

South St. Paul Police Relief Association



Annual Actuarial Valuation December 31, 1994

Gabriel, Roeder, Smith & Company Actuaries and Consultants

HV 8148 .S62 S68a 1994 South St. Paul Police Relief Association



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June 22, 1995

**Board of Trustees** South St. Paul Policemen's Relief Association South St. Paul, Minnesota

Submitted in this report are the results of the December 31, 1994 actuarial valuation of the assets, actuarial values and contribution requirements associated with the benefits provided by the South St. Paul Policemen's Relief Association.

The valuation results contained in Section A provide the actuarial information needed to determine the employer's "minimum obligation" effective January 1, 1996. Section A also contains comments regarding the valuation results.

The valuation was based upon information furnished by the Association concerning benefits, financial transactions, active members, terminated members, retirants and beneficiaries. Data was checked for year to year consistency but was not otherwise audited by us. This information is summarized in Section B.

A description of the actuarial funding method and the risk experience assumptions used is contained in Section C. The economic risk experience assumptions, as well as the actuarial funding method to be used, are established by state law.

Information needed to comply with Statement No. 5 of the Governmental Accounting Standards Board is contained in Section D.

The actuarial valuation was prepared using generally accepted actuarial principles and practices based upon the methods, assumptions, summary of plan provisions and the member and financial data described in this report.

Respectfully submitted,

Manul Peterson Mary an Vitale J. Daniel Petersen Mary Ann Vitale

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## **SECTION A**

## **Valuation Results**

### Comments

#### **Economic Assumptions and Financing Method**

The economic assumptions of 5% annual investment return and 3-1/2% annual salary increases are established by state law. State law also specifies that the annual minimum obligation of the municipality shall be determined by adding (i) the employer normal cost percent times covered payroll to (ii) the level dollar amount required to amortize the unfunded actuarial accrued liability by December 31, 2010.

It is worth noting that when the same assumptions and methods are applied to plans which differ in nature, the valuation results may not be comparable. Caution should be exercised when attempting to assess the financial condition of one Association relative to another on the basis of valuation results produced using the assumptions and methods mandated by state law.

In determining the actuarial value of assets, state law requires the use of book value plus one-third of the difference between market value and book value. In this case, market value was not available for certain investments which had a book value of \$824,475. For these investments, the market value was assumed to be equal to book value.

## CONTRIBUTION RATE TO PROVIDE BENEFITS Member portion & Employer portion Effective January 1, 1996

	If Paid Equally Throughout Year					
	Normal Cost					
<b>Contributions for</b>	% of Active <u>Payroll for 1996</u>	+	<b>UAAL Dollars</b>			
Normal cost of annuities:						
Age & service: to members Age & service: to survivors Disability Death before retirement Refunds of member contributions Total Normal Cost	17.48% 3.05 3.06 2.07 <u>0.05</u> 25.71%					
Amortization of unfunded actuarial accrued liabilities (UAAL) (15 year level dollar payment)						
Retired lives Active members Total			\$200,336 <u>180,783</u> 381,119			
Total Cost of Benefits	25.71%	+	\$381,119			
Member contributions	8.00%					
COMPUTED EMPLOYER RATE:						
<ul><li>(a) If Paid Equally Throughout Year</li><li>(b) IF PAID AT CALENDAR YEAR END</li></ul>	17.71 <i>%</i> 18.15 <i>%</i>	+ +	\$381,119 \$390,531			

### **Present Actuarial Condition**

The Association's accrued actuarial assets were in excess of \$8.2 million on December 31, 1994 -- a considerable sum of money if unencumbered and allocated among a small group of persons. This is not the case with the Association's assets.

The following schedule puts the \$8.2 million into perspective by showing the relationship between accrued actuarial assets, actuarial accrued liabilities, and the number of persons with actual and potential claims on the Association's assets.

