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Albert Lea  
Police Relief Association

Annual Actuarial Valuation  
December 31, 1987

Gabriel, Roeder, Smith & Company  
Actuaries & Consultants

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June 7, 1988

Board of Trustees  
Albert Lea Police Relief Association  
Albert Lea, 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 Albert Lea 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

  
Gary W. Findlay

**Section A**

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**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.

Albert Lea Police Relief Association  
 CONTRIBUTION RATE TO PROVIDE BENEFITS  
 Member portion & Employer portion  
 Effective January 1, 1989

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Contributions for	If Paid Equally Throughout Year Normal Cost % of Active Payroll for 1989	+	UAAL Dollars
Normal cost of annuities:			
Age & service: to members	15.80%		
Age & service: to survivors	3.79		
Disability	2.87		
Death before retirement	2.66		
Refunds of member contributions	0.14		
Total Normal Cost	25.26%		
Amortization of unfunded actuarial accrued liabilities (UAAL) (22 year level dollar payment)			
Retired lives			\$ 26,918
Active members			152,522
Total			179,440
Total Cost of Benefits	25.26%	+	\$179,440
Member contributions	8.00%		
COMPUTED EMPLOYER RATE:			
(a) If Paid Equally Throughout Year	17.26%	+	\$179,440
(b) IF PAID AT CALENDAR YEAR END	17.69%	+	\$183,871

Albert Lea Police Relief Association  
 Present Actuarial Condition

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The Association's accrued actuarial assets were in excess of \$4.1 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 \$4.1 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.

	<u>Accrued Actuarial Assets</u>	<u>Actuarial Accrued Liabilities</u>	<u>Unfunded Actuarial Accrued Liabilities</u>	<u>% Funded</u>
Retirants and Beneficiaries				
Retired Members (15)		\$3,728,088		
Surviving Spouses (6)		389,832		
Surviving Children (0)		<u>0</u>		
Total (21)	\$3,760,274	\$4,117,920	\$ 357,646	91.3%
Deferred Members (1)	57,496	62,964	5,468	91.3
Active Members (17)	<u>353,399</u>	<u>2,410,834</u>	<u>2,057,435</u>	14.7
Total	\$4,171,169	\$6,591,718	\$2,420,549	63.3%

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

- (i) retirement allowances likely to be paid the 21 retirants and beneficiaries; and
- (ii) the contributions assumed to have been made for the 17 active members from entry into the plan until December 31, 1987.

The value of retirement allowances likely to be paid the 21 retirants and beneficiaries, discounted for investment earnings and mortality, was computed to be \$4,117,920 as of December 31, 1987. To put this amount in perspective, the \$4,117,920, together with investment earnings, will just be sufficient to pay the 21 retirants and beneficiaries their allowances for their remaining lifetimes. This assumes the 21 retirants and beneficiaries live and die according to the assumed mortality and the \$4,117,920 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 \$2,410,834 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 17 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)

<u>Valuation Date December 31</u>	<u>Actuarial Accrued Liabilities</u>	<u>Accrued Actuarial Assets</u>	<u>Percent Funded</u>
1978	\$2,269	\$ 854	37.6%
1979	N/A	N/A	N/A
1980	3,116	1,248	40.0
1981	3,666	1,512	41.3
1982	4,040	1,792	44.4
1983	4,486	2,065	46.0
1983*	4,738	2,065	43.6
1984	4,980	2,610	52.4
1985	5,339	3,231	60.5
1986	6,243	3,759	60.2
1987	6,592	4,171	63.3

\* After change in assumptions.

Albert Lea 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 Actuarial Accrued Liabilities \$ or %
Valuation	Fiscal		
1978	1980	23.51%	\$ 69,054
1979	1981	N/A	N/A
1980	1982	24.68	120,429
1981	1983	24.33	141,081
1982	1984	24.43	149,833
1983	1985	24.59	164,397
1983	1985**	26.38	181,473
1984	1986	26.30	164,031
1985	1987	25.68	149,071
1986	1988	25.18	179,735
1987	1989	25.26	179,440

\* Includes employee contributions.

\*\* After change in assumptions.

