

Virginia Police Relief Association

Annual Actuarial Valuation
December 31, 1987

Gabriel, Roeder, Smith & Company Actuaries & Consultants

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June 3, 1988

Board of Trustees Virginia Police Relief Association Virginia, Minnesota

Submitted in this report are the results of the December 31, 1987 actuarial valuation of the assets, actuarial values and contribution requirements associated with the benefits provided by the Virginia Police Relief Association.

The valuation results contained in Section A provide the actuarial information needed to determine the employer's "minimum obligation" effective January 1, 1989. 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,

J. Daniel Petersen

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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.

### Virginia Police Relief Association

#### CONTRIBUTION RATE TO PROVIDE BENEFITS

Member portion & Employer portion Effective January 1, 1989

	If Paid Equally	Thro	oughout Year
Contributions for	Normal Cost % of Active Payroll for 1989	+	UAAL Dollars
Normal cost of annuities:			
Age & service: to members Age & service: to survivors Disability Death before retirement Refunds of member contributions Total Normal Cost	15.69% 2.62 3.14 2.01 0.30 23.76%		
Amortization of unfunded actuarial accrued liabilities (UAAL) (22 year level dollar payment)			
Retired lives Active members Total			\$ 0 43,520 43,520
Total Cost of Benefits	23.76%	+	\$43,520
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>	15.76% 16.15%	+	\$43,520 \$44,595

# Virginia Police Relief Association Present Actuarial Condition

The Association's accrued actuarial assets were in excess of \$3.4 million on December 31, 1987 -- 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 \$3.4 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.

	Accrued Actuarial Assets	Actuarial Accrued Liabilities	Unfunded Actuarial Accrued Liabilities	% Funded
Retirants and Beneficiaries Retired Members (11) Surviving Spouses (7) Surviving Children (0)		\$2,008,644 406,020 0		
Total (18)	\$2,414,664	\$2,414,664	\$ 0	100.0%
Deferred Members (0)	0	0	0	
Active Members (14)	1,043,231	1,630,296	587,065	64.0
Total	\$3,457,895	\$4,044,960	\$587,065	85.5%

Actuarial accrued liabilities represent the value, computed as of December 31, 1987 of:

- (i) retirement allowances likely to be paid the 18 retirants and beneficiaries; and
- (ii) the contributions assumed to have been made for the 14 active members from entry into the plan until December 31, 1987.

The value of retirement allowances likely to be paid the 18 retirants and beneficiaries, discounted for investment earnings and mortality, was computed to be \$2,414,664 as of December 31, 1987. To put this amount in perspective, the \$2,414,664, together with investment earnings, will just be sufficient to pay the 18 retirants and beneficiaries their allowances for their remaining lifetimes. This assumes the 18 retirants and beneficiaries live and die according to the assumed mortality and the \$2,414,664 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 \$1,630,296 represents the amount that would have been accumulated by December 31, 1987. 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, 1987 for the 14 actives, and that these amounts had earned 5.0% interest. It also assumes that the members in the past had lived, died, withdrawn, retired and received salary increases according to the actuarial assumptions shown in this report.

Historical Funding Ratio Schedule (\$ in thousands)

Valuation Date December 31	Actuarial Accrued Liabilities	Accrued Actuarial Assets	Percent Funded
1978	\$1,811	\$ 766	42.3%
1979	N/A	N/A	N/A
1980	2,230	1,188	53.3
1981	2,587	1,485	57.4
1982	2,888	1,854	64.2
1983	3,363	2,205	65.6
1983*	3,606	2,205	61.1
1984	3,615	2,485	68.7
1985	3,826	2,882	75.3
1985#	3,843	2,882	75.0
1986	3,970	3,239	81.6
1987	4,045	3,458	85.5

<sup>\*</sup> After change in assumptions.

<sup>#</sup> After plan amendment.

Virginia Police Relief Association

Computed Contributions - Comparative Schedule

Year En Decembe Valuation	r 31	Total Normal Cost as a Percent of Valuation Payroll*	Contribution For Unfunded Actuarial Accrued Liabilities \$ or %
1978	1980	20.89%	\$51,037
1979	1981	N/A	N/A
1980	1982	23.17	67,101
1981	1983	N/A	N/A
1982	1984	23.36	68,903
1983	1985	23.32	78,593
1983	1985**	25.38	95,100
1984	1986	25.15	78,226
1985	1987	23.55	66,771
1985	1987#	23.55	67,971
1986	1988	23.64	52,921
1987	1989	23.76	43,520

<sup>\*</sup> Includes employee contributions.