	Valuation Assets	Actuarial Accrued Liabilities	Unfunded Actuarial Accrued Liabilities	Percent <u>Funded</u>
Retirants and Beneficiaries				
Retired Members (24)		\$ 8,341,572		
Surviving Spouses (14)		1,617,768		
Surviving Children (0)		0		
Total (38)	\$7,828,361	\$ 9,959,340	\$2,130,979	78.6%
Deferred Members (0)	0	0	0	
Active Members (8)	380,616	2,303,607	<u>1,922,991</u>	16.5
Total	\$8,208,977	\$12,262,947	\$4,053,970	66.9%

Actuarial accrued liabilities represent the value, computed as of December 31, 1994 of:

- (i) retirement allowances likely to be paid the 38 retirants and beneficiaries; and
- (ii) the contributions assumed to have been made for the 8 active members from entry into the plan until December 31, 1994.

The value of retirement allowances likely to be paid the 38 retirants and beneficiaries, discounted for investment earnings and mortality, was computed to be \$9,959,340 as of December 31, 1994. To put this amount in perspective, the \$9,959,340, together with investment earnings, will just be sufficient to pay the 38 retirants and beneficiaries their allowances for their remaining lifetimes. This assumes the 38 retirants and beneficiaries live and die according to the assumed mortality and the \$9,959,340 is invested to yield an average annual return of 5.0% over the remaining lifetimes of the retirants and beneficiaries.

With respect to the active members, the actuarial accrued liability of 2,303,607 represents the amount that would have been accumulated by December 31, 1994. This assumes the normal cost (which is expressed as a level percentage of pay) had been contributed from the date of hire until December 31, 1994 for the 8 actives, and that these amounts had earned 5.0% interest. It also assumes that the members in the past have lived, died, withdrawn, retired and received salary increases according to the actuarial assumptions shown in this report.

Valuation Date December 31	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded
1985	\$ 9,733	\$4,570	47.0%
1986	9,797	5,102	52.1
1987	10,018	5,656	56.5
1988#	10,663	5,984	56.1
1989	10,741	6,323	58.9
1990	11,321	6,897	60.9
1991	11,511	7,474	64.9
1992	11,599	8,153	70.3
1993	11,942	8,427	70.6
1994	12,263	8,209	66.9

### Historical Funding Ratio Schedule (\$ in thousands)

# After change in benefit provisions.

Year Ended <u>December 31</u> Valuation Fiscal		Total Normal Cost as a Percent of Valuation Payroll*	Contribution For Unfunded Actuarial Accrued Liabilities
1985	1987	27.49%	\$365,143
1986	1988	27.43	339,661
1987	1989	26.42	323,331
1988	1990#	26.65	356,144
1989	1991	25.99	345,976
1990	1992	26.06	357,236
1991	1993	25.95	337,034
1992	1994	25.79	298,275
1993	1995	25.58	316,499
1994	1996	25.71	381,119

### **Computed Contributions - Comparative Schedule**

# After change in benefit provisions.

### Contribution for Calendar Year Effective January 1, 1996

For any period of time the percent-of-payroll contribution rate is converted to dollars. The amount of dollars for any calendar year depends upon the results of the last actuarial valuation, and the timing of contributions within the year. The later the contribution date, the greater the dollar amount will be.

The municipality's dollar contribution for the year may be determined as follows:

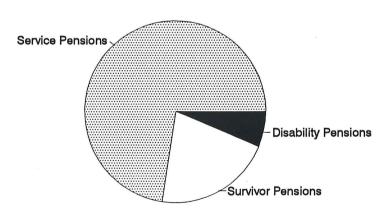
(1)	Estimated covered payroll for 1996	\$	
(2)	Total normal cost % from page A-2	25.71%	
(3)	Total normal cost (Line 1 times line 2)		\$
(4)	x 1.035 1994 Administrative expenses paid from the Special Fund		
(5)	Amortization payment on UAAL from page A-2		381,119
(6)	Total contributions required (Line 3 plus line 4 plus line 5)		
(7)	Employee contributions (Line 1 times 8%)	\$	
(8)	<ul> <li>(a) State amortization aid based on 12/31/78 UAAL of \$3,773,129</li> <li>(b) State amortization aid based on 1984 legislation <u>7,249</u></li> <li>(c) Total State amortization aid</li> </ul>		
(9)	Estimated insurance premium aid		
(10)	Estimated total contributions from other sources (Line 7 plus line 8 plus line 9)		
(11)	Employer's Minimum Obligation if payment is made in equal installments throughout the year (Line 6 minus line 10)		\$
(12)	EMPLOYER'S MINIMUM OBLIGATION IF PAYMENT IS MADE AT YEAR END (Line 11 times 1.0247)		\$

