

## Crookston Fire Department Relief Association

**Annual Actuarial Valuation** 

**December 31, 1988** 

645 State Office Building Safat Paul, Minnesota 55155

Gabriel, Roeder, Smith & Company
Actuaries and Consultants

HD 7116 .F52 C76a 1988

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May 5, 1989

Board of Trustees Crookston Fire Department Relief Association Crookston, Minnesota

Submitted in this report are the results of the December 31, 1988 actuarial valuation of the assets, actuarial values and contribution requirements associated with the benefits provided by the Crookston Fire Department Relief Association.

The valuation results contained in Section A provide the actuarial information needed to determine the employer's "minimum obligation" effective January 1. 1990. 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

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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.

#### Status of Plan

The City Council of Crookston, Minnesota passed a resolution to retain the Crookston Fire Department Relief Association as an open plan. An open plan continues to admit new-hires to its membership.

#### Crookston Fire Department Relief Association

#### CONTRIBUTION RATE TO PROVIDE BENEFITS

#### Member portion & Employer portion Effective January 1, 1990

	<u>If Paid Equally</u> Normal Cost	Thre	oughout Year
Contributions for	% of Active Payroll for 1990	+	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	12.47% 1.80 2.74 1.91 <u>0.17</u> 19.09%		
Amortization of unfunded actuarial accrued liabilities (UAAL) (21 year level dollar payroll)			
Retired lives Active members Total			$ \begin{array}{c}     0 \\     10,237 \\     10,237 \end{array} $
Total Cost of Benefits	19.09%	+	\$10,237
Member contributions	8.00%		
COMPUTED EMPLOYER RATE:			
<ul><li>(a) If Paid Equally Throughout Year</li><li>(b) IF PAID AS OUTLINED BELOW</li></ul>	11.09% 11.36%	++	\$10,237 \$10,490

## Crookston Fire Department Relief Association Present Actuarial Condition

The Association's accrued actuarial assets were in excess of \$720 thousand on December 31, 1988 -- 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 \$720 thousand 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 <u>Liabilities</u>	Unfunded Actuarial Accrued <u>Liabilities</u>	% <u>Funded</u>
Retirants and Beneficiaries Retired Members (11) Surviving Spouses (3) Surviving Children (0)		\$305,364 79,920 0		
Total (14)	\$385,284	\$385,284	\$ 0	100.0%
Deferred Members (1)	6,840	6,840	0	100.0
Active Members (34)	328,607	463,107	134,500	71.0
Total	\$720,731	\$855,231	\$134,500	84.3%

Actuarial accrued liabilities represent the value, computed as of December 31, 1988 of:

- (i) retirement allowances likely to be paid the 14 retirants and beneficiaries; and
- (ii) the contributions assumed to have been made for the 34 active members from entry into the plan until December 31, 1988.

The value of retirement allowances likely to be paid the 14 retirants and beneficiaries, discounted for investment earnings and mortality, was computed to be \$385,284 as of December 31, 1988. To put this amount in perspective, the \$385,284, together with investment earnings, will just be sufficient to pay the 14 retirants and beneficiaries their allowances for their remaining lifetimes. This assumes the 14 retirants and beneficiaries live and die according to the assumed mortality, the \$385,284 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 \$463,107 represents the amount that would have been accumulated by December 31, 1988. 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, 1988 for the 34 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 thous	sands)	

	•	•	
Valuation Date <u>December 31</u>	Actuarial Accrued <u>Liabilities</u>	Accrued Actuarial Assets	Percent <u>Funded</u>
1979	\$N/A	\$N/A	N/A%
1980	416	363	87.3
1981	450	403	89.6
1982	475	474	99.9
1983*	879	512	58.2
1983*#	953	512	53.7
1984	958	557	58.1
1985	774	602	77.7
1986	812	633	78.0
1987	839	678	80.9
1988	855	721	84.3

<sup>\*</sup> After plan amendments.

<sup>#</sup> After change in assumptions.

## Crookston Fire Department Relief Association Computed Contributions - Comparative Schedule

Year En <u>Decembe</u> <u>Valuation</u>	r 31	Total Normal Cost as a Percent of Valuation Payroll*	Contribution For Unfunded Actuarial Accrued Liabilities or %
1979	1981	N/A%	\$ N/A
1980	1982	18.32	3,390
1981	1983	N/A	N/A
1982	1984	18.33	32
1983	1985#	24.70	24,934
1983	1985**#	26.75	29,912
1984	1986	26.14	27,791
1985	1987	18.93	12,207
1986	1988	18.93	12,932
1987	1989	18.77	11,911
1988	1990	19.09	10,237

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

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

<sup>#</sup> After changes in benefit provisions.