<sup>\*\*</sup> After change in assumptions.

<sup>#</sup> After plan amendment.

# Virginia Police Relief Association CONTRIBUTION FOR CALENDAR YEAR EFFECTIVE JANUARY 1, 1989

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:

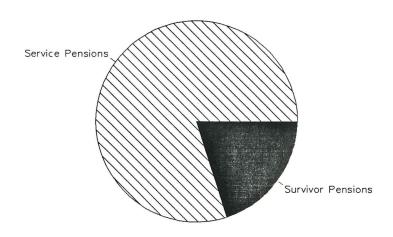
(1)	Estimated covered payroll for 1989 \$					
(2)	Total normal cost % from page A-2		23.76%			
(3)	Total normal cost (Line 1 times line 2)			\$		
(4)	x 1.035 1987 Administrative expenses paid from the Special Fund					
(5)	Amortization payment on UAAL from page A-2			43,520		
(6)	Total contributions 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 \$1,045,949</li> <li>(b) State amortization aid based on 1984 legislation</li> <li>(c) Total State amortization aid</li> </ul>	\$15,742 2,253	17,995			
(9)	Estimated insurance premium aid					
(10)	Estimated total contributions from other sources (Line 7 plus line 8 plus li	ne 9)				
(11)	Employer's Minimum Obligation if payment is in equal installments throughout the year (Line 6 minus line 10)	s made		\$		
(12)	EMPLOYER'S MINIMUM OBLIGATION IF PAYMENT IS AT YEAR END (Line 11 times 1.0247)	S MADE		\$		

### Section B

Valuation Data and Summary of Benefit Provisions

# Virginia Police Relief Association Retirants and Beneficiaries December 31, 1987 By Type of Annuity Being Paid

No.	Monthly Amounts	Computed Actuarial Accrued Liabilities
11 <u>0</u>	\$11,176.47 0.00	\$2,008,644
11	11,176.47	2,008,644
7 0	2,815.32 0.00	406,020 0
7	2,815.32	406,020
-		
18	\$13,991.79	\$2,414,664
	11 0 11 7 0 7	No.     Amounts       11     \$11,176.47       0     0.00       11     11,176.47       7     2,815.32       0     0.00       7     2,815.32       0     0.00       7     2,815.32



Monthly Amount Paid by Benefit

Virginia Police Relief Association

Retirants and Beneficiaries December 31, 1987

By Attained Ages

		Number	,
Attained Ages	Age & Service	Disability	Death Before Retirement
55-59	4		
60-64 65-69 75-79	2 3 3	1	
80 <b>-</b> 84 85 <b>-</b> 89	3 2	_	
Totals	17	1	0

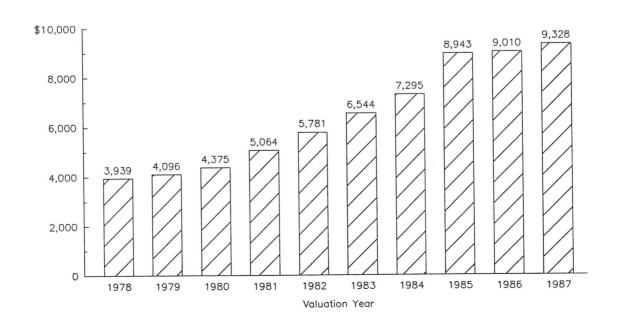
Virginia Police Relief Association

Retirants and Beneficiaries Added to and Removed from Rolls

Comparative Statement

Date No. Added No. Removed Annual Discounted December 31 to Rolls from Rolls No. Allowances Total Allo	
1978 18 \$ 70,911 \$ 968,	929
1979 1 2 17 69,640 924,	986
1980 17 74,379 960,	671
1981 1 1 17 86,085 981,	184
1982 17 98,273 1,060,	993
1983 3 4 16 104,704 1,561,	519
1984 1 1 16 116,713 1,736,	472
1985 3 19 169,926 2,599,	608
1986 1 1 19 171,195 2,529,	648
1987 1 18 167,901 2,414,	664