## **SECTION B**

# Valuation Data and Summary of Benefit Provisions

## Retirants and Beneficiaries December 31, 1994 By Type of Annuity Being Paid

Type of Annuity Being Paid	<u>No.</u>	Monthly Amounts	Computed Actuarial Accrued Liabilities
Retirants receiving:			
Age & service	22	\$43,188.25	\$7,278,348
Disability	2	3,785.07	1,063,224
		46,973.32	8,341,572
Totals	24		
Beneficiaries receiving:			
Spouse	14	12,468.40	1,617,768
Child	_0	0.00	0
Totals	14	12,468.40	1,617,768
	-		
Totals	38	\$59,441.72	\$9,959,340



Monthly Amount Paid by Benefit

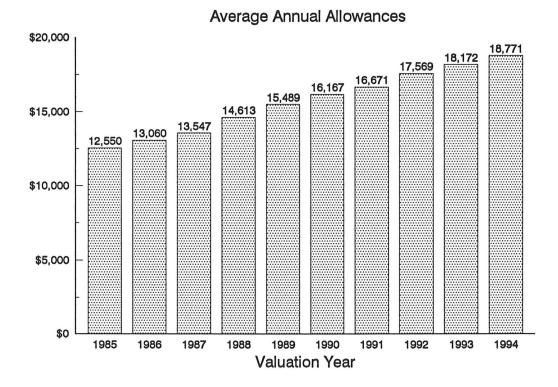
### **Retirants and Beneficiaries December 31, 1994**

### By Attained Ages

	Number						
Attained Ages	Age & Service	Disability	Death Before Retirement				
45-49		1					
50-54	2	1	1				
55-59	2	1					
60-64	7						
65-69	6						
70-74	5						
75-79	4						
80-84	6						
90-94	2						
Totals	34	3	1				

## Retirants and Beneficiaries Added to and Removed from Rolls Comparative Statement

Valuation Date <u>December 31</u>	No. Added to Rolls	No. Removed from Rolls	<u>Rolls</u>	End of Year Annual <u>Allowances</u>	Discounted Value of 
1985	5		35	\$439,233	\$6,972,648
1986	1	2	34	444,037	6,772,128
1987	1		35	474,139	7,049,940
1988	2		37	540,675	7,953,960
1989	2	3	36	557,605	8,092,992
1990	2	2	36	582,022	8,551,632
1991			36	600,151	8,515,188
1992	1	1	36	632,500	8,804,232
1993	2	1	37	672,372	9,529,656
1994	1		38	713,301	9,959,340



Active Members December 31, 19	94
By Attained Age and Years of Serv	vice

			Years of		Totals				
Attained Age	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
35-39			1					1	\$ 48,163
40-44 45-49 50-54				1 2 1		1 1		1 3 2	42,810 150,633 101,572
61						1		1	48,163
Totals			1	4		3		8	\$391,341

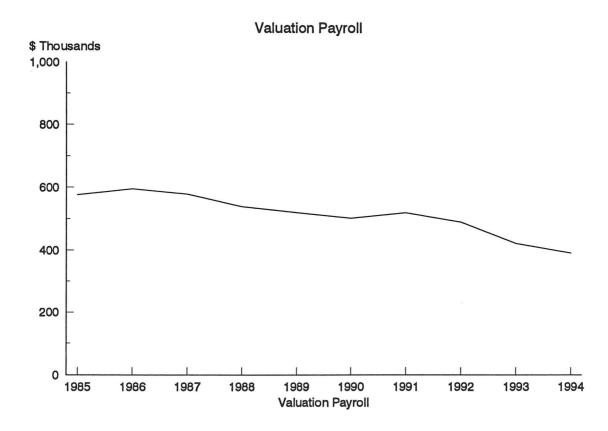
While not used in the financial computations, the following group averages are computed and shown because of their general interest.

