

**TULARE COUNTY
EMPLOYEES' RETIREMENT
ASSOCIATION**

**REPORT ON THE EXPERIENCE STUDY
FOR THE PERIOD JULY 1, 2005
THROUGH JUNE 30, 2008**

December 15, 2008

Board of Retirement
Tulare County Employees'
Retirement Association
136 N. Akers
Visalia, CA 93291

Members of the Board:

We are pleased to present our report on the experience analysis of your Retirement Association for the period from July 1, 2005 through June 30, 2008.

We hereby certify that the experience was performed in accordance with generally accepted actuarial principles and practices.

We look forward to discussing this report with the Board and wish to express our appreciation for the invaluable cooperation extended to us by the Retirement Staff during the course of this study.

Respectfully submitted,

A handwritten signature in cursive script that reads "Charles E. Chittenden".

Charles E. Chittenden, F.S.A., M.A.A.A., E.A.
Principal and Consulting Actuary

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SECTION I: EXECUTIVE SUMMARY

We were commissioned by the Board to perform an experience study of the Retirement Association as of June 30, 2008, using the unaudited statistical information data supplied by the Retirement Office for the active, inactive and retired membership.

A brief summary of the results of our valuation is presented below. More comprehensive information on each topic is presented in the relevant section of the report.

Section II - Statistical Highlights

This section shows a summary of the inactive, retired and active membership data used for the experience analysis.

Section III - Summary of Actuarial Assumptions

Noneconomic Assumptions

We have examined the plan experience during the three-year period from July 1, 2005 through June 30, 2008. We analyzed data for this period regarding service retirement, deaths, disabilities and terminations of employment and compared the number of actual terminations to the incidence expected using the current actuarial assumptions. Where the results differ materially, and the change points to a developing trend, we recommend modifying the assumptions. The summary of our findings and recommendations is incorporated in the body of this report.

Economic Assumptions

In order to ensure that the same inflationary expectations are consistently included in all of the economic assumptions, we used a building block approach in developing the economic assumptions. That is, we assumed that the investment return earned over the long term is comprised

of inflation and real rate of return and we assumed that future salary increases are comprised of inflation and merit and longevity increases.

The summary of our findings and recommendations is incorporated in the body of this report.

Section IV - Appendix

Detailed information on the current and recommended actuarial assumptions is shown in Section IV.

SECTION II: STATISTICAL HIGHLIGHTS

Our June 30, 2008 experience study of your Association was based on the following data that was collected for the June 30, 2006, June 30, 2007 and June 30, 2008 actuarial valuations.

SUMMARY OF INACTIVE MEMBERSHIP*			
	June 30, 2006	June 30, 2007	June 30, 2008
GENERAL			
Number	1,434	1,539	1,586
SAFETY			
Number	159	171	190
TOTAL			
Number	1,593	1,710	1,776

*Includes unclaimed accounts.

SUMMARY OF RETIRED MEMBERSHIP			
	June 30, 2006	June 30, 2007	June 30, 2008
GENERAL			
Number	1,560	1,617	1,697
Total Annual Allowance	21,505,897	\$23,155,063	\$25,698,055
Average Total Monthly Allowance	1,149	\$1,193	1,262
SAFETY			
Number	280	296	310
Total Annual Allowance	7,198,337	\$7,858,583	\$8,545,955
Average Total Monthly Allowance	2,142	\$2,212	2,297
TOTAL			
Number	1,840	1,913	2,007
Total Annual Allowance	28,704,234	\$31,013,646	\$34,244,010
Average Total Monthly Allowance	1,300	\$1,351	\$1,422

SUMMARY OF ACTIVE MEMBERSHIP			
	June 30, 2006	June 30, 2007	June 30, 2008
GENERAL TIER 1			
Number	175	157	125
Annual Payroll*	\$9,507,964	\$9,242,195	\$7,725,514
Average Monthly Salary	\$4,528	\$4,906	\$5,150
Average Age	56.18	56.91	57.15
Average Service	27.74	29.05	29.46
GENERAL TIER 2 & 3			
Number	3,628	3,757	3,713
Annual Payroll*	\$150,653,330	\$163,895,080	\$171,104,754
Average Monthly Salary	\$3,460	\$3,635	\$3,839
Average Age	42.64	42.47	42.88
Average Service	7.04	7.04	7.14
SAFETY TIER 1			
Number	20	16	17
Annual Payroll*	\$1,537,679	\$1,390,929	\$1,533,029
Average Monthly Salary	\$6,407	\$7,244	\$7,515
Average Age	54.50	54.81	55.65
Average Service	28.95	30.88	30.71
SAFETY TIER 2 & 3			
Number	472	568	818
Annual Payroll*	\$25,249,729	\$30,274,594	\$46,473,237
Average Monthly Salary	\$4,458	\$4,442	\$4,734
Average Age	37.56	37.26	37.00
Average Service	8.38	7.22	7.11
TOTAL			
Number	4,295	4,498	4,673
Annual Payroll*	\$186,948,702	\$204,802,798	\$226,836,234
Average Monthly Salary	\$3,627	\$3,794	\$4,045
Average Age	42.69	42.36	42.28
Average Service	8.13	7.92	7.82

* Represents the annualization of active members' pay rates on June 30.