#### Average Annual Allowances



Virginia Police Relief Association
Active Members December 31, 1987
By Attained Age and Years of Service

								Totals
Attained						on Date		Valuation
Age	0-4	5-9	10-14	15-19	20-24	25-29 30 Plus	No.	Payroll
25-29		1					1	\$ 29,536
30-34		2					2 5	59,072
35-39		1	4				5	149,447
40-44 45-49 50-54			1	1	1	1	3 1 1	98,224 30,718 34,417
61				1			1	26,273
01								
Totals		4	5	2	2	1	14	\$427,687
						_		, ,

While not used in the financial computations, the following  $\underline{\text{group averages}}$  are computed and shown because of their general interest.

Age: 40.2 years.

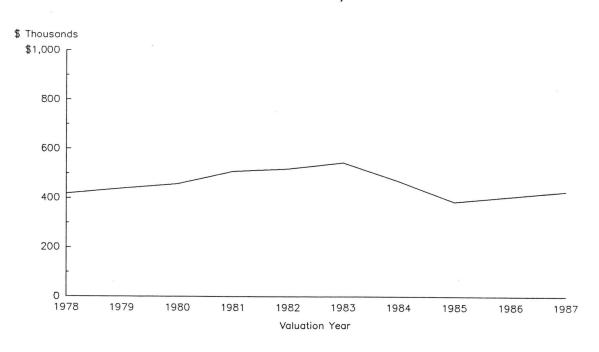
Service: 14.6 years.

Annual Pay: \$30,549.

# Virginia Police Relief Association Comparative Schedule Of Active Members

Valuation Date		Valuation		Averag	e	
December 31	Active Members	Payroll	Age	Service	Pay	% Incr.
1978	26	\$418,479	34.2 yrs.	8.3 yrs.	\$16,095	- %
1979	26	438,629	35.0	8.9	16,870	4.8
1980	24	456,790	36.6	9.6	19,033	12.8
1981	22	507,821	38.2	11.0	23,083	21.3
1982	21	518,012	39.2	12.5	24,667	6.9
1983	20	544,128	39.7	12.9	27,206	10.3
1984	17	469,699	40.9	14.2	27,629	1.6
1985	14	385,592	38.2	12.6	27,542	(0.3)
1986	14	406,161	39.2	13.6	29,012	5.3
1987	14	427,687	40.2	14.6	30,549	5.3

Valuation Payroll



#### Virginia Police Relief Association

Brief Summary (12/31/87) of Benefit Provisions Evaluated and/or Considered

#### Age & Service Retirement

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

Amount. 50% of the prevailing pay of the rank held for at least 6 months prior to retirement. For each year over 25, an additional 1/2% of pay used for retirement purposes is added to the benefit. (The additional benefit is not subject to the post retirement adjustment provisions.)

#### Disability Retirement.

<u>Eligibility</u>. Disabled to the extent that no longer able to perform duties of police officer.

Amount. Same as regular retirement benefit.

#### Member's Death While Active, Or In Deferred Status, Or Retired

#### Eligibility.

<u>Spouse</u>. Legally married to member at separation from service and residing with member at time of death. Benefits terminate upon remarriage.

Child. Younger than age 18.

#### Amount.

Spouse. 50% of regular retirement benefit.

Child. \$600 per child per year.

Maximum Family Benefit. Regular retirement benefit amount.

<u>Vested Deferred</u>. 20 years of service and separated before age 50. Payment beginning is deferred to attainment of age 50.

<u>Post-Retirement Adjustments ("Escalator")</u>. Each time prevailing pay is changed, retired member and surviving spouse benefits are simultaneously changed by the

same percent that prevailing pay changes. Adjustments are applicable only to those who retire after January 12, 1966, and are not applied to children's benefits.