**Group Averages:** 

Age: 48.1 years Service: 21.1 years Annual Pay: \$48,918

## Comparative Schedule Of Active Members

Valuation Date		Valuation		Aver	age	
December 31	Active Members	Payroll	Age	Service	Pay	% Incr.
1985	17	\$576,254	44.2 yrs.	15.6 yrs.	\$33,897	6.7%
1986	17	594,956	45.2	16.6	34,997	3.2
1987	16	579,108	45.4	17.4	36,194	3.4
1988	14	538,973	45.4	17.7	38,498	6.4
1989	13	520,621	45.1	18.1	40,048	4.0
1990	12	502,904	46.3	19.3	41,909	4.6
1991	12	520,730	47.3	20.3	43,394	3.5
1992	11	490,564	47.3	20.4	44,597	2.8
1993	9	422,019	47.3	20.7	46,891	5.1
1994	8	391,341	48.1	21.1	48,918	4.3



### Brief Summary (12/31/94) of Benefit Provisions Evaluated and/or Considered

#### AGE & SERVICE RETIREMENT

Eligibility. 20 years of service and 50 years of age.

Amount. 50% of base pay. For each year over 25, an additional 1/2% of base pay is added to the benefit. (The additional benefit is not subject to the post-retirement adjustment provisions.)

Pay Used For Plan Purposes. "Base pay" means the prevailing base pay of rank held at retirement.

#### **DISABILITY RETIREMENT**

*Eligibility*. Disabled to the extent that no longer able to perform the duties of a police officer before being eligible for age & service retirement.

Amount. Same as age & service retirement.

#### MEMBER'S DEATH WHILE ACTIVE, OR IN DEFERRED STATUS, OR RETIRED

Eligibility.

Spouse. Legally married to member at separation from service and residing with member at time of death.

Child. Younger than age 18.

Amount.

Spouse. 25% of base patrolman's pay.

Child. \$25 per month per child.

Vested Deferred. 5 years of service. Payment beginning is deferred to attainment of age 50.

**Post-Retirement Adjustments ("Escalator").** Each time base pay is changed, benefit payments are simultaneously changed by the same percent that base pay is changed. (Not applicable to children's benefits.)

*Member Contributions*. 8% of base pay. Total member contributions are refundable, without interest, if no benefit is payable upon separation from service.

## SECTION C

# Valuation Methods and Assumptions

### **Valuation Methods and Assumptions**

The Entry Age Normal Cost method was used to determine the normal cost of all benefits. The rate of investment return (interest) as required by state law used in making the valuation was 5.0 percent per annum, compounded annually. Age & service retirement was assumed to occur at age 58, attained age if older.

Sample Ages	Single Life Values:Present Value of \$1 MonthlyLevelIncreasingFor Life3.5% YearlyMenWomen				Futur <u>Expectanc</u> Men	
45	\$177.21	\$189.58	\$280.82	\$314.75	29.50	34.00
50	163.12	177.21	246.55	280.82	25.20	29.50
55	147.50	163.12	212.60	246.55	21.16	25.20
60	130.52	147.50	179.49	212.60	17.42	21.16
65	112.87	130.52	148.28	179.49	14.05	17.42
70	95.20	112.87	119.70	148.28	11.09	14.05
75	77.77	95.20	93.83	119.70	8.52	11.09
80	61.71	77.77	71.69	93.83	6.39	8.52

### **Mortality Table\***

\* UP-1984 Table set forward 2 years for males and set back 3 years for females.

## Sample Rates of Separating from Active Employment Before Retirement, Death or Disability

Sample Ages	% of Active Members Separating within Next Year
20	1.50%
25	1.25
30	1.00
35	0.75
40	0.50
45	0.25
50+	0.00

Sample Ages	Present Pay Resulting in <u>Pay of \$1,000 at Age 60</u>	Present Increase in Pay <u>During Next Year</u>
20	\$ 253	3.5%
25	300	3.5
30	356	3.5
35	423	3.5
40	503	3.5
45	597	3.5
50	709	3.5
55	842	3.5
60	1,000	3.5

### Pay Adjustment Factor Used To Project Current Pays

Use of the pay adjustment factor illustrated above is required by state law.