SECTION III: SUMMARY OF ACTUARIAL ASSUMPTIONS

To carry out an actuarial valuation of the assets and liabilities of your Association, the actuary must first adopt assumptions with respect to each of the following items:

Noneconomic assumptions

- ◆ The probabilities of members separating from active service on account of nonvested and vested withdrawal, retirement for service, death, and disability, and
- ◆ The mortality rates to be experienced among retired persons.

Economic assumptions

- ◆ Investment earnings to be realized on the funds over many years in the future, and
- ◆ The increases in a member's salary from the date of the valuation to the date of separation from active service.

We discuss each of the above items in the following paragraphs of this Section.

NONECONOMIC ASSUMPTIONS

Rates of Separation from Active Service

We compared the expected number of terminations from active service to the number actually experienced during the three-year period beginning July 1, 2005 and ending June 30, 2008. Based on the experience and the trends observed over the prior three and/or six years, the probabilities of separation were adjusted accordingly, as identified below.

Withdrawal

During the experience study period, the incidence of *withdrawal* was lower than expected for General males during the first two years of service but very close for service beyond two years. Taking into account the experience over the last 6 years, we are recommending a reduction in the assumed *withdrawal* rates for General male members during the first two years of service.

During the experience study period, the incidence of *withdrawal* was lower than expected for General females during the first year of service but very close for service beyond one year. Taking into account the experience over the last 6 years, we are recommending a reduction in the assumed *withdrawal* rates for General female members during the first year of service.

During the experience study period, the incidence of *withdrawal* was lower than expected for Safety members during the first year of service but very close for service beyond one year. This trend is a reversal from the prior experience study. Taking into account the most recent experience, we are recommending a reduction in the assumed *withdrawal* rates for Safety members during the first year of service.

Preretirement Death

During the experience study period, the number of deaths was lower than expected for General males, General females, and Safety members. However, given the small number of actual and expected deaths, and taking into account the experience since 2002, we recommend no change to this assumption.

Ordinary Disability

During the experience study period, the incidence of *ordinary disability* was lower than expected for General males and General females and close to expected for Safety members. The patterns have reversed over several of the recent experience study periods for all three categories. For this reason and the small number of actual and expected disabilities we recommend no changes to this assumption at this time.

Duty Disability

During the experience study period, the incidence of *duty disability* was less than expected for General male members and Safety members, and was higher than expected for General female members. The patterns have reversed over several of the recent experience study periods for all three categories. Given the small number of actual and expected disabilities we recommend no change to this assumption at this time.

Service Retirement

The number of actual separations due to *service retirement* was lower than expected for all General and Safety members. The patterns have reversed over several of the recent experience study periods for all three categories. We are recommending a decrease in the retirement assumption at this time.

Deferred Retirement

During the experience study period, the incidence of deferred retirements was greater than expected for all members. We recommend a moderate increase in the assumed deferred retirement rates for all 3 categories.

The purpose of the following table is to provide the reader with a shorthand summary of the experience compared with the existing assumptions. A complete list of the current and recommended rates of separation from active service can be found in Schedule 2 of the Appendix. These rates should be viewed in the aggregate rather than examining each of them separately. This is due to the interdependency of the rates. For example, if turnover were to increase, there would be fewer retirements.

“Expected separations” means the number of terminations that would occur if the currently assumed probabilities were applied to your actual work force over the period under investigation.

SUMMARY OF ACTUARIAL INVESTIGATION WITH RESPECT TO RATES OF SEPARATION FROM ACTIVE SERVICE			
	Actual Separations	Expected Separations	Revised Separations
Withdrawal			
General Male	138	183.83	123.49
General Female	354	461.59	319.53
Safety	64	89.89	71.72
Pre-retirement Death			
General Male	1	6.25	N/A
General Female	0	10.69	N/A
Safety	2	3.17	N/A
Ordinary Disability			
General Male	3	4.08	N/A
General Female	8	11.52	9.82
Safety	5	15.47	N/A
Duty Disability			
General Male	3	7.22	N/A
General Female	5	3.74	N/A
Safety	5	15.47	N/A
Service Retirement*			
General Male	91	163.84	81.92
General Female	107	279.36	139.67
Safety	22	37.55	25.05
Deferred Retirement			
General Male	179	51.38	154.18
General Female	350	101.20	303.62
Safety	32	24.01	31.99
All Terminations	1,368	1,458.23	

* Excludes General members older than 70 and Safety members older than 60.

Recommendation

We recommend that the Board adopt the new rates of separation shown in Schedule 2 of the Appendix.

