI
South Carolina Retirement System (SCRS)

Number and Annual Retirement Allowances of Benefit Recipients as of July 1, 1997

Service Retirement a. Employees	Number	Annual Retirement Allowances
Life Annuity 10 Year Certain and Life 100% J & S 100 % Pop-Up 50% J & S 50% Pop-Up Level Off	12,533 949 1,915 1,184 1,281 1,224 	\$ 116,707 10,196 27,046 15,023 24,629 22,476 44,819 \$ 260,896
b. <u>Teachers</u>		
Life Annuity 10 Year Certain and Life 100% J & S 100 % Pop-Up 50% J & S 50% Pop-Up Level Off	14,575 1,093 764 525 582 717 4,574 22,830	\$ 147,005 13,376 8,581 6,907 9,979 13,361 87,474 \$ 286,683
c. <u>Total</u>		
Life Annuity 10 Year Certain and Life 100% J & S 100 % Pop-Up 50% J & S 50% Pop-Up Level Off	27,108 2,042 2,679 1,709 1,863 1,941	\$ 263,712 23,572 35,627 21,930 34,608 35,837 132,293 \$ 547,579



Table VI (continued two)

2. Disability Retirement

a. Employees			
Life Annuity	2,876	\$	24,844
10 Year Certain and Life	217	•	1,851
100% J & S	462		3,161
100 % Pop-Up	174		1,243
50% J & S	173		1,873
50% Pop-Up	<u> 148</u>		1,586
· ·	4,050	\$	34,558
b. <u>Teachers</u>			
Life Annuity	2,121	\$	20,083
10 Year Certain and Life	130		1,323
100% J & S	175		1,192
100 % Pop-Up	52		424
50% J & S	63		701
50% Pop-Up	<u>61</u>	*****	869
	2,602	\$	24,592
c. <u>Total</u>			
Life Annuity	4,997	\$	44,927
10 Year Certain and Life	347		3,174
100% J & S	637		4,353
100 % Pop-Up	226		1,667
50% J & S	236		2,574
50% Pop-Up	209		2,455
	6,652	\$	59,150
. Beneficiaries of Deceased Retired Members and	Active Members		
a. Employees and Teachers	4,938	\$	37,075
Grand Total	56,127	<u>\$</u>	643,804

All dollar amounts in thousands

3.

4.



Table VII

Distribution of Active Members by Attained Age Groups and Service Groups as of July 1, 1997

Years of Service

80 & Up Total	75 – 79	70 – 74	65 - 69	60 - 64	55 - 59	50 - 54	45-49	40 - 44	35 - 39	30 - 34	25 - 29	20 - 24	Under 20	Attained Age Group
57 64,054	68	244	484	1,222	2,605	4,689	7,089	8,730	9,187	9,704	14,253	5,502	220	0 - 4
40,782	41	122	346	1,324	2,625	4,384	6,431	6,988	6,721	7,885	3,824	85	_	5-9
3 28,079	19	84	285	1,196	2,341	3,984	5,033	5,389	6,550	3,078	117			10- 14
20,474	19	55	208	1,036	2,113	3,497	4,365	6,127	2,967	84	,—·	•		15 – 19
3 17,752	12	52	178	1,159	2,345	3,493	6,435	3,887	185	•				20-24
<u>4</u> 11,246	6	25	147	949	1,848	4,427	3,666	174		•				25 – 29
2,711	7	16	70	358	973	1,194	93							<u>30 – 34</u>
393		7	31	154	181	20								<u>35 –39</u>
91	2	9	33	39	∞									40 -44
15	2	7	ယ	2	_					•				45 & Up
74 185,597	179	621	1,785	7,439	15,040	25,688	.33,112	31,295	25,610	20,751	18,195	5,587	221	Total