### **Anticipated Disability Retirements**

Sample Ages	% of Active Members Becoming Disabled within Next Year
20	0.08%
25	0.08
30	0.08
35	0.08
40	0.20
45	0.26
50	0.49
55	0.89

### SECTION D

The Pension Benefit Obligation and Certain Other Disclosures Required by Statement No. 5 of The Governmental Accounting Standards Board

#### **Pension Benefit Obligation**

The amount shown below as the "pension benefit obligation" is a standardized disclosure measure of the present value of pension benefits, adjusted for the effects of projected salary increases, estimated to be payable in the future as a result of employee service to date. The measure is the actuarial present value of credited projected benefits and is intended to (i) help users assess the plan's funding status on a going-concern basis, (ii) assess progress being made in accumulating sufficient assets to pay benefits when due, and (iii) allow for comparisons among public employee retirement plans. The measure is independent of the actuarial funding method used to determine contributions to the plan.

The pension benefit obligation was determined as part of an actuarial valuation of the plan as of December 31, 1994. Significant actuarial assumptions used in determining the pension benefit obligation include (a) a rate of return on the investment of present and future assets of 5.0% per year compounded annually, (b) projected salary increases of 3.5% per year compounded annually, attributable to inflation, (c) the assumption that benefits will increase 3.5% per year after retirement.

At December 31, 1994, the unfunded pension benefit obligation was \$3,936,871, determined as follows:

Pension Benefit Obligation:

Retirants and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$ 9,959,340
Current employees	
Accumulated employee contributions including	
allocated investment income	380,616
Employer financed	1,847,049
Total Pension Benefit Obligation	\$12,187,005
Not aggate available for hanafite at cost	
Net assets available for benefits, at cost (market value was \$8,126,663)	8,250,134
Unfunded Pension Benefit Obligation	\$ 3,936,871

The total pension benefit obligation as of January 1, 1994 was \$11,857,608. During the year, the plan experienced a net change of \$329,397 in the pension benefit obligation.

#### **Contributions Required and Contributions Made**

The Association's funding policy provides for periodic employer contributions at actuarially determined rates that, expressed as percentages of annual covered payroll, are designed to accumulate sufficient assets to pay benefits when due. The normal cost and actuarial accrued liability are determined using an entry age actuarial funding method. Unfunded actuarial accrued liabilities are being amortized as a level dollar amount over a period of 15 years.

During the year ended December 31, 1994, contributions totaling \$442,359 -- \$407,638 employer and \$34,721 employee -- were made in accordance with contribution requirements determined by an actuarial valuation of the plan as of December 31, 1992. The employer contributions consisted of \$87,271 for normal cost and \$320,367 for amortization of the unfunded actuarial accrued liability. Employer contributions represented 83.10% of covered payroll.

Significant actuarial assumptions used to compute contribution requirements were the same as those used to compute the standardized measure of the pension benefit obligation.

1987198519.49%\$365,143\$576,254\$477,455\$522,4451988198619.43339,661594,956455,261481,0861989198718.42323,331579,108430,003437,6971990198818.65356,144538,973456,662463,2251991198917.99345,976520,621439,636464,6061992199018.06357,236502,904448,060472,702	Fiscal Year Dec. 31	Valuation Date Dec. 31	Contribution Rates Normal Cost % of Valuation UAAL Payroll Dollars		Valuation Payroll	Dollar Contr <u>For Fiscal</u> Computed	
1993199117.95337,034520,730430,505455,8921994199217.79298,275490,564385,546407,6381995199317.58316,499422,019390,690	1988 1989 1990 1991 1992 1993 1994	1986 1987 1988 1989 1990 1991 1992	19.43 18.42 18.65 17.99 18.06 17.95 17.79	339,661 323,331 356,144 345,976 357,236 337,034 298,275	594,956 579,108 538,973 520,621 502,904 520,730 490,564	455,261 430,003 456,662 439,636 448,060 430,505 385,546	481,086 437,697 463,225 464,606 472,702 455,892