Mortality After Retirement

We have also analyzed mortality after retirement by comparing the expected number of deaths with the actual incidence of death after service retirement. The comparison was made by utilizing the following mortality tables currently in use:

Current Service Retirement Mortality Tables

General Males	RP 2000 Mortality Table for Males, with white collar adjustment, and no setback
General Females	RP 2000 Mortality Table for Females, with white collar adjustment, and no setback
Safety	RP 2000 Mortality Table for Males, with blue collar adjustment, and no setback

Note: No setback means that the table is used as published. When the table is set forward one year, the member's life expectancy is that of someone one year older. When the table is set back one year, the member's life expectancy is that of someone one year younger.

The results of the prior two and current experience analyses are as shown below:

NUMBER OF DEATHS AFTER SERVICE RETIREMENT					
	Actual 7/1/1997 to 6/30/2000	Actual 7/1/2002 to 6/30/2005	Actual 7/1/2005 to 6/30/2008	Expected 7/1/2005 to 6/30/2008	Revised 7/1/2005 to 6/30/2008
General Males and Male Beneficiaries	66	47	86	68.3	N/A
General Females and Female Beneficiaries	60	77	98	86.0	N/A
Safety Members	9	2	4	9.2	N/A

During the most recent period under investigation, the number of actual deaths was greater than expected for General members, and less than expected for Safety members. Based on these results and the results for the prior periods where trends had been reversed, we are recommending no change to the mortality tables at this time. We will continue to monitor trends in mortality improvements.

Recommended Service Retirement Mortality Tables

General Males (no change)	RP 2000 Mortality Table for Males, with white collar adjustment, and no setback
General Females (no change)	RP 2000 Mortality Table for Females, with white collar adjustment, and no setback
Safety (no change)	RP 2000 Mortality Table for Males, with blue collar adjustment, and no setback

Note: No setback means that the table is used as published. When the table is set forward one year, the member's life expectancy is that of someone one year older. When the table is set back one year, the member's life expectancy is that of someone one year younger.

A full listing of the life expectancies based on these tables is shown in Schedule 3 of the Appendix.

Mortality After Disability Retirement

In addition, we analyzed mortality after disability retirement. This comparison was made by utilizing the following mortality tables currently in use:

Current Disability Retirement Mortality Tables

General Males	RP 2000 Disabled Annuitant Mortality Table for Males, and no setback
General Females	RP 2000 Disabled Annuitant Mortality Table for Females, and no setback
Safety Males	RP 2000 Disabled Annuitant Mortality Table for Males, with a two-year setback
Safety Females	RP 2000 Disabled Annuitant Mortality Table for Females, with a two-year setback

The results of the prior two and current experience analyses are as shown below:

NUMBER OF DEATHS AFTER DISABILITY RETIREMENT					
	Actual 7/1/1997 to 6/30/2000	Actual 7/1/2002 to 6/30/2005	Actual 7/1/2005 to 6/30/2008	Expected 7/1/2005 to 6/30/2008	Revised 7/1/2005 to 6/30/2008
General Males	17	8	2	8.2	N/A
General Females		6	2	7.3	N/A
Safety Members	4	5	3	8.3	N/A

During the period under investigation, the number of actual deaths was much lower than expected for General and Safety members. Based on the results of the prior periods, and low number of actual deaths in the latest period, we are not recommending any changes.

Recommended Disability Retirement Mortality Tables

General Males (no change)	RP 2000 Disabled Annuitant Mortality Table for Males, and no setback
General Females (no change)	RP 2000 Disabled Annuitant Mortality Table for Females, and no setback
Safety Males (no change)	RP 2000 Disabled Annuitant Mortality Table for Males, with a two-year setback
Safety Females (no change)	RP 2000 Disabled Annuitant Mortality Table for Females, with a two-year setback

Note: No setback means that the table is used as published. When the table is set forward one year, the member's life expectancy is that of someone one year older. When the table is set back one year, the member's life expectancy is that of someone one year younger.

A full listing of the life expectancies based on these tables is shown in Schedule 3 of the Appendix.

Mortality Tables for Employee Contribution Rates

Member contribution rates are currently based on the following unisex mortality tables:

General	RP 2000 Healthy Annuitant Mortality Table, with white collar adjustment, weighted 1/3 males and 2/3 females, with no setback
Safety	RP 2000 Healthy Annuitant Mortality Table, with blue collar adjustment, weighted 5/6 males and 1/6 females, with no setback

Based on the recommended changes to the mortality tables after service retirement discussed above, we are not recommending any change to the mortality basis for the member contribution rates.

ECONOMIC ASSUMPTIONS

In setting the economic assumptions, we take a building block approach. Specifically, we first look at the rate of inflation which underlies both the total rate of return and the salary scale assumptions. To aid us in determining an appropriate inflation rate for your Association, we have reviewed long-term historical inflation averages, recent trends, and the assumptions adopted by other public retirement systems governed by the 1937 Act. It should be noted that we have placed more emphasis on long-term historical averages and long-term future predictions than on the more recent, short-term trends. This helps to minimize fluctuations which are more apparent in short-term trends.