## Crookston Fire Department Relief Association CONTRIBUTION FOR CALENDAR YEAR EFFECTIVE JANUARY 1, 1990

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 1990		\$	
(2)	Total normal cost % from page A-2		19.09%	
(3)	Total normal cost (Line 1 times line 2)			\$
(4)	x 1.035 1988 Administrative expenses paid from the Special Fund			
(5)	Amortization payment on UAAL from page A-2			10,237
(6)	Total contributions required (Line 3 plus line 4 plus line 5)			
(7)	Employee contributions (Line 1 times 8%)		\$	
(8)	State amortization aid	\$ <u> </u>		
(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 IN TWO EQUAL INSTALLMENTS, JULY 30 & DECEMBER 30 (Line 11 times 1.0247)			\$

<sup>\*</sup> See Comment on page A-1 "Status of Plan".

#### **SECTION B**

## Valuation Data and Summary of Benefit Provisions

# Crookston Fire Department Relief Association Full-Time Firemen Retirants and Beneficiaries December 31, 1988 By Type of Annuity Being Paid

Type of Annuity Being Paid	<u>No.</u>	Monthly Amounts	Computed Actuarial Accrued <u>Liabilities</u>
Retirants receiving: Age & Service Disability	3 _0	\$2,335.38 0.00	\$250,848 0
Totals	3	2,335.38	250,848
Beneficiaries receiving: Spouse Child	3 _0	900.00	79,920 0
Totals	3	900.00	79,920
Totals	6	\$3,235.38	\$330,768

Crookston Fire Department Relief Association

Volunteers

Retirants and Beneficiaries December 31, 1988

By Type of Annuity Being Paid

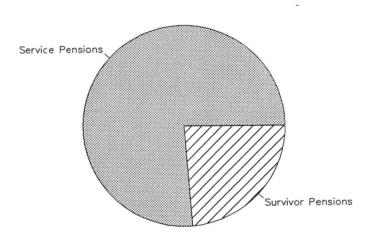
Type of Annuity Being Paid	No.	Monthly <u>Amounts</u>	Computed Actuarial Accrued Liabilities
Retirants receiving: Age & Service Disability	8 _0	\$550.00 0.00	\$54,516 0
Totals	8	550.00	54,516
Beneficiaries receiving: Spouse Child	0 _0	0.00 	0 0
Totals	0	0.00	0
Totals	8	\$550.00	\$54,516

# Crookston Fire Department Relief Association Volunteers Inactive Members Eligible for Deferred Benefits December 31, 1988

	Monthly	Computed Actuarial
No.	Monthly Amount	Accrued Liabilities
1	\$50.00	\$6.840

Crookston Fire Department Relief Association
Retirants and Beneficiaries December 31, 1988
By Attained Ages

	Number			
Attained Ages	Age & <u>Service</u>	<u>Disability</u>	Death Before <u>Retirement</u>	
65-69 70-74 75-79	7 3 3			
80-84	_1	_		
Totals	14	0	0	



Monthly Amount Paid by Benefit

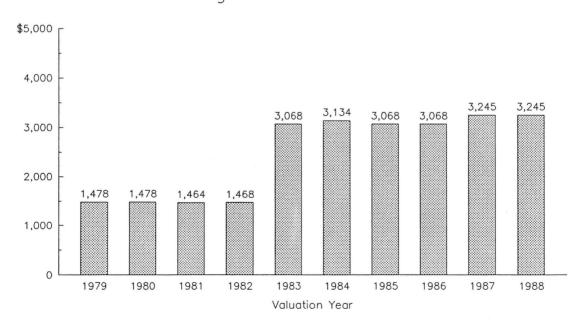
Crookston Fire Department Relief Association

Retirants and Beneficiaries Added to and Removed from Rolls

Comparative Statement

Valuation Date <u>December 31</u>	No. Added	No. Removed from Rolls	<u>Rolls</u> <u>No.</u>	End of Year Annual Allowances	Discounted Value of Total Allowances
1979	2	1	17	\$25,128	\$246,398
1980			17	25,128	238,943
1981	1	1	17	24,888	229,541
1982	1	1	17	24,948	223,791
1983	2	4	15	46,025*	589,907*
1984			15	47,005	554,560
1985			15	46,025	428,376
1986			15	46,025	414,720
1987		1	14	45,425	398,784
1988			14	45,425	385,284