Average Attained Age
Average Hire Age
Average Pay
Percent Female

42.75 years 32.73 years \$26,545

68.3%



Table VIII

Distribution of Participants Receiving Benefits

1. Service Retirement

Current Age Group	<u>Number</u>	Total Annual Benefit	Average Annual Benefit
Under 50	97	\$ 818,520	\$ 8,438
50 - 54	898	20,912,328	23,288
55 – 59	2,632	63,930,348	24,290
60 - 64	6,116	89,538,864	14,640
65 – 69	10,146	119,973,408	11,825
70 – 74	9,191	104,210,592	11,338
75 – 79	7,322	74,838,468	10,221
80 & Over	8,135	73,356,792	9,017
Total	44,537	\$ 547,579,320	\$ 12,295

2. <u>Disability Retirement</u>

<u>Number</u>	Total Annual Benefit	Average Annual Benefit
1,292	\$ 10,908,588	\$ 8,443
	• •	10,184
•	, ,	9,390 8,536
897	7,534,224	8,399
673	5,945,388	8,834
483	4,289,544	8,881
<u>232</u>	<u>1,882,860</u>	<u>8,116</u>
6,652	\$ 59,150,160	\$ 8,892
	1,292 902 1,001 1,172 897 673 483 232	1,292 \$ 10,908,588 902 9,186,264 1,001 9,399,096 1,172 10,004,196 897 7,534,224 673 5,945,388 483 4,289,544 232 1,882,860

3. Beneficiaries

Current Age Group	<u>Number</u>	Total Annual Benefit	Average Annual Benefit
Under 50	758	\$ 4,296,408	\$ 5,668
50 – 54	264	1,939,452	7,346
55 – 59	336	2,828,460	8,418
60 – 64	463	3,797,988	8,203
65 – 69	571	5,180,940	9,073
70 – 74	738	5,883,468	7,972
75 – 79	746	5,509,668	7,386
80 & Over	<u>1,062</u>	7,638,780	7,193
Total	4,938	\$ 37,075,164	\$ 7,508



Table IX

South Carolina Retirement System (SCRS)

Outline of Actuarial Assumptions and Methods

1. Interest to be Earned by Fund

7.25% per annum, compounded annually.

2. Salary Increases

Salary increases are assumed in accordance with the following representative rates:

	Annual		Annual
<u>Age</u>	<u>Increases</u>	<u>Age</u>	<u>Increases</u>
25	10.15%	45	4.75%
30	7.95%	50	4.45%
35	6.45%	55	4.25%
40	5.55%	60	4.25%

3. Decrement Rates

a. Service Retirement

			<u>Annual</u>	Rates of		
	Reduced	Unreduced	Reduced	Unreduced	Reduced	Unreduced
	Service	Service	Service	Service	Service	Service
Age	Retirement	Retirement*	Retirement	Retirement*	Retirement	Retirement*
					Male d	& Female
	Male T	eachers	Female '	<u>Teachers</u>	Empl	oyees
50		10.0%		15.0%		10.0%
55	5.0%	10.0%	5.0%	15.0%	5.0%	10.0%
60	7.5%	15.0%	10.0%	25.0%	7.5%	15.0%
61	10.0%	20.0%	10.0%	25.0%	7.5%	15.0%
62	20.0%	30.0%	25.0%	45.0%	20.0%	30.0%
63	15.0%	25.0%	15.0%	30.0%	15.0%	25.0%
64	15.0%	25.0%	15.0%	30.0%	15.0%	25.0%
65		35.0%		45.0%		35.0%
66		20.0%		25.0%		25.0%
67		15.0%		20.0%		20.0%
68		15.0%		20.0%		20.0%
69		15.0%		25.0%		20.0%
70		100.0%		100.0%		100.0%

Annual Dates of

^{*}Plus 25% in year when first become eligible for unreduced service retirement before age 65.