Albert Lea Police Relief Association  
 CONTRIBUTION FOR CALENDAR YEAR EFFECTIVE JANUARY 1, 1989

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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 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	25.26%	
(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		179,440
(6)	Total contributions required (Line 3 plus line 4 plus line 5)		_____
(7)	Employee contributions (Line 1 times 8%)	\$ _____	
(8)	(a) State amortization aid based on 12/31/78 UAAL of \$1,415,178	\$21,298	
	(b) State amortization aid based on 1984 legislation	<u>4,299</u>	
	(c) Total State amortization aid		25,597
(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**

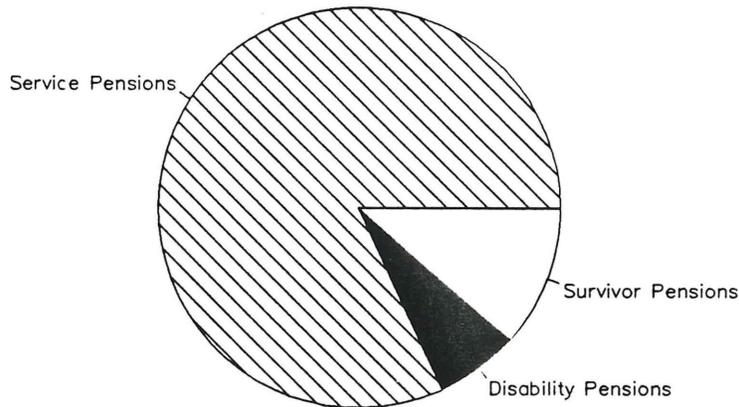
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**Valuation Data  
and  
Summary of Benefit Provisions**

Albert Lea Police Relief Association  
 Retirants and Beneficiaries December 31, 1987  
 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 Actuarial Accrued Liabilities</u>
Retirants receiving:			
Age & Service	14	\$14,562.97	\$3,412,272
Disability	<u>1</u>	<u>1,208.66</u>	<u>315,816</u>
Totals	15	15,771.63	3,728,088
Beneficiaries receiving:			
Spouse	6	2,030.14	389,832
Child	<u>0</u>	<u>0.00</u>	<u>0</u>
Totals	6	2,030.14	389,832
Totals	21	\$17,801.77	\$4,117,920



Monthly Amount Paid by Benefit

Albert Lea Police Relief Association  
Inactive Members Eligible for Deferred Benefits  
December 31, 1987

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<u>No.</u>	<u>Monthly Amount</u>	<u>Computed Actuarial Accrued Liabilities</u>
1	\$604.33	\$62,964

Albert Lea Police Relief Association  
 Retirants and Beneficiaries December 31, 1987  
 By Attained Ages

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Attained Ages	Number		
	Age & Service	Disability	Death Before Retirement
45-49		1	1
50-54	7		
55-59	1		
60-64	4		
65-69	2	1	
70-74	2		
75-79			1
85-89	—	—	<u>1</u>
Totals	16	2	3

Albert Lea Police Relief Association  
 Active Members December 31, 1987  
 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
30-34		2						2	\$ 62,689
35-39		1	2					3	96,370
40-44			4	1	1			6	189,106
45-49					5			5	171,981
55-59					1			1	29,008
Totals		3	6	1	7			17	\$549,154

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

Age: 42.0 years.

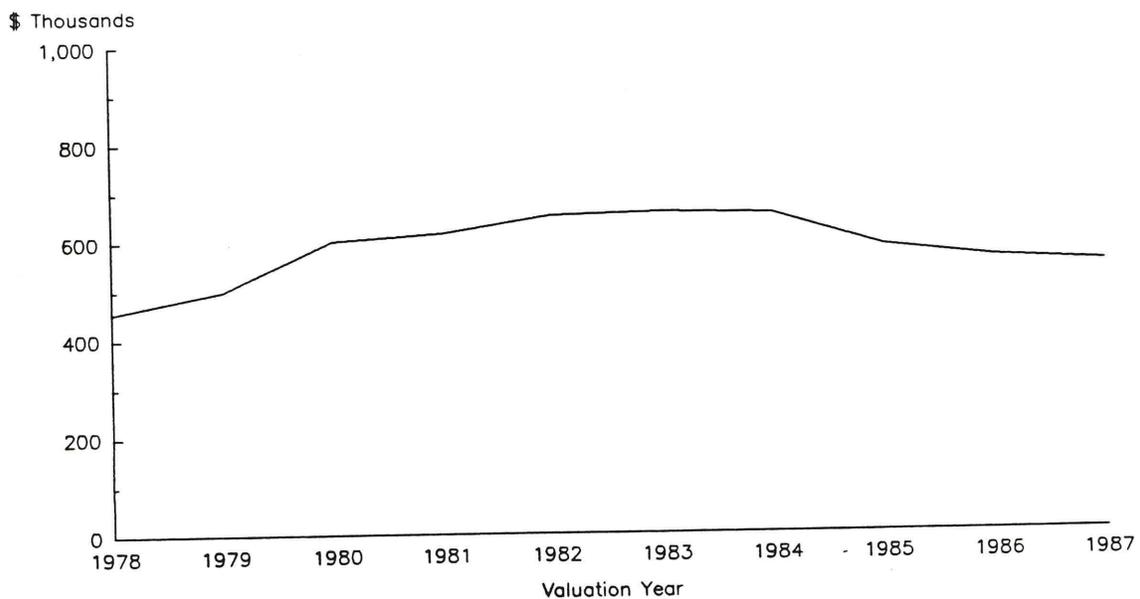
Service: 16.1 years.