#### Average Annual Allowances



Full-Time Firemen

Active Members December 31, 1988

By Attained Age and Years of Service

								Totals
Attained						on Date		Valuation
Age	0-4	_5-9_	<u>10-14</u>	15-19	20-24	<u>25-29</u> <u>30 Plus</u>	<u>No.</u>	Payroll
30-34		2					2	\$ 45,848
		_					_	Ψ,
40-44		1	2				3	70,844
45-49				1			1	23,885
50-54		1		1			2	52,446
	æ							
	-							
Totals		4	2	2			8	\$193,023

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

Age: 43.0 years.

Service: 11.3 years.

Annual Pay: \$24,128.

Volunteer Firemen

Active Members December 31, 1988

By Attained Age and Years of Service

Attained _Age	0-4	Years 5-9	of Serv 10-14	ice to 15-19	Valuati 20-24	on Date 25-29 30 Plus	<u>Totals</u>
25-29 30-34 35-39	2	2 1 3	2 2				2 5 8
40-44 45-49 50-54 55-59		2	1	1 2	1 2 1		4 3 2 1
62					1		1
Totals	5	8	5	3	5		26

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

Age: 39.8 years.

Service: 11.3 years.

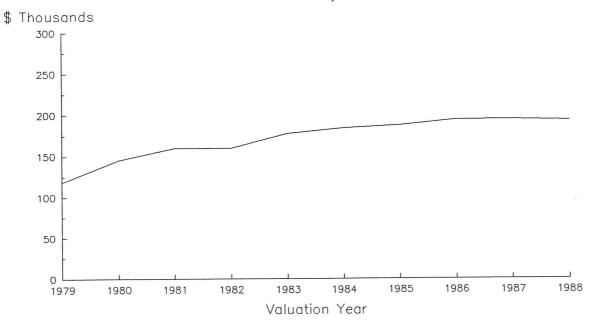
### Crookston Fire Department Relief Association Comparative Schedule

#### Of Active Members

#### Full-Time Firemen

Valuation Date <u>December 31</u>	Active Members	Valuation Payroll	Age	Averag Service	e Pay	% Incr.
1979	8	\$118,194	38.3 yrs.	4.5 yrs.	\$14,774	11.5%
1980	8	145,186	39.3	5.5	18,148	22.8
1981	8	159,438	40.3	6.5	19,930	9.8
1982	8	159,492	41.3	7.5	19,937	-
1983	8	177,258	38.0	6.9	22,157	11.1
1984	8	183,638	39.0	7.9	22,955	3.6
1985	8	187,231	40.0	8.9	23,404	2.0
1986	8	193,784	41.0	9.9	24,223	3.5
1987	8	194,180	42.0	10.9	24,273	0.2
1988	8	193,023	43.0	11.3	24,128	(0.6)

#### Valuation Payroll



## Crookston Fire Department Relief Association Comparative Schedule Of Active Members

#### <u>Volunteers</u>

Valuation Date <u>December 31</u>	Active Members	Valuation Payroll	Age	Average Service	Pay	% Incr.
1979	24	\$N/A	36.4 yrs.	7.3 yrs.	\$N/A	N/A%
1980	25	N/A	36.4	7.8	N/A	N/A
1981	24	N/A	35.6	8.0	N/A	N/A
1982	27	N/A	34.3	7.3	N/A	N/A
1983	27	N/A	35.2	8.1	N/A	N/A
1984	27	N/A	36.3	8.7	N/A	N/A
1985	27	N/A	37.1	9.2	N/A	N/A
1986	27	N/A	38.2	10.1	N/A	N/A
1987	27	N/A	38.4	10.3	N/A	N/A
1988	26	N/A	39.8	11.3	N/A	N/A

### Crookston Fire Department Relief Association Brief Summary (12/31/88) of Benefit Provisions Evaluated and/or Considered

#### Full-Time

#### Age & Service Retirement

Eliqibility. 20 years of service and 60 years of age.

Amount. 50% of final salary. In addition, 1.5% of final salary is paid for each year of service after age 60.

#### Disability Retirement

<u>Eligibility</u>. Disabled as a result of duty to the extent that unable to perform duties of firefighter prior to eligibility for age & service retirement.

Amount. 50% of final salary offset by the amount of worker's compensation being received.