**Computed Contribution Comparative Schedule** 

<b>Required Supplementary Information</b>	
<b>Analysis of Funding Progress</b>	

Val'n Date Dec. 31	(1) Net Assets Available for Benefits	(2) Pension Benefit Obligation (PBO)	(3) Percent Funded (1)/(2)	(4) Unfunded PBO (2)-(1)	(5) Annual Covered Payroll	(5) Unfunded PBO as a % of Covered Payroll (4)/(5)
1987	\$5,702,576	\$ 9,864,223	57.8%	\$4,161,647	\$579,108	718.6%
1988	6,113,209	10,565,146	57.9	4,451,937	538,973	826.0
1989	6,383,688	10,639,866	60.0	4,256,178	520,621	817.5
1990	7,027,947	11,225,425	62.6	4,197,478	502,904	834.6
1991	7,473,058	11,414,078	65.5	3,941,020	520,730	756.8
1992	8,184,806	11,500,161	71.2	3,315,355	490,564	675.8
1993	8,272,205	11,857,608	69.8	3,585,403	422,019	849.6
1994	8,250,134	12,187,005	67.7	3,936,871	391,341	1,006.0

Analysis of the dollar amounts of net assets available for benefits, pension benefit obligation, and unfunded pension benefit obligation in isolation can be misleading. Expressing the net assets available for benefits as a percentage of the pension benefit obligation provides one indication of the plan's funded status on a going-concern basis. Analysis of this percentage over time indicates whether the system is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the plan. The unfunded pension benefit obligation and annual covered payroll are both affected by inflation. Expressing the unfunded pension benefit obligation as a percentage of annual covered payroll approximately adjusts for the effects of inflation and aids analysis of the progress being made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the plan.

## **APPENDICES**

#### **Appendix I**

#### **Financial Principles and Operational Techniques**

*Promises Made, and Eventually Paid.* As each year is completed, the plan in effect hands an "IOU" to each member then acquiring a year of service credit -- the "IOU" says: "The Pension Plan owes you a portion of your retirement benefits, payments to be made in cash, commencing when you qualify for retirement."

The related key financial questions are: Which generation of taxpayers contributes the money to cover the IOU? The present taxpayers, who receive the benefit of the member's present year of service? Or the future taxpayers, who happen to be in town paying taxes at the later time when the IOU becomes a cash demand?

A sound principle of sound retirement plan financing is to have this year's taxpayers contribute the money to cover the IOUs being handed out this year. By following this principle, THE CONTRIBUTION RATE WILL REMAIN APPROXIMATELY LEVEL FROM GENERATION TO GENERATION -- our children and grandchildren will contribute the same percents of active payroll we contribute now.

#### A Pension Plan Becomes Closed

The diagram in this appendix shows two important activities which occur after a plan has been closed to employees hired in the future.

Cash benefits paid continue to increase for decades, while active member payroll begins to decrease to zero.

Funding Method. A funding method is the long-term, planned pattern for employer contributions.

For an open plan (a plan covering future employees), the level-percent-of-active-member payroll funding method is the basic funding method.

The level-percent funding method can also be applied to a closed plan. However, the resulting contribution percent usually jumps to a high rate, because the number of covered active members is decreasing.

A preferred funding method for a closed plan consists of: level-percent funding for normal cost (the cost of members' service now being rendered); plus a level dollar contribution for unfunded actuarial accrued liabilities over a limited period of years. The period of years must be limited so that plan assets don't become zero while benefits are still payable.

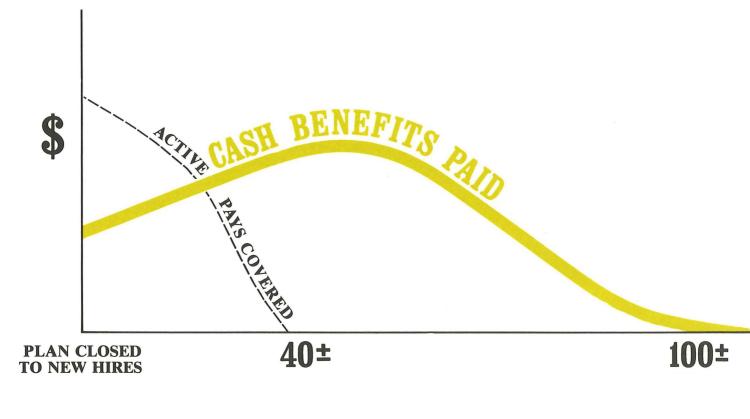
*Computing Contributions To Support Plan Benefits*. From a given schedule of benefits and from the employee data and asset data furnished him, the actuary determines the contribution rates to support the benefits by means of an actuarial valuation and a funding method.

