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SECRETARY OF STATE

SOUTH ST. PAUL FIREMEN'S RELIEF ASSOCIATION

ACTUARIAL CALCULATIONS PRELIMINARY
TO CONSOLIDATION

This report incorporates the Laws of Minnesota 1989 Chapter 319.

STATE OF MINNESOTA
DEPARTMENT OF STATE
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THE Wyatt COMPANY -

August 7, 1989

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

RE: SOUTH ST. PAUL FIREMEN'S 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.

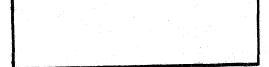
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Respectfully submitted, THE WYATT COMPANY

Robert E. Perkins, FSA Consulting Actuary

The Honorable Arne Carlson, State Auditor
The Honorable Joan Anderson Growe, Secretary of State
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Howard Bicker, State Board of Investment
Howard Bicker, State Board of Investment Association
James Hacking, Public Employees Retirement Association
James Noble, Legislative Auditor
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Thomas J. Triplett, Commissioner of Finance
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Thomas Watkins, South St. Paul Firemen's Relief Association
James Watkins, South St. Paul City Administrator
Gary L. Word, South St. Paul City Administrator CC:

THE PRECEDING



DOCUMENT(S) HAVE BEEN REFILMED FOR LEGIBILITY



Respectfully submitted, THE WYATT COMPANY

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
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James Watkins, South St. Paul Firemen's Relief Association
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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

recipients who are eligible for MPRIF elect P&F benefits is \$3,644,000, which is more than the current market value of assets. This amount includes an estimated increase of 3.8% 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:

- Regular contributions (line 7) a variable cost which will depend on the compensation of members still active.
- Additional contributions (line 6) a fixed cost which is an annual amount of \$324,031, the amount required to amortize the initial unfunded consolidation actuarial liability shown in column 4 of Table 1 by the year 2010.

Additional contributions (undeterminable at this time) - a variable cost which will depend on actual experience. Any actuarial gains (for example, investment results in excess of 8.5%) will reduce future contributions and actuarial losses (for example, salary increases in excess of 6.5%) will increase future contributions.

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	Prior Valuation	Election Of Bene	Election Of Benefits Under The Consolidation		
	Relief	All Elect	All Elect	All Elect	
	<u>Association</u>	Relief Association	PERA P&F	<u>Greater Value</u>	
	(1)	(2)	(3)	(4)	
Date of Calculations	12/31/88	1/1/89	1/1/89	1/1/89	
Actuarial Present Value of Projected Benefits	\$7,745,088	\$8,310,493	\$6,653,614	\$8,322,185	
Actuarial Accrued Liability	6,190,655	6,661,598	5,674,140	6,704,644	
Normal Cost	117,115	131,727	86,709	128,933	
Determination of Municipality Contributions (Before Adjustment For	State Aid)				
l. Actuarial Present Value of Projected Benefits	\$7,745,088	\$8,310,493	\$6,653,614	\$ 8,322,185	
2. Present Value of Future Member Contributions	NA	574,975	527,749	570,455	
3. Present Value of Future Regular Municipal Contributions	NA	862,462	791,623	855,683	
. Market Value of Assets	3,447,177	3,447,177 *	3,644,000 **	3,447,177 *	
. Unfunded Amount to be Amortized (1-2-3-4)	2,688,678 ***	3,425,879	1,690,242	3,448,870	
3. Additional Municipal Contribution (5 amortized by 2010)	204,633	321,871 ****	158,803 ****	324,031 *	
. Regular Municipal Contribution	72,243 ****	69,245	69,245	69,245	
. Total Municipal Contribution (6+7)	276,876	391,116	228,048	393,276	

^{*} Equal to market value reported by South St. Paul and assuming no changes by the State Board of Investments.

^{**} Under the assumption that all elect PERA P&F, the City of South St. Paul must contribute \$196,823 to the existing assets in order to have sufficient cash for transfer to the Post Fund. This extra contribution reduces the unfunded amount to be amortized by the year 2010 (line 5) and produces a total municipal contribution (line 8) of \$228,048.

^{***} Based on the Actuarial Accrued Liability less the Current Assets of \$3,501,977.

^{****} 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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	Relief <u>Association</u> (1)	All Elect <u>Relief Association</u> (2)	A11 Elect <u>PERA P&F</u> (3)
Number in Plan			
Active Members	16	15	15
Deferred Former Members		0	
Retired Members and Beneficiaries	17	18	18
Member Contribution			
Percentage	8.0%	8.0%	8.0%
Compensation Base	\$560,896	\$577,040	\$577,040
Contribution	44,872	46,163	46,163
Municipal Contribution			
Percentage	NA NA	12.0%	12.0%
Compensation Base	"NA"	\$577,040	\$577,040
Contribution	NA NA	69,245	69,245
Interest - Before Retirement	5.0%	8.5%	8.5%
After Retirement	5.0%	8.5%	5.0%
Salary Increase	3.5%	6.5%	6.5%
Post Retirement Benefit Increase	3.5%	6.5%	NA
Retirement Age/Service	62/20	62/20	60/3
Retirement Age/Service Other Assumptions Retirement Age/Service Other Assumptions Retirement Age/Service AUG I 11989 FILED Signature Signatur	per South St. Paul Firemen's Relief Association Report	per PERA P&F Report	per PERA P&F Report
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