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Report of  
AN ACTUARIAL VALUATION  
December 31, 1983 of the  
Virginia Police Relief Association  
Virginia, Minnesota

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GABRIEL, ROEDER, SMITH & COMPANY  
CONSULTING ACTUARIES

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Report of  
AN ACTUARIAL VALUATION  
December 31, 1983 of the  
Virginia Police Relief Association  
Virginia, Minnesota

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GABRIEL, ROEDER, SMITH & COMPANY  
ACTUARIES & CONSULTANTS  
2090 First National Building  
Detroit, Michigan 48226  
Area 313: 961-3346

April 26, 1984

Board of Trustees  
Virginia Police Relief Association  
Virginia, Minnesota

Submitted in this report are the results of the December 31, 1983 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, 1985. 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.

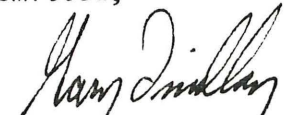
A description of the actuarial funding method and the risk experience assumptions used is contained in Section C. The economic risk experience assumptions, as well as the actuarial funding method to be used, are established by state law.

Information needed to comply with Statement of Financial Accounting Standards 35 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,

  
Ronald J. W. Smith

  
Gary W. Findlay



SECTION A  
RESULTS OF THE VALUATION

## 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 accrued liability by December 31, 2010.

Over the past few years, both the actual rates of salary increase and investment return have generally exceeded the assumed rates, resulting in increases in the dollar amount of unfunded accrued liabilities. If the financial experiences of recent years persist, and the economic assumptions and financing method are not changed, it is reasonable to expect that unfunded accrued liabilities will increase in actual dollar amount for a number of years. This is true even though a level dollar amortization schedule is being followed. Accordingly, it is reasonable to expect that under the described conditions the actual dollar contributions required to make amortization payments will increase for a number of years. On the other hand, if inflation subsides and actual economic activity approaches assumed experience, it is reasonable to expect the dollar amount of the contribution to amortize the unfunded accrued liability to remain relatively constant. The notion that amortization dollar amounts may be increasing is not necessarily cause for alarm. If adjusted for changes in purchasing power, any future increases in the dollar contributions may or may not reflect increases in terms of real dollars (inflation adjusted dollars).

It is also worth noting that when the same assumptions and methods are applied to plans which differ in nature, the valuation results may not be comparable (for example, it is currently not valid to compare valuation results for a plan having full escalation to valuation results for a plan having a 3 1/2% cap on escalation). 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.

### Change in Non-Economic Assumptions

The results of the recent four year experience studies we completed for 49 Minnesota Police and Fire Relief Associations demonstrated a need to change actuarial assumptions regarding (i) pre and post-retirement mortality and (ii) rates of withdrawal from active service for reasons other than retirement, death and disability.

The contribution rate presented in this report was determined using revised assumptions. The new assumptions for mortality and withdrawal are shown on page C-1.

This change in assumptions increased the normal cost rate 2.06% of payroll and increased the amortization payment by \$16,507. The increase in the unfunded actuarial accrued liability (deficit) due to these assumption changes was \$243,165.

Virginia Police Relief Association  
 CONTRIBUTION RATE TO PROVIDE BENEFITS  
 Member portion & Employer portion  
 Effective January 1, 1985

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Contributions for	If Paid Equally Throughout Year		
	Normal Cost % of Active Payroll for 1985	+	U.A.L. Dollars
Normal cost of annuities:			\$95,100
Age & service: to members	16.63%		
Age & service: to survivors	3.26		
Disability	3.24		
Death before retirement	1.98		
Refunds of member contributions	0.27		
Total Normal Cost	<u>25.38</u>		
Amortization of unfunded accrued liabilities (UAL) (26 year level dollar payment)			
Retired lives			\$ 0
Active members			<u>95,100</u>
Total			<u>95,100</u>
Total Cost of Benefits	25.38%	+	\$95,100
Member contributions	8.00		
COMPUTED EMPLOYER RATE:			
(a) If Paid Equally Throughout Year	17.38%	+	\$95,100
(b) IF PAID AT CALENDAR YEAR END	17.81%	+	\$97,449



# Virginia Police Relief Association

## Present Actuarial Condition

The Association accrued actuarial assets were in excess of \$2.2 million on December 31, 1983 -- a considerable sum of money if unencumbered and allocated among a small group of persons. This is not the case with Association assets.

The following schedule puts the \$2.2 million into perspective by showing the relationship between accrued assets, accrued liabilities, and the number of persons with actual and potential claims on the Association's assets.