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

#### Eligibility.

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

<u>Child</u>. Younger than age 18.

<u>Survivor benefits</u> are offset by the amount of worker's compensation being received.

#### Amount.

Spouse. The greater of \$3,600 per year or 50% of earned retirement benefit at date of death.

<u>Child</u>. \$180 per child per year subject to a maximum of \$1,260 per year if spouse if living or \$1,080 per year if spouse is deceased.

<u>Death Benefit</u>. \$1,000 lump sum payment for duty related death or a \$500 lump sum payment for non-duty related death.

<u>Vested Deferred</u>. 20 years of service and separated before age 60. Payment beginning is deferred to attainment of age 60.

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

#### **Volunteers**

#### Age & Service Retirement

Eligibility. 20 years of service and 60 years of age.

Amount. For first 20 years of service \$600 per year. For each year in excess of 20 an additional \$60 per year is added up to a maximum of \$1,800 per year.

#### Disability Retirement

Eligibility. Same as full time.

- <u>Amount</u>. (1) <u>Total Disability</u>. \$25 per week for 12 weeks and \$15 per month thereafter.
  - (2) Partial Disability. \$15 per week for 12 weeks.

Disability benefits are offset by the amount of worker's compensation being received.

#### Death Benefits

- (1) Duty Related. Lump sum payment of \$1,000.
- (2) Non-Duty Related. Lump sum payment of \$100 plus \$100 for each year of service over 20 years up to a maximum of \$600.

<u>Vested Deferred</u>. 20 years of service and separated before age 55. Payment beginning is deferred to attainment of age 55.

Member Contributions. None.

#### SECTION C

## Valuation Methods and Assumptions

## Crookston Fire Department 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 62, attained age if older.

#### Mortality Table\*

Single Life Values:

112.87

95.20

77.77

70

75

80

95.20

77.77

61.71

Present Value of \$1 Monthly Level Increasing Future Life For Life 3.5% Yearly **Expectancy (Years)** Sample Women Women Ages Men Men <u>Men</u> 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 29.50 147.50 163.12 212.60 246.55 21.16 25.20 55 147.50 179.49 212.60 17.42 60 130.52 21.16 65 112.87 130.52 148.28 179.49 14.05 17.42

119.70

93.83

71.69

148.28

119.70

93.83

11.09

8.52

6.39

14.05

11.09

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.

Sample Ages	Present Pay Resulting in Pay of \$1,000 at Age 60	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

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

#### Anticipated Disability Retirements

Sample Ages	% of Active Members Becoming <u>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**

# 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, 1988. 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, 1988, the unfunded pension benefit obligation was \$97,874, determined as follows:

Pension Benefit Obligation:

Retirants and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$392,124
Current employees	
Accumulated employee contributions including allocated investment income	132,325
Employer financed	294,156
Total Pension Benefit Obligation	\$818,605
Net assets available for benefits, at cost (market value was \$720,731)	720,731
Unfunded Pension Benefit Obligation	\$ <u>97,874</u>

The total pension benefit obligation as of January 1, 1988 was \$802,185. During the year, the plan experienced a net change of \$16,420 in the pension benefit obligation.

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 21 years.

During the year ended December 31, 1988, contributions totaling \$59,047 -- \$42,416 employer and \$16,631 employee -- were made in accordance with contribution requirements determined by an actuarial valuation of the plan as of December 31, 1986. The employer contributions consisted of \$21,181 for normal cost and \$21,235 for amortization of the unfunded actuarial accrued liability. Employer contributions represented 21.89% 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

		<u>Contribution</u>	Rates			
Fiscal	Valuation	Normal Cost				ntribution
Year	Date	% of Valuation	UAAL	Valuation	<u>For Fisc</u>	
<u>December 31</u>	<u>December 31</u>	Payroll	<u>Dollars</u>	<u>Payroll</u>	<u>Computed</u>	<u>Actual</u>
1987	1985	10.93%	\$12,207	\$187,231	\$32,671	\$40,691
1988	1986	10.93	12,932	193,784	34,113	42,416
1989	1987	10.77	11,911	194,180	32,824	
1990	1988	11.09	10,237	193,023	31,643	

<sup>\*</sup> After changes in benefit provisions.

## 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	\$678,484	\$802,185	84.6%	\$123,701	\$194,180	63.7%
1988	720,731	818,605	88.0	97,874	193,023	50.7

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</u>, and <u>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.

<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.

#### 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.