Annual Pay: \$32,303.

Albert Lea Police Relief Association  
 Comparative Schedule  
 Of Active Members

Valuation Date December 31	Active Members	Valuation Payroll	Average			
			Age	Service	Pay	% Incr.
1978	27	\$454,764	36.9 yrs.	10.6 yrs.	\$16,843	- %
1979	27	498,599	37.0	10.6	18,466	9.6
1980	29	601,115	37.2	10.9	20,728	12.2
1981	27	615,647	38.3	12.0	22,802	10.0
1982	26	650,452	39.7	13.3	25,017	9.7
1983	25	657,296	40.5	14.0	26,292	5.1
1984	24	653,670	42.0	15.4	27,236	3.6
1985	21	585,698	41.4	15.1	27,890	2.4
1986	18	561,320	41.4	15.5	31,184	11.8
1987	17	549,154	42.0	16.1	32,303	3.6

Valuation Payroll



Albert Lea Police Relief Association

Brief Summary (12/31/87) 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 final compensation.

Disability Retirement

Eligibility. Disabled to the extent that cannot perform duties of police officer for period exceeding 30 days, prior to being eligible for age and service retirement.

Amount. Same as regular 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. Benefits terminate upon remarriage.

Child. Younger than age 18.

Amount.

Spouse. 30% of final compensation.

Child. 10% of final compensation per child. Children's maximum is 20% if spouse is receiving or 50% if no spouse is receiving.

Vested Deferred.

-20 or more years service and separated before age 50. Benefit beginning is deferred to attainment of age 50.

-10 or more years service but less than 20 years service and separated before age 57. Benefit of 2-1/2% of final compensation times years service is deferred to attainment of age 57.

Post-Retirement Adjustment ("Escalator"). Percentage applied to final compensation to determine benefit (retirant, 50%; surviving spouse, 30%; child, 10%) is applied to changes in pay of top grade patrolman to determine amount of adjustment.

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

**Section C**

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**Valuation Methods and Assumptions**

Albert Lea Police Relief Association

Valuation Methods and Assumptions

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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\*

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Sample Ages	Single Life Values: Present Value of \$1 Monthly				Future Life Expectancy (Years)	
	Level		Increasing		Men	Women
	For Life		3.5% Yearly			
	Men	Women	Men	Women		
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

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

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

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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

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>Present 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

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

Anticipated Disability Retirements

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<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**

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

## PENSION BENEFIT OBLIGATION

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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 not increase after retirement.

At December 31, 1987, the unfunded pension benefit obligation was \$2,285,905, determined as follows:

Pension Benefit Obligation:

Retirees and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$4,180,884
Current employees --	
Accumulated employee contributions including allocated investment income	353,399
Employer financed	<u>1,912,908</u>
Total Pension Benefit Obligation	\$6,447,191
Net assets available for benefits, at cost (market value was \$4,190,935)	<u>4,161,286</u>
Unfunded Pension Benefit Obligation	\$2,285,905

The total pension benefit obligation as of January 1, 1987 was \$6,097,182. During the year ended December 31, 1987, the plan experienced a net change of \$350,009 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 \$313,858 -- \$270,518 employer and \$43,340 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 \$103,551 for normal cost and \$166,967 for amortization of the unfunded actuarial accrued liability. Employer contributions represented 46.19% 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 Year <u>December 31</u>	Valuation Date <u>December 31</u>	<u>Contribution Rates</u>			<u>Dollar Contribution</u> <u>For Fiscal Year</u>	
		<u>Normal Cost</u> <u>% of Valuation</u> <u>Payroll</u>	<u>UAAL</u> <u>Dollars</u>	<u>Valuation</u> <u>Payroll</u>	<u>Computed</u>	<u>Actual</u>
1987	1985	17.68%	\$149,071	\$585,698	\$252,622	\$270,518
1988	1986	17.18	179,735	561,320	276,170	
1989	1987	17.26	179,440	549,154	274,224	

REQUIRED SUPPLEMENTARY INFORMATION

ANALYSIS OF FUNDING PROGRESS

Valuation Date December 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	(6) Unfunded PBO as a Percentage of Covered Payroll (4)/(5)
1987	\$4,161,286	\$6,447,191	64.5%	\$2,285,905	\$549,154	416.3%

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**

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## 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 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.