Table IX (continued two)

b. In-service Mortality, Disability and Withdrawal

			Annual Rates o	f		
	Withdra			Withdrawal Years of Service		
<u>Age</u>	<u>Mortality</u>	<u>Disability</u>	0-4	5-9	10+	
		Male 7	<u>Ceachers</u>		•	
25	0.06%	0.02%	11.90%	7.50%		
30	0.07%	0.04%	10.20%	4.20%	2.80%	
35	0.07%	0.05%	10.50%	4.80%	2.10%	
40	0.10%	0.11%	8.10%	4.60%	1.50%	
45	0.18%	0.19%	9.40%	4.00%	1.50%	
50	0.30%	0.35%	7.70%	4.00%	1.90%	
55	0.46%	0.60%	7.70%	3.60%	2.90%	
60	0.65%	1.03%				
64	0.90%	1.65%				
		Female T	<u> Feachers</u>			
25	0.03%	0.05%	8.80%	6.10%	•	
30	0.04%	0.07%	9.30%	4.20%	2.40%	
35	0.04%	0.07%	8.20%	4.00%	1.70%	
40	0.05%	0.12%	6.70%	3.30%	1.40%	
45	0.08%	0.21%	6.30%	2.90%	1.20%	
50	0.13%	0.35%	6.30%	3.00%	1.20%	
55	0.21%	0.61%	6.60%	2.80%	1.60%	
60	0.33%	1.07%				
64	0.49%	1.44%				
		Male Em	ployees			
25	0.06%	0.07%	15.10%	8.70%		
30	0.07%	0.11%	12.50%	6.40%	3.60%	
35	0.07%	0.14%	11.50%	5.90%	2.90%	
40	0.10%	0.18%	10.60%	5.50%	2.30%	
45	0.18%	0.26%	9.20%	4.60%	2.00%	
50	0.30%	0.44%	7.90%	4.60%	1.70%	
55	0.46%	0.70%	7.70%	4.00%	2.10%	
60	0.65%	1.07%				
64	0.90%	1.49%				
		Female Er	nployees			
25	0.03%	0.07%	13.40%	7.90%		
30	0.04%	0.11%	12.00%	6.70% -	4.00%	
35	0.04%	0.14%	11.10%	5.40%	2.70%	
40	0.05%	0.18%	9.90%	4.90%	2.40%	
45	0.08%	0.26%	8.50%	4.60%	1.80%	
50	0.13%	0.44%	8.20%	4.00%	2.10%	
55	0.21%	0.70%	6.80%	3.90%	2.00%	
60	0.33%	1.07%		•		
64	0.49%	1.49%	:			



Table IX (continued three)

4. Mortality After Retirement

For healthy retirees and beneficiaries, the 1983 Group Annuity Mortality Table rates. A separate table of mortality rates is used for disabled retirees. The following are sample rates for the healthy retirees and beneficiaries:

Age	<u>Male</u>	Female
50	0.39%	0.16%
55	0.61%	0.25%
60	0.92%	0.42%
65	1.56%	0.71%
70	2.75%	1.24%
75	4.46%	2.40%
80	7.41%	4.29%
85	11.48%	6.99%

5. Marriage Assumption

100% of all active members are assumed to be married, with female spouses being 3 years younger.

6. Asset Valuation Method

Actuarial value of assets recognizes a portion of the difference between the market value of assets and the expected value of assets, based on the assumed investment rate of return. The amount recognized each year is 20% of the difference between market and expected value. The actuarial value of assets is limited to a range between 80% and 120% of market value.

7. Cost Methods

a. Normal Retirement, Termination, Death and Disability Benefits

Projected benefit with level percentage entry age normal cost and open-end unfunded actuarial accrued liability. Gains and losses are reflected in the period remaining to liquidate the unfunded actuarial accrued liability.

b. Group Life Insurance Benefit

One-year term cost method.



Table IX (continued four)

8. Additional Assumptions

There are certain other assumptions made that have a relatively minor effect on liabilities. These assumptions are available upon request.

9. <u>Cost-of-Living Increases</u>

None assumed.