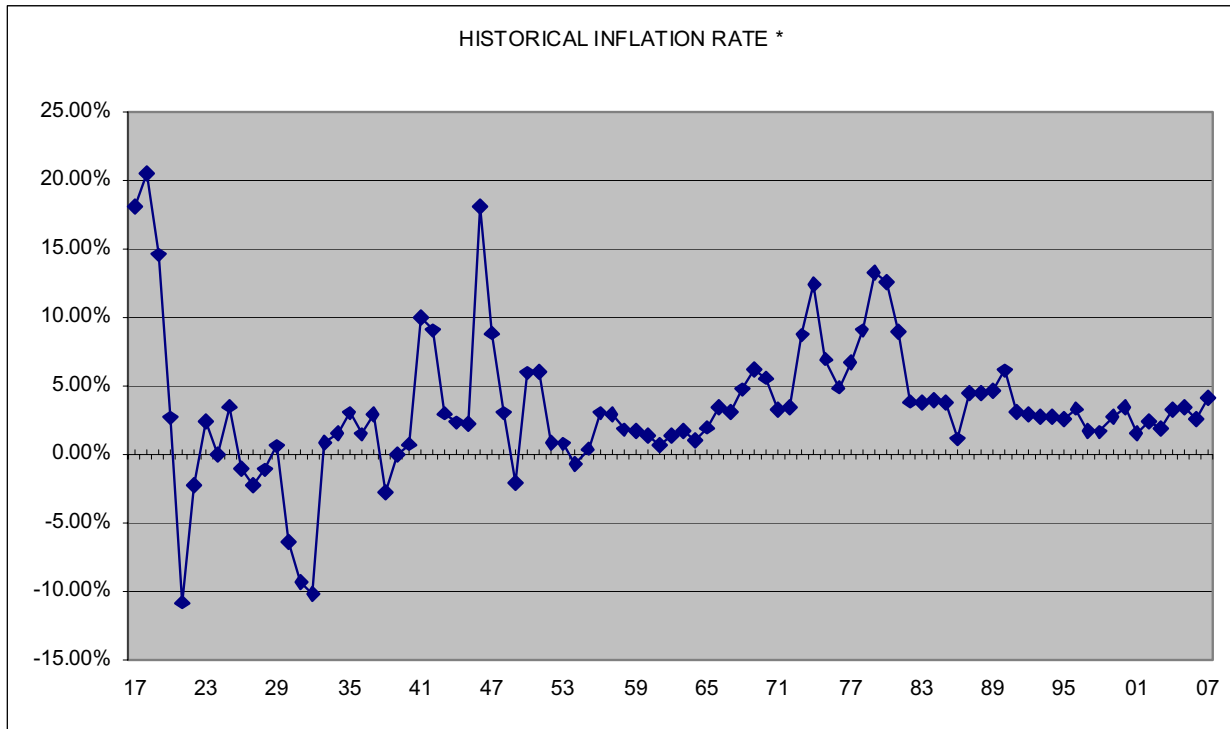
Secondly, we review the anticipated real rate of return on investments. The real rate of return is dependent on the anticipated returns on classes of investments and the asset allocation of the Association's funds. To develop the individual real rates of return we utilize various empirical studies. By applying the results of these studies to the Association's target asset allocation, we develop the real rate of return. This rate may then be adjusted for any known or anticipated changes in the economy that may occur. Using our building block approach, we combine the underlying inflation assumption with the real rate of return to develop the total rate of return assumption (interest rate assumption).

The salary scale assumption is developed in a similar manner. The inflation rate is combined with merit and longevity increases to produce a total salary scale assumption.

Inflation

One of the most important assumption used in valuing the Association’s liabilities is the rate of inflation. This assumption underlies both the investment return assumption and the salary increases assumption. These in turn directly impact the employer and employee contribution rates.

If the pattern of inflation during the last 90-year period is analyzed, it may be extrapolated that the current low rates will not continue into the future indefinitely. Inflation appears to move in a cyclical fashion as may be seen in the following graph.



* US City Average (December Index)

<u>From</u>	<u>To</u>	<u>Years</u>	<u>Average</u>
1998	2007	10	2.68%
1988	2007	20	3.05%
1978	2007	30	4.19%
1968	2007	40	4.71%
1958	2007	50	4.12%
1948	2007	60	3.77%
1938	2007	70	3.96%
1928	2007	80	3.26%
1918	2007	90	3.19%

Because of the cyclical nature of inflation and the long-term nature of the Association's liabilities, we believe that it is appropriate to assume that the average inflation rate to be experienced over the next 20 to 50 years (which is approximately the lifetime of the present obligations of the Association) will be between 3.00% and 4.75%.