	<u>Accrued Actuarial Assets</u>	<u>Accrued Liabilities</u>	<u>Unfunded Accrued Liabilities</u>	<u>% Funded</u>
Retirants and Beneficiaries				
Retired Members (8)		\$1,193,697		
Surviving Spouses (8)		367,822		
Surviving Children (0)		<u>0</u>		
Total (16)	\$1,561,519	\$1,561,519	\$ 0	100.0%
Deferred Members (0)	0	0	0	
Active Members (20)	<u>643,732</u>	<u>2,044,706</u>	<u>1,400,974</u>	31.5
Total	\$2,205,251	\$3,606,225	\$1,400,974	61.1%

Accrued liabilities represent the value, computed as of December 31, 1983 of:

- (i) retirement allowances likely to be paid the 16 retirants and beneficiaries; and
- (ii) the contributions assumed to have been made for the 20 active members from their entry into the plan until December 31, 1983.

To illustrate, the value of retirement allowances likely to be paid the 16 retirants and beneficiaries, discounted for investment earnings and mortality, was computed to be \$1,561,519 as of December 31, 1983. This means that if the 16 retirants and beneficiaries live and die according to the assumed mortality and if the \$1,561,519 can be invested to yield an average annual return of 5.0 percent over the remaining lifetimes of the 16 retirants and beneficiaries, then the \$1,561,519 together with investment earnings thereon will just be sufficient to pay the 16 retirants and beneficiaries their allowances for their remaining lifetimes.

With respect to active members, the accrued liability of \$2,044,706 represents the amount that would have been accumulated by December 31, 1983 if the normal cost (which is expressed as a level percentage of pay) had been contributed from the date of hire until December 31, 1983 for each of the 20 actives, if these amounts had earned 5.0% interest and if 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)

<u>Valuation Date December 31</u>	<u>Accrued Liabilities</u>	<u>Accrued Assets</u>	<u>Percent Funded</u>
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
After change in assumptions	3,606	2,205	61.1

Virginia Police Relief Association  
 Computed Contributions - Comparative Schedule

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Year Ended December 31		Total Normal Cost as a Percent of Valuation Payroll*	Contribution For Unfunded Accrued Liabilities - \$ or %
Valuation	Fiscal		
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
After change in assumptions		25.38	95,100

\* Includes employee contributions.



Virginia Police Relief Association  
CONTRIBUTION FOR CALENDAR YEAR EFFECTIVE JANUARY 1, 1985

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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 upon 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 1985   | \$ _____      |               |
| (2) Total normal cost % from page A-2  | <u>25.38%</u> |               |
| (3) Total normal cost (Line 1 times line 2)  |               | \$ _____      |
| (4) Amortization payment on UAL from page A-2  |               | <u>95,100</u> |
| (5) Total contributions required (Line 3 plus line 4)  |               | _____         |
| (6) Employee contributions (Line 1 times 8%)   | \$ _____      |               |
| (7) State amortization aid based on<br>12/31/78 UAL of \$1,045,949   | <u>15,742</u> |               |
| (8) Estimated insurance premium aid  | _____         |               |
| (9) Estimated total contributions from<br>other sources (Line 6 plus line 7 plus line 8)                                     |               | _____         |
| (10) Employer's Minimum Obligation if payment is made<br>in equal installments throughout the year.<br>(Line 5 minus line 9) |               | \$ _____      |
| (11) EMPLOYER'S MINIMUM OBLIGATION IF PAYMENT IS MADE<br>AT YEAR END (Line 10 times 1.0247)                                  |               | \$ _____      |

SECTION B  
VALUATION DATA  
AND  
SUMMARY OF BENEFIT PROVISIONS

Virginia Police Relief Association  
Retirants and Beneficiaries December 31, 1983  
By Type of Annuity Being Paid

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<u>Type of Annuity Being Paid</u>	<u>No.</u>	<u>Monthly Amounts</u>	<u>Computed Accrued Liabilities</u>
Retirants receiving:			
Age & Service	8	\$6,061.81	\$1,193,697
Disability	—	—	—
Totals	8	6,061.81	1,193,697
Beneficiaries receiving:			
Spouse	8	2,663.53	367,822
Child	—	—	—
Totals	8	2,663.53	367,822
Totals	16	\$8,725.34	\$1,561,519

Inactive Members Eligible for Deferred Benefits  
December 31, 1983

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<u>No.</u>	<u>Monthly Amount</u>	<u>Computed Accrued Liabilities</u>
0	\$0	\$0



Virginia Police Relief Association  
Retirants and Beneficiaries December 31, 1983  
By Attained Ages

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Attained Ages	Number		
	Age & Service Retirants	Disability	Death Before Retirement
50-54	1		
55-59	2		
60-64	2		
65-69		1	
70-74	3		
75-79	4		
80-84	<u>3</u>	<u>      </u>	
Totals	15	1	

Virginia Police Relief Association  
Retirants and Beneficiaries Added to and Removed from Rolls  
Comparative Statement