Table X

South Carolina Retirement System (SCRS)

Outline of Principal Plan Provisions

1. Effective Date

July 1, 1945.

2. Eligibility Requirements

All full-time, part-time, or temporary personnel who fill a permanent position as a public school employee, public higher education personnel, state employees, and city, county and other local public employees of participating employers must join as a condition of employment as of the effective date of employment.

Employees in non-permanent positions may choose to join.

3. Creditable Service

The sum of "prior service" and "membership service." Prior service means service rendered prior to membership for which credit is allowed. Membership service means service during which contributions have been made. This is counted in years, months, and days.

There are a number of different types of service that may be purchased by an employee under special rules, including educational leave, medical leave, federal service, maternity leave, military leave, municipality service, non-member service, out-of-state service, additional service credit, and others.

4. Average Final Compensation

The total of the highest 12 consecutive quarters of compensation earned divided by 3. Denoted AFC. Compensation generally includes gross salary or wages, overtime, sick pay, wage deferrals, and termination pay for unused annual leave. For member who joined the system on or after January 1, 1996, compensation for benefit and contribution purposes is limited to \$150,000, subject to annual index.

5. Normal Retirement

a. <u>Eligibility</u> Attainment of age 65, or completion of 30 years of creditable service.

b. Benefit 1.82% of AFC times creditable service.



Table X (continued two)

6. Early Retirement

a. Eligibility

Attainment of age 60, or attainment of age 55 with 25 years of

creditable service.

b. Benefit

Benefit accrued to date of retirement, reduced 5% for each year

prior to 65 (for age 60 eligibility), or 4% for each year prior to

30 years (for age 55 with 25 years eligibility).

7. <u>Disability Retirement</u>

a. Eligibility

Disability prior to normal retirement age with at least 5 years

of creditable service. The service requirement is waived for job related disability.

b. Benefit

Benefit equal to the amount that would have been payable at age 65 assuming continued employment and AFC at date of

disability, less the equivalent benefit that would have been provided by the employee contributions that would have been

made until age 65.

8. Death Benefits

a. Death prior to age 60 or 15 years of creditable service

Refund of employee contributions with interest plus Group Life Insurance in a lump sum equal to annual earnable compensation at death of death. Group life Insurance only payable to those with at least 1 year of creditable service, unless death is job related, and whose employer participates.

b. Death after age 60 or with 15 years of creditable service

Same as above, however, instead of the refund of employee contributions with interest, the beneficiary may elect to receive an annuity equal to the amount that would have been payable had the employee retired the day before death under option 2 described below.

9. <u>Employee Contributions</u>

6% of earnable compensation.



Table X (continued three)

10. Vested Benefit upon Termination

a. Eligibility

100% vesting upon completion of 5 years of creditable

service.

b. Benefit

Accrued benefit as of date of termination payable as of age

60.

11. Termination Benefit

a. Eligibility

Elect return of accumulated employee contributions.

b. Benefit

Return of employee contributions plus interest.

12. Normal Form of Retirement Income

Monthly life annuity with guaranteed return of employee contributions plus interest.

13. Optional Forms of Retirement Income

a. Option 1. Monthly life annuity. If death occurs in first 10 years, employee contributions plus interest are refunded less 10% for each year of retirement.

b. Option 2. Monthly life annuity with 100% of reduced benefit continued to beneficiary upon death.

c. Option 2(a). Same as option 2 with revert to maximum option if beneficiary predeceases retiree.

d. Option 3. Monthly life annuity with 50% of reduced benefit continued to beneficiary upon death.

e. Option 3(a). Same as option 3 with revert to maximum option if beneficiary predeceases retiree.

f. Option 4. Social security leveling option which provides additional benefits before eligibility for social security and a lesser benefit after social security eligibility.

14. Cost of Living Adjustment

Granted upon approval of State Budget and Control Board if funding objectives are met. The amount is the increase in the calendar year CPI, unless the CPI increases greater than 3%. If this occurs, a 4% increase is granted.