Based on the information presented in the economic assumption section, we recommend that the current inflation rate assumption of 4.00% continue to be used.

Real Rate of Return

The first step in developing a real rate of return is to analyze how the Association's assets are allocated among the various investment classes. Based on this information, we can then apply the anticipated rate of return to the respective classes and develop an overall estimated real rate of return. The Association has adopted the target asset allocation shown below.

TARGET ASSET ALLOCATION AS OF JUNE 30, 2008 (MARKET VALUE)	
	Target
Equity	60%
Fixed Income/Bonds	30%
Real Estate	10%
Short Term Cash Equivalents	0%

Recommended economic assumptions are based on the following:

REAL RATES OF RETURN	
Domestic Equity	6.00%
Fixed Income/Bonds	2.50%
International Equity	6.25%
Real Estate	4.25%
Private Equity	8.00%

Applying the Association's target asset allocation to the real rates of return in the table above produces a real rate of return of approximately 4.85% (assuming an equity mix of 85% domestic, 10% international and 5% private). After adjusting for expenses and potential adverse future experience, we believe that a real rate of return of 3.75% provides a reasonable degree of conservatism when used with a 4.00% inflation rate. Thus, we recommend that the 7.75% investment return assumption be continued. In addition, since the reserves are credited semi-annually, the 7.75% rate of investment return is compounded to an effective rate of 7.90%.

Merit and Longevity Increases

The merit and longevity component of the total salary scale assumption reflects increases in members' salaries due to promotions, advances in pay grades, etc. These increases are dependent on an individual's membership and are graded downward as members have more years of service.

The overall effect of the merit and longevity increases is to add approximately 1.50% to the total salary scale assumption.

Recommendation

Based on the information presented in this section, we recommend that the 7.75% investment return rate assumption (effective rate of 7.90%), long-term inflation rate assumption of 4.00%, and total salary scale assumption of 5.50% (approximately) continue to be used to develop the Association's costs.

SECTION IV - APPENDIX

SCHEDULE 1

SUMMARY OF ACTUARIAL ASSUMPTIONS

The Entry Age Normal Actuarial Cost Method was used in conjunction with the following actuarial assumptions. The UAAL is being funded as a level percentage of payroll over a rolling 15 year period.

1. Interest: 7.75% per annum, compounded to a 7.90% effective rate.
2. Interest Credited to Employee Accounts: 7.75% per annum, compounded to a 7.90% effective rate.
3. Inflation: 4.00% per annum.
4. Asset Valuation: Smoothed actuarial value with a 120%/80% corridor around market value.
5. Salary Scale: See Schedule 4
6. Spouses and Dependents: 88% of male active members, 65% of active female members and 100% of active Safety members assumed married at retirement, with wives assumed three years younger than husbands.
7. Rates of Termination of Employment: See Schedule 2
8. Years of Life Expectancy After Retirement (Schedule 3):
 - General Males - RP 2000 Mortality Table for Males, with white collar adjustment, and no setback
 - General Females - RP 2000 Mortality Table for Females, with white collar adjustment, and no setback
 - Safety - RP 2000 Mortality Table for Males, with blue collar adjustment, and no setback
9. Years of Life Expectancy After Disability Retirement (Schedule 3):
 - General Males - RP 2000 Disabled Annuitant Mortality Table for Males, with no setback
 - General Females - RP 2000 Disabled Annuitant Mortality Table for Females, with no setback
 - Safety Males - RP 2000 Disabled Annuitant Mortality Table for Males, with a 2-year setback
 - Safety Females - RP 2000 Disabled Annuitant Mortality Table for Females, with a 2-year setback

10. Life Expectancy After Retirement for Employee Contribution Rate Purposes

- The basic employee contribution rates for General members were calculated on a unisex basis using the RP-2000 Healthy Annuitant Mortality Table (weighted 1/3 male and 2/3 female), with adjustment for white-collar workers.
- The basic employee contribution rates for Safety members were based upon the RP-2000 Healthy Annuitant Mortality Table (weighted 5/6 male and 1/6 female), with adjustment for blue-collar workers.

11. Reciprocity Assumption:

50% of members who terminate with a vested benefit are assumed to enter a reciprocal system.

12. Deferral Age for Vested Terminations:

55 for General members; 50 for Safety members.