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Valuation Date December 31	No. Added to Rolls	No. Removed from Rolls	Rolls End of Year		% Incr. in Annual Allowances	Average Allowances	Discounted Value of Allowances	
			No.	Annual Allowances			Total	Average
1978			18	\$ 70,911	- %	\$3,940	\$ 968,929	\$53,829
1979	1	2	17	69,640	(2.0)	4,096	924,986	54,411
1980			17	74,379	6.8	4,375	960,671	56,510
1981	1	1	17	86,085	15.7	5,064	981,184	57,717
1982			17	98,273	14.2	5,781	1,060,993	62,411
1983	3	4	16	104,704	6.5	6,544	1,561,519	97,595

Virginia Police Relief Association  
Active Members December 31, 1983  
By Attained Age and Years of Service

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Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
20-24	1							1	\$ 26,648
25-29	3							3	78,321
30-34	1	5						6	159,347
35-39			1	1				2	54,378
40-44			1	1				2	54,378
45-49						1		1	27,189
50-54					1			1	28,309
55-59			1		2			3	80,948
63							1	1	34,610
Totals	5	5	3	2	3	1	1	20	\$544,128

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

Age: 39.7 years.

Service: 12.9 years.

Annual Pay: \$27,206.



Virginia Police Relief Association  
Comparative Schedule  
Of Active Members

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<u>Valuation Date December 31</u>	<u>Active Members</u>	<u>Valuation Payroll</u>	<u>Age</u>	<u>Average Service</u>	<u>Pay</u>	<u>% Incr.</u>
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

## Virginia Police Relief Association

### Brief Summary (12/31/83) of Benefit Provisions Evaluated and/or Considered

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#### 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.

Eligibility. 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.

Spouse. 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.

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

Post Retirement Adjustments ("Escalator"). 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) used in making the valuation was 5.0 percent per annum, compounded annually. State law requires use of this assumption.

The mortality table used was the UP-1984 Table set forward 2 years for males and set back 3 years for females.

Sample Ages	Single Life Values: Present Value of \$1 Monthly				Future Life Expectancy (Years)	
	Level		Increasing			
	For Life		3.5% Yearly		Men	Women
	Men	Women	Men	Women		
45	\$177.21	\$189.58	\$286.32	\$314.75	29.50	34.00
50	163.12	177.21	252.05	280.82	25.20	29.50
55	147.50	163.12	218.10	246.55	21.16	25.20
60	130.52	147.50	184.99	212.60	17.42	21.16
65	112.87	130.52	153.78	179.49	14.05	17.42
70	95.20	112.87	125.20	148.28	11.09	14.05
75	77.77	95.20	99.33	119.70	8.52	11.09
80	61.71	77.77	77.19	93.83	6.39	8.52

Age & service retirement was assumed to occur at age 58, or attained age if older.

Sample Rates of Separation 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 Pay Adjustment Factor used to Project Current Pays

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<u>Sample Ages</u>	<u>Present Pay Resulting in Pay of \$1,000 at Age 60</u>	<u>Percent Increase in Pay 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

Disability retirements were assumed to occur as indicated below:

<u>Sample Ages</u>	<u>% of Active Members Becoming Disabled Within Next Year</u>
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  
ACCUMULATED PLAN BENEFITS

Virginia Police Relief Association  
Statement of the Present Value of Accumulated Plan Benefits  
December 31, 1983

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Actuarial Present Value of  
Accumulated Plan Benefits

Vested Benefits:

Participants currently receiving payments	\$1,554,852
Other participants	<u>1,017,413</u>
Total Vested Benefits	2,572,265

Non-Vested Benefits	501,318
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Total Actuarial Present Value of Accumulated Plan Benefits	<u><u>\$3,073,583</u></u>
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The actuarial present value of accumulated plan benefits as of January 1, 1983 was \$2,530,338. During the year, the plan experienced a net increase of \$543,245 in the actuarial present value of plan benefits. Of that increase, \$109,824 was attributable to changes in actuarial assumptions for determination of this value.

The accompanying notes are an integral part of the Statement of the Present Value of Accumulated Plan Benefits.

1. The actuarial present value of accumulated plan benefits presented in this statement was determined using the following assumptions:
  - a. Future salary increases prior to retirement were not considered for active members.
  - b. Future service was considered only to the extent that it would permit active plan participants to become eligible for benefits attributable to service rendered prior to the date of determination.
  - c. Regular valuation assumptions were used as to mortality, withdrawal, retirement ages, and disability.
  - d. Investment return was assumed to be at the rate of 8% compounded annually.
  - e. Salary increase related post retirement benefit adjustments were assumed to be at the rate of 6 1/2% compounded annually unless a lower rate is specified by law.
2. The calculation of the actuarial present value of accumulated plan benefits was made because of the requirements of the Financial Accounting Standards Board. Comparison of this value with plan assets is not indicative of the future ability of the plan to pay benefits when due or of their security in a termination situation.