In making an actuarial valuation, assumptions must be made regarding anticipated financial experiences for the next year and for decades in the future. Only the subsequent actual experience of the plan can indicate the degree of accuracy of the assumptions.

*Reconciling Differences Between Assumed Experience and Actual Experience*. Once actual experience has occurred and been observed, it will not coincide exactly with assumed experience, regardless of the wisdom of the assumptions or the skill of the actuary and the millions of calculations he made. The future can be predicted with considerable but not 100% precision, except for inflation which seems to defy reliable prediction.

A well-managed plan copes with these continually changing differences by having periodic actuarial valuations. Each actuarial valuation is a complete recalculation of assumed future experience, taking into account all past differences between assumed and actual experience. The result is continuing adjustment in financial position.

# **A CLOSED PENSION PLAN**



# **YEARS OF TIME**

<u>A plan becomes closed</u> when no new hires are admitted to active membership. The persons covered by the plan at the time of closing continue their normal activities and continue to be covered by the plan, until the last survivor dies.

CASH BENEFITS LINE. After a pension plan becomes closed, the usual pattern is for cash benefits to continue to increase for decades of time. Eventually the cash benefits will peak, and then gradually decrease over more decades of time, ultimately to zero. The last cash benefit is likely to occur a century after the time the plan is closed.

The precise amounts of cash benefits cannot be known now, and must be estimated by assumptions of future experiences in a variety of financial risk areas.

#### **Appendix II**

#### **Meaning of Unfunded Accrued Liabilities**

Almost every pension plan (public or private) has "unfunded accrued liabilities," so whatever they are, they aren't rare. Since the term is not part of everyday conversation, it needs some definition.

"Accrued liabilities" are the present value \$ of plan promises to pay benefits in the future based upon service already rendered - - - a liability has been established ("accrued") because the service has been rendered, but the resulting monthly cash benefit may not be payable until years in the future. Accrued liabilities \$ are the result of complex mathematical calculations, which are made by the plan's actuary (which is the name given to the specialist who makes such calculations).

If "accrued liabilities" at any time exceed the plan's accrued assets (cash & investments), the difference is "unfunded accrued liabilities." This is the common condition. If the plan's assets equalled the plan's "accrued liabilities," the plan would be termed "fully funded." This is a rare condition.

Each time a plan adds a new benefit which applies to service already rendered, an "accrued liability" is created, which is also an "unfunded accrued liability" because the plan can't print instant cash to cover the accrued liability. Payment for such unfunded accrued liabilities is spread over a period of years, commonly in the 20-40 year range.

Unfunded accrued liabilities can occur in another way: If actual financial experience is less favorable than assumed financial experience, the difference is added to unfunded accrued liabilities. In plans where plan benefits are directly related to an employee's pay near time of retirement (a common plan provision) rather than his average pay throughout his working career, unfunded accrued liabilities have been increasing in recent years because unexpected rates of pay increase have created additional accrued liabilities which could not be matched by reasonable investment results. Some of these unexpected pay increases are the direct result of inflation, which is a very destructive force on financial stability.

The existence of unfunded accrued liabilities is not bad, then (any more than a mortgage on your house is "bad"), but the changes from year to year in amount of unfunded accrued liabilities are important - - - "bad" or "good" or somewhere in between.

Nor are unfunded accrued liabilities a bill payable immediately (your food costs are payable immediately), but it is important that policy-makers prevent the amount from becoming unreasonably high and it is vital that your plan have a sound method for making payments toward them so that they are controlled.

The existence of large amounts of unfunded accrued liabilities indicates that total contributions in past years were less than level - - - an almost certain history if retired life liabilities are not fully funded now.