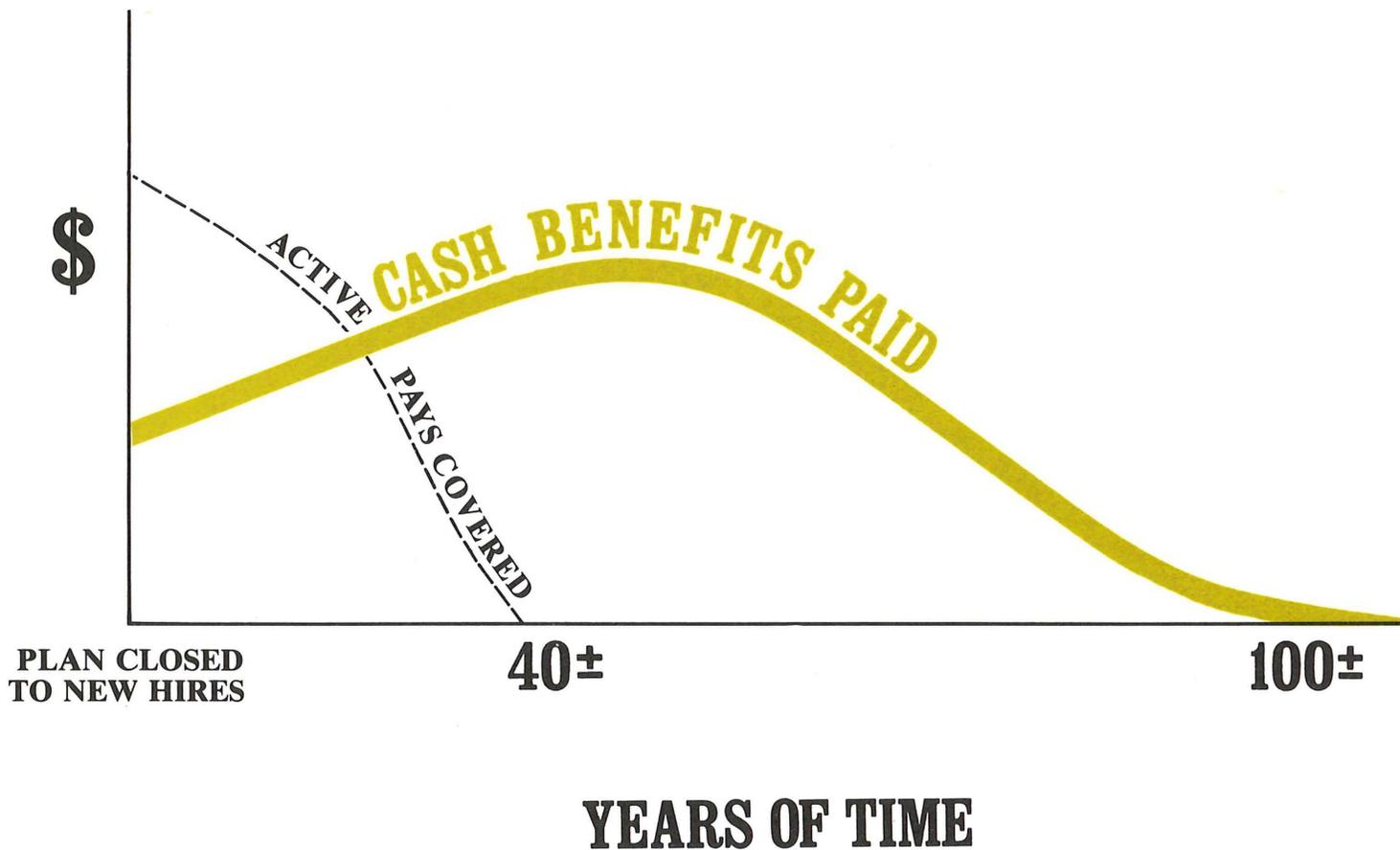
Computing Contributions To Support Plan Benefits. From a given schedule of benefits and from the employee data and asset data furnished him, the actuary determines the contribution rates to support the benefits by means of an actuarial valuation and a funding method.

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



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

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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.