SCHEDULE 2
PROBABILITIES OF SEPARATION FROM ACTIVE SERVICE
GENERAL MALES
PRIOR ASSUMPTIONS

Age	Ordinary Death	Duty Death	Withdrawal svc < 3	Withdrawal svc 3 to 4	Withdrawal svc 4 to 5	Withdrawal svc > 5	Ordinary Disability	Duty Disability	Service	Terminated Vested
20	0.00000	0.00000	0.15000	0.09000	0.09000	0.10000	0.00000	0.00000	0.00000	0.04125
21	0.00050	0.00010	0.15000	0.09000	0.09000	0.10000	0.00000	0.00010	0.00000	0.04125
22	0.00050	0.00010	0.15000	0.09000	0.09000	0.10000	0.00000	0.00010	0.00000	0.04125
23	0.00050	0.00010	0.15000	0.09000	0.09000	0.10000	0.00000	0.00010	0.00000	0.04125
24	0.00050	0.00010	0.15000	0.09000	0.09000	0.10000	0.00000	0.00010	0.00000	0.04125
25	0.00070	0.00010	0.15000	0.09000	0.09000	0.09800	0.00010	0.00010	0.00000	0.04125
26	0.00070	0.00010	0.15000	0.09000	0.09000	0.09600	0.00010	0.00010	0.00000	0.04125
27	0.00070	0.00010	0.15000	0.09000	0.09000	0.09400	0.00010	0.00010	0.00000	0.04125
28	0.00069	0.00010	0.15000	0.09000	0.09000	0.09200	0.00010	0.00010	0.00000	0.04125
29	0.00068	0.00010	0.15000	0.09000	0.09000	0.09000	0.00010	0.00010	0.00000	0.04125
30	0.00076	0.00010	0.15000	0.09000	0.09000	0.09000	0.00020	0.00010	0.00000	0.04125
31	0.00075	0.00010	0.15000	0.09000	0.09000	0.08500	0.00020	0.00010	0.00000	0.04125
32	0.00075	0.00010	0.15000	0.09000	0.09000	0.08000	0.00020	0.00010	0.00000	0.04125
33	0.00081	0.00010	0.15000	0.09000	0.09000	0.07500	0.00020	0.00010	0.00000	0.04125
34	0.00080	0.00010	0.15000	0.09000	0.09000	0.07000	0.00020	0.00010	0.00000	0.04125
35	0.00087	0.00009	0.15000	0.09000	0.09000	0.04400	0.00030	0.00010	0.00000	0.04125
36	0.00093	0.00009	0.15000	0.09000	0.09000	0.04000	0.00030	0.00020	0.00000	0.04125
37	0.00091	0.00009	0.15000	0.09000	0.09000	0.03600	0.00030	0.00020	0.00000	0.04125
38	0.00088	0.00019	0.15000	0.09000	0.09000	0.03300	0.00040	0.00020	0.00000	0.04125
39	0.00086	0.00019	0.15000	0.09000	0.09000	0.02900	0.00040	0.00030	0.00000	0.04125
40	0.00090	0.00018	0.09000	0.08000	0.07500	0.02700	0.00040	0.00040	0.00000	0.04125
41	0.00087	0.00018	0.09000	0.08000	0.07500	0.02600	0.00050	0.00050	0.00000	0.04125
42	0.00087	0.00018	0.09000	0.08000	0.07500	0.02400	0.00050	0.00060	0.00000	0.04000
43	0.00086	0.00018	0.09000	0.08000	0.07500	0.02200	0.00060	0.00070	0.00000	0.03750
44	0.00090	0.00018	0.09000	0.08000	0.07500	0.02000	0.00060	0.00080	0.00000	0.03500
45	0.00087	0.00018	0.09000	0.08000	0.07500	0.01800	0.00080	0.00100	0.00000	0.03125
46	0.00086	0.00018	0.09000	0.08000	0.07500	0.01700	0.00090	0.00120	0.00000	0.02875
47	0.00089	0.00018	0.09000	0.08000	0.07500	0.01700	0.00100	0.00140	0.00000	0.02500
48	0.00180	0.00018	0.09000	0.08000	0.07500	0.01600	0.00110	0.00160	0.00000	0.02125
49	0.00149	0.00018	0.09000	0.08000	0.07500	0.01500	0.00120	0.00180	0.00000	0.02125
50	0.00185	0.00018	0.09000	0.08000	0.07500	0.01400	0.00140	0.00200	0.04000	0.01875
51	0.00240	0.00018	0.09000	0.08000	0.07500	0.01300	0.00160	0.00250	0.04000	0.01625
52	0.00230	0.00018	0.09000	0.08000	0.07500	0.01200	0.00180	0.00300	0.04000	0.01250
53	0.00240	0.00018	0.09000	0.08000	0.07500	0.01100	0.00200	0.00350	0.04000	0.01250
54	0.00253	0.00027	0.09000	0.08000	0.07500	0.01000	0.00220	0.00400	0.06000	0.01250
55	0.00260	0.00028	0.09000	0.08000	0.07500	0.00900	0.00240	0.00450	0.10000	0.01250
56	0.00270	0.00028	0.09000	0.08000	0.07500	0.00900	0.00260	0.00500	0.09000	0.01250
57	0.00280	0.00037	0.09000	0.08000	0.07500	0.00800	0.00280	0.00550	0.10000	0.01250
58	0.00290	0.00037	0.09000	0.08000	0.07500	0.00800	0.00300	0.00600	0.11000	0.00875
59	0.00300	0.00037	0.09000	0.08000	0.07500	0.00700	0.00320	0.00650	0.14000	0.00875
60	0.00310	0.00048	0.09000	0.08000	0.07500	0.00600	0.00340	0.00700	0.16000	0.00500
61	0.00319	0.00048	0.09000	0.08000	0.07500	0.00500	0.00360	0.00750	0.20000	0.00500
62	0.00373	0.00057	0.09000	0.08000	0.07500	0.00500	0.00380	0.00800	0.45000	0.00500
63	0.00438	0.00057	0.09000	0.08000	0.07500	0.00500	0.00400	0.00850	0.24000	0.00500
64	0.00507	0.00057	0.09000	0.08000	0.07500	0.00500	0.00420	0.00900	0.27000	0.00500
65	0.00589	0.00070	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.29000	0.00000
66	0.00676	0.00070	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.30000	0.00000
67	0.00769	0.00080	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.35000	0.00000
68	0.00980	0.00080	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.40000	0.00000
69	0.01030	0.00090	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.60000	0.00000
70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000

