WINONA FIRE DEPARTMENT RELIEF ASSOCIATION

## ACTUARIAL CALCULATIONS PRELIMINARY

TO CONSOLIDATION

STATE OF MINNESOTA DEPARTMENT OF STATE FILED

JUL 1 11989

Jan Andrew Secret Secretary of State

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This report incorporates the Laws of Minnesota 1989 Chapter 319.



June 30, 1989

Legislative Commission on Pensions and Retirement 55 State Office Building St. Paul, Minnesota 55155

## RE: WINONA FIRE DEPARTMENT RELIEF ASSOCIATION

**Commission Members:** 

We have performed actuarial calculations preliminary to consolidation for the Relief Association as of January 1, 1989 based on membership and financial data supplied by the Relief Association.

This report incorporates the Laws of Minnesota 1989 Chapter 319 which provides for:

- o A level benefit for PERA Police and Fire of 2.5% for all years of service.
- o An increase in the pre-retirement interest rate from 8.0% to 8.5% for PERA Police and Fire, and an increase in both the pre-retirement interest rate and the post-retirement interest rate from 8.0% to 8.5% for the Relief Association. (The new amortization date of 2020 does not apply to a consolidated relief association)
- o A partial post retirement adjustment for individuals in the Minnesota Post Retirement Investment Fund who have received benefits for less than twelve full months.

We certify that to the best of our knowledge and belief this actuarial work was performed in accordance with the requirements of Sections 353A.05 and 356.215, Minnesota Statutes, and the requirements of the Standards for Actuarial Work, adopted by the Commission on August 22, 1988.



Respectfully submitted,

THE WYATT COMPANY

Robert E. Perkins, FSA

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Robert E. Perkins, FSA Consulting Actuary Michael C. Gunvalson, FSA Actuary

cc: The Honorable Arne Carlson, State Auditor The Honorable Joan Anderson Growe, Secretary of State Howard Bicker, State Board of Investment James Hacking, Public Employees Retirement Association James Noble, Legislative Auditor Thomas J. Triplett, Commissioner of Finance Charles Anderson, Treasurer, Winona Fire Department Relief Association Eric B. Sorenson, City Manager, City of Winona

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## REPORT PRELIMINARY TO CONSOLIDATION

The purpose of this report is to estimate the cost of consolidating the Relief Association with PERA Police and Fire (P&F) as specified in Minnesota Statutes, Chapter 353A prior to potential final municipal approval of the consolidation question.

The consolidation process provides the Relief Association members and their beneficiaries an opportunity to change their retirement benefit plan coverage by electing between Relief Association and P&F benefits. In order to evaluate the financial aspects of consolidation, the costs in Table 1 have been determined under three possible outcomes - all individuals elect Relief Association benefits (column 2), all individuals elect P&F benefits (column 3) and each individual elects the benefit plan which has the greater total benefit plan actuarial value (column 4).

Table 1 also compares the consolidation calculations to those found in the actuarial valuation of the Relief Association as of December 31, 1988, prepared by Gabriel, Roeder, Smith & Company. Since the Relief Association benefits are identical for columns 1 and 2, the differences in liabilities and costs are due primarily to the use of different actuarial assumptions as required by statute, and to a lesser extent, to the differences in data. Table 2 shows the data and lists the major assumptions.

Whenever a retired member or the retired member's surviving spouse elects P&F benefits, the reserve for that benefit must be transferred to the Minnesota Post Retirement Investment Fund (MPRIF). The amount to be transferred if all benefit

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recipients who are eligible for MPRIF elect P&F benefits is \$4,375,842, which is less than the current market value of assets. This amount includes an estimated increase of 4.0% for those who meet the MPRIF eligibility rules for a January 1, 1990 benefit adjustment.

Current benefit recipients who are not eligible for MPRIF will be paid directly by PERA. Their benefits will be escalated by the same percentage that applies to MPRIF annuitants, however no funds are required to be transferred to MPRIF.

Although the costs shown in Table 1 represent an appropriate range of estimates available today, the costs are subject to change in future years following the consolidation. The true cost of any pension plan is not completely determined until the last benefit payment has been made to the last benefit recipient. Prior to that date, annual budgets are determined by making assumptions regarding future experience.