Calculation of contribution requirements and related benefit value information in a "going concern" environment according to the principles of level cost financing is made by the annual actuarial valuations. The results of the contribution rate calculations cannot be simply replaced by the accumulated plan benefit results. To do so will mislead.



## APPENDICES

## APPENDIX I

### FINANCIAL PRINCIPLES AND OPERATIONAL TECHNIQUES

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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 cover active members is decreasing.

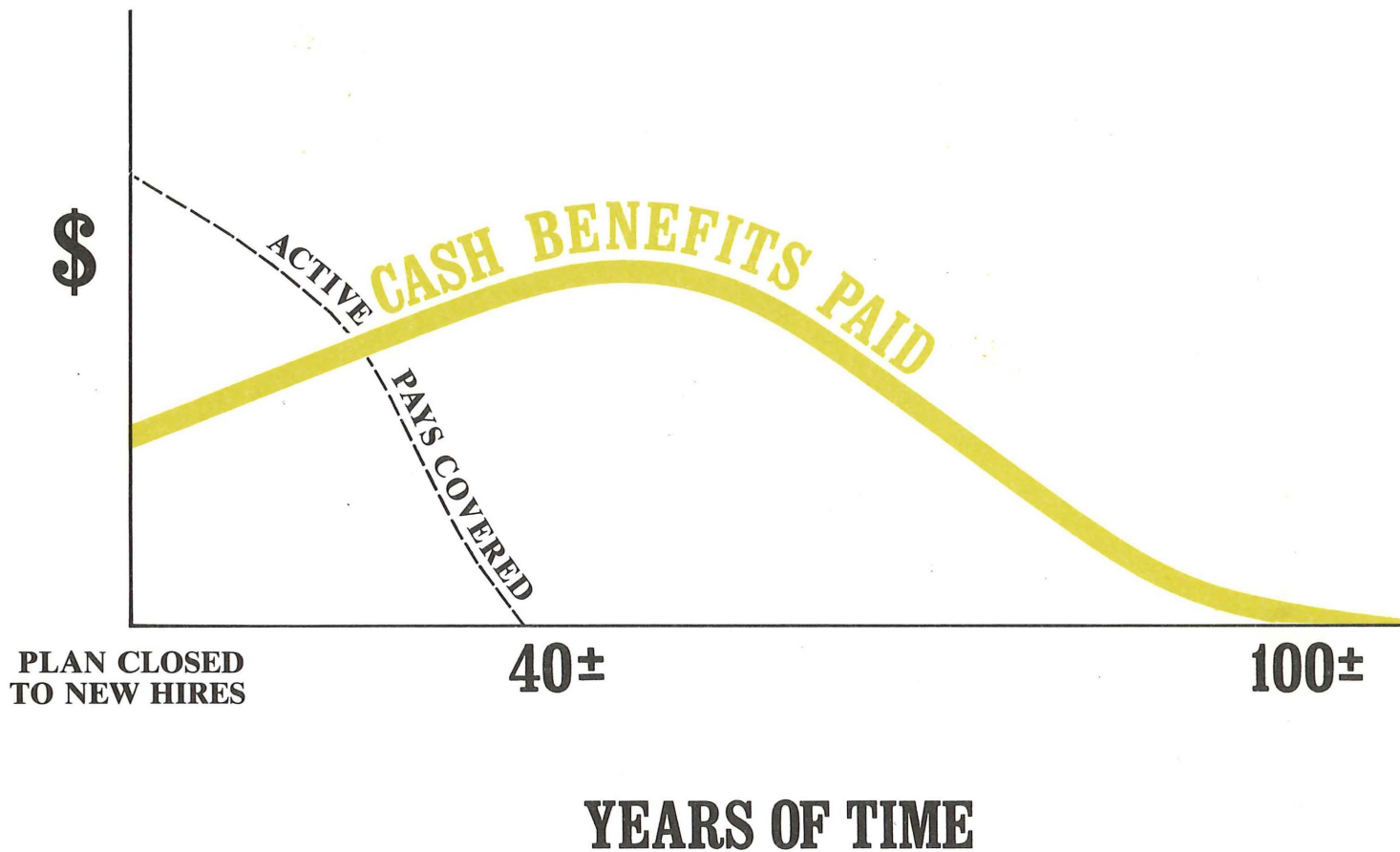
A preferred funding method for a closed plan consists of: level-percent funding for normal cost (the cost of members' service now being rendered); plus a level dollar contribution for unfunded accrued liabilities over a limited period of years. The period of years must be limited so that plan assets 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



A plan becomes closed 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.