SCHEDULE 2
PROBABILITIES OF SEPARATION FROM ACTIVE SERVICE
GENERAL FEMALES
PRIOR ASSUMPTIONS

Age	Ordinary Death	Duty Death	Withdrawal svc < 3	Withdrawal svc 3 to 5	Withdrawal svc > 5	Ordinary Disability	Duty Disability	Service	Terminated Vested
20	0.00020	0.00010	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.01625
21	0.00020	0.00010	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.01625
22	0.00020	0.00010	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.01625
23	0.00020	0.00010	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.01625
24	0.00020	0.00010	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.01625
25	0.00040	0.00010	0.13000	0.09000	0.09000	0.00005	0.00010	0.00000	0.01625
26	0.00040	0.00010	0.13000	0.09000	0.09000	0.00005	0.00010	0.00000	0.01875
27	0.00040	0.00010	0.13000	0.09000	0.09000	0.00005	0.00010	0.00000	0.02125
28	0.00040	0.00010	0.13000	0.09000	0.09000	0.00005	0.00010	0.00000	0.02375
29	0.00040	0.00010	0.13000	0.09000	0.09000	0.00005	0.00010	0.00000	0.02625
30	0.00040	0.00010	0.13000	0.09000	0.08000	0.00005	0.00010	0.00000	0.02625
31	0.00040	0.00010	0.13000	0.09000	0.07000	0.00005	0.00010	0.00000	0.02750
32	0.00040	0.00010	0.13000	0.09000	0.06000	0.00005	0.00010	0.00000	0.02750
33	0.00050	0.00010	0.13000	0.09000	0.05000	0.00005	0.00010	0.00000	0.02875
34	0.00050	0.00010	0.13000	0.09000	0.05000	0.00005	0.00010	0.00000	0.02875
35	0.00050	0.00009	0.13000	0.09000	0.04700	0.00035	0.00010	0.00000	0.02875
36	0.00050	0.00009	0.13000	0.09000	0.04300	0.00035	0.00010	0.00000	0.02875
37	0.00050	0.00009	0.13000	0.09000	0.03900	0.00035	0.00010	0.00000	0.02875
38	0.00060	0.00009	0.13000	0.09000	0.03600	0.00055	0.00010	0.00000	0.02875
39	0.00060	0.00009	0.13000	0.09000	0.03300	0.00055	0.00010	0.00000	0.02750
40	0.00070	0.00009	0.09000	0.08000	0.03000	0.00060	0.00010	0.00000	0.02750
41	0.00080	0.00009	0.09000	0.08000	0.02900	0.00065	0.00010	0.00000	0.02625
42	0.00080	0.00009	0.09000	0.08000	0.02900	0.00070	0.00010	0.00000	0.02625
43	0.00090	0.00009	0.09000	0.08000	0.02800	0.00070	0.00010	0.00000	0.02625
44	0.00090	0.00009	0.09000	0.08000	0.02700	0.00075	0.00020	0.00000	0.02500
45	0.00100	0.00009	0.09000	0.08000	0.02500	0.00080	0.00020	0.00000	0.02500
46	0.00100	0.00009	0.09000	0.08000	0.02300	0.00090	0.00030	0.00000	0.02375
47	0.00120	0.00009	0.09000	0.08000	0.02100	0.00100	0.00030	0.00000	0.02250
48	0.00120	0.00009	0.09000	0.08000	0.01900	0.00120	0.00040	0.00000	0.02250
49	0.00140	0.00009	0.09000	0.08000	0.01800	0.00130	0.00050	0.00000	0.02250
50	0.00150	0.00009	0.09000	0.08000	0.01400	0.00140	0.00060	0.06000	0.02125
51	0.00170	0.00009	0.09000	0.08000	0.01300	0.00300	0.00070	0.06000	0.02000
52	0.00180	0.00009	0.09000	0.08000	0.01200	0.00320	0.00080	0.06000	0.02000
53	0.00200	0.00009	0.09000	0.08000	0.01100	0.00340	0.00100	0.06000	0.01875
54	0.00220	0.00009	0.09000	0.08000	0.01000	0.00380	0.00110	0.06000	0.01750
55	0.00240	0.00009	0.09000	0.08000	0.01000	0.00420	0.00120	0.08000	0.01500
56	0.00260	0.00010	0.09000	0.08000	0.00800	0.00440	0.00130	0.08000	0.01250
57	0.00280	0.00010	0.09000	0.08000	0.00700	0.00460	0.00140	0.09000	0.01000
58	0.00300	0.00010	0.09000	0.08000	0.00600	0.00480	0.00150	0.10000	0.00750
59	0.00320	0.00010	0.09000	0.08000	0.00500	0.00500	0.00160	0.12000	0.00625
60	0.00340	0.00019	0.09000	0.08000	0.00500	0.00520	0.00180	0.15000	0.00375
61	0.00360	0.00019	0.09000	0.08000	0.00500	0.00540	0.00200	0.20000	0.00250
62	0.00390	0.00019	0.09000	0.08000	0.00500	0.00580	0.00220	0.29000	0.00125
63	0.00420	0.00019	0.09000	0.08000	0.00500	0.00600	0.00240	0.25000	0.00125
64	0.00450	0.00019	0.09000	0.08000	0.00500	0.00620	0.00260	0.29000	0.00000
65	0.00480	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.31000	0.00000
66	0.00510	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.35000	0.00000
67	0.00540	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.40000	0.00000
68	0.00570	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.45000	0.00000
69	0.00600	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.50000	0.00000
70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000