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

Section C

Valuation Methods and Assumptions

## Virginia Police Relief Association 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, or attained age if older.

#### Mortality Table\*

Single Life Values:

Present Value of \$1 Monthly Future Life Level Increasing 3.5% Yearly Sample For Life Expectancy (Years) Ages Men Women Men Women Men Women 45 \$177.21 \$189.58 \$280.82 \$314.75 29.50 34.00 50 163.12 177.21 246.55 25.20 29.50 280.82 147.50 212.60 246.55 25.20 55 163.12 21.16 130.52 179.49 212.60 17.42 21.16 60 147.50 65 179.49 17.42 112.87 130.52 148.28 14.05 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

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

Sample	% of Active Members
Ages	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

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

#### Pay Adjustment Factor Used To Project Current Pays

Sample Ages	Present Pay Resulting in Pay of \$1,000 at Age 60	Present Increase in Pay During Next Year		
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		

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

#### Anticipated Disability Retirements

Sample	% of Active Members Becoming
Ages	_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 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, 1987. 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, and (c) the assumption that benefits will increase 3.5% per year after retirement.

At December 31, 1987, the unfunded pension benefit obligation was \$450,901, determined as follows:

#### Pension Benefit Obligation:

	Retirees and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$2,414,664
	Current employees	
	Accumulated employee contributions including allocated investment income	277,481
	Employer financed	1,216,651
	Total Pension Benefit Obligation	\$3,908,796
Net assets available for benefits, at market (market value was \$3,457,895)		3,457,895
	Unfunded Pension Benefit Obligation	\$ 450,901

The total pension benefit obligation as of January 1, 1987 was \$3,845,008. During the year, the plan experienced a net change of \$63,788 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 22 years.

During the year ended December 31, 1987 contributions totaling \$193,209 -- \$159,414 employer and \$33,795 employee -- were made in accordance with contribution requirements determined by an actuarial valuation of the plan as of December 31, 1985. The employer contributions consisted of \$59,960 for normal cost and \$99,454 for amortization of the unfunded actuarial accrued liability. Employer contributions represented 41.34% 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.

#### Computed Contribution Comparative Schedule

Fiscal Valuation Year Date		Normal Cost % of Valuation UAAL		Valuation	Dollar Contribution For Fiscal Year	
December 31	December 31	Payroll	Dollars	<u>Payroll</u>	Computed	Actual
1987 1988 1989	1985 1986 1987	15.55% 15.64 15.76	\$67,971 52,921 43,520	\$385,592 406,161 427,687	\$127,931 116,445 110,923	\$159,414

## REQUIRED SUPPLEMENTARY INFORMATION ANALYSIS OF FUNDING PROGRESS

(2)					(6)	
	(1)	Pension	(3)	(4)	(5)	Unfunded PBO
Valuation	Net Assets	Benefit	Percent	Unfunded	Annua1	as a Percentage
Date	Available	Obligation	Funded	PB0	Covered	of Covered Payroll
December 31	for Benefits	(PBO)	(1)/(2)	(2)-(1)	Payroll	(4)/(5)
1987	\$3 <b>,</b> 457 <b>,</b> 895	\$3,908,796	88.5%	\$450,901	\$427 <b>,</b> 687	105.4%

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

<u>Promises Made, and Eventually Paid</u>. 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. <u>Funding Method</u>. 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.

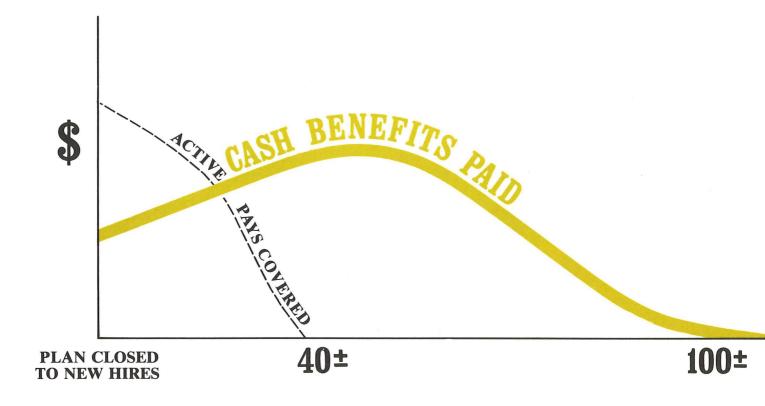
<u>Computing Contributions To Support Plan Benefits</u>. From a given schedule of benefits and from the employee data and asset data furnished him, the actuary determines the contribution rates to support the benefits by means of an actuarial valuation and a funding method.

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.