Each year in the future following consolidation, municipal costs will be redetermined based on the elections made by members and beneficiaries and will consist of the following components:

<u>Regular contributions (line 7)</u> - a variable cost which will depend on the compensation of members still active.

<u>Additional contributions (line 6)</u> - a fixed cost which is an annual amount of \$699,895, the amount required to amortize the initial unfunded consolidation actuarial liability shown in column 4 of Table 1 by the year 2010.

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	ACTUARIAL CALCULATIONS			
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	Relief <u>Association</u> (1)	All Elect <u>Relief Association</u> (2)	All Elect <u>PERA P&amp;F</u> (3)	All Elect <u>Greater Value</u> (4)
Date of Calculations	12/31/88	1/1/89	1/1/89	1/1/89
Actuarial Present Value of Projected Benefits	\$13,683,086	\$13,689,151	\$10,418,072	\$13,689,151
Actuarial Accrued Liability	12,100,118	12,591,467	9,412,979	12,591,467
Norma] Cost	217,778	164,748	129,845	164,748
Determination of Municipality Contributions (Before Adjustment For 1. Actuarial Present Value of Projected Benefits	<u>State Aid)</u> \$13,683,086	\$13,689,151	\$10,418,072	\$13,689,151
2. Present Value of Future Member Contributions	NA	475,759	532,038	475,759
3. Present Value of Future Regular Municipal Contributions	ŇA	713,638	798,057	713,638

5,050,337

7,194,001 \*\*

547,527

699,610

152,083 \*\*\*\*

WINONA FIRE DEPARTMENT RELIEF ASSOCIATION

TABLE 1

5,050,337 \*

7,449,417

103,053

802,948

699,895 \*\*\*

5,050,337 \*

4,037,640

379,348 \*\*\*

101,202

480,550

5,050,337 \*

7,449,417

699,895 \*\*\*

103,053

802,948

\* Equal to market value reported by Winona and assuming no changes by the State Board of Investments.

\*\* Based on the Actuarial Accrued Liability less the Current Assets of \$4,906,117.

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Market Value of Assets

7. Regular Municipal Contribution

8. Total Municipal Contribution (6+7)

5. Unfunded Amount to be Amortized (1-2-3-4)

Additional Municipal Contribution (5 amortized by 2010)

4.

6.

\*\*\* An increase (decrease) in Market Value of \$100,000 will decrease (increase) the municipal contribution by \$9,395. \*\*\*\* Equals the Employer Normal Cost.

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## WINONA FIRE DEPARTMERNT RELIEF ASSOCIATION DATA AND ASSUMPTIONS

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	Prior Valuation	<u>Consolidation</u> Calculation	
	Relief	All Elect	All Elect
	Association	Relief Association	PERA P&F
	a da serie de la companya de la comp	(2)	(3)
Number in Plan			
Active Members	28	28	28
Deferred Former Members	0	Ō	0
Retired Members and Beneficiaries	43	42	42
Member Contribution			
Percentage	8.0%	0.04	0 AV
Compensation Base	\$821,184	8.0% 1950 775	8.0%
Contribution	65,695	\$858,775 68,702	\$843,346 67,468
		00,702	07,400
Municipal Contribution			
Percentage	NA	12.0%	12.0%
Compensation Base	NA N	\$858,775	\$843,346
Contribution	NA SA ANA ANA ANA ANA ANA ANA ANA ANA AN	103,053	101,202
$\mathbf{S}_{\mathbf{r}}$			
Interest - Before Retirement	5.0%	8.5%	8.5%
After Retirement	5.0%	8.5%	5.0%
Salary Increase			
alary Increase	3.5%	6.5%	6.5%
Salary Increase Post Retirement Benefit Increase of Salary Street	3.5%	6.5%	NA
Interest - Before Retirement After Retirement Salary Increase Post Retirement Benefit Increase Retirement Age/Service	58/20	58/20	60/3
)ther Assumptions	per Winona Relief	per PERA P&F	per PERA P&F
	Association Report	Report	Report

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TABLE 2