SCHEDULE 2
PROBABILITIES OF SEPARATION FROM ACTIVE SERVICE
SAFETY MEMBERS
PRIOR ASSUMPTIONS

Age	Ordinary Death	Duty Death	Withdrawal svc<5	Withdrawal svc >5	Ordinary Disability	Duty Disability	Service	Terminated Vested
20	0.00030	0.00052	0.07000	0.06000	0.00000	0.00110	0.00000	0.00000
21	0.00030	0.00052	0.07000	0.06000	0.00000	0.00120	0.00000	0.02500
22	0.00030	0.00052	0.07000	0.06000	0.00000	0.00130	0.00000	0.02500
23	0.00030	0.00052	0.07000	0.06000	0.00000	0.00150	0.00000	0.02500
24	0.00030	0.00052	0.07000	0.06000	0.00000	0.00180	0.00000	0.02500
25	0.00038	0.00052	0.07000	0.05800	0.00050	0.00230	0.00000	0.02500
26	0.00038	0.00052	0.07000	0.05800	0.00050	0.00280	0.00000	0.02500
27	0.00038	0.00052	0.07000	0.05700	0.00050	0.00320	0.00000	0.02500
28	0.00038	0.00052	0.07000	0.05700	0.00050	0.00320	0.00000	0.02500
29	0.00038	0.00052	0.07000	0.05500	0.00050	0.00400	0.00000	0.02500
30	0.00038	0.00052	0.07000	0.05200	0.00070	0.00500	0.00000	0.02500
31	0.00044	0.00052	0.07000	0.04800	0.00070	0.00570	0.00000	0.02500
32	0.00044	0.00052	0.07000	0.04500	0.00070	0.00600	0.00000	0.02500
33	0.00044	0.00052	0.07000	0.04100	0.00070	0.00620	0.00000	0.02500
34	0.00050	0.00060	0.07000	0.03700	0.00070	0.00640	0.00000	0.02500
35	0.00058	0.00060	0.07000	0.03400	0.00090	0.00640	0.00000	0.02500
36	0.00058	0.00060	0.07000	0.03100	0.00090	0.00650	0.00000	0.02500
37	0.00064	0.00068	0.07000	0.02700	0.00090	0.00660	0.00000	0.02500
38	0.00064	0.00068	0.07000	0.02300	0.00090	0.00670	0.00000	0.02500
39	0.00070	0.00068	0.07000	0.01900	0.00090	0.00670	0.00000	0.02500
40	0.00070	0.00075	0.07000	0.01500	0.00120	0.00680	0.00000	0.02250
41	0.00076	0.00075	0.07000	0.01100	0.00120	0.00690	0.00000	0.02000
42	0.00076	0.00075	0.07000	0.01000	0.00120	0.00690	0.00000	0.01750
43	0.00082	0.00082	0.07000	0.01000	0.00140	0.00700	0.00000	0.01500
44	0.00090	0.00082	0.07000	0.01000	0.00160	0.00710	0.00000	0.01500
45	0.00096	0.00090	0.07000	0.01000	0.00190	0.00980	0.00625	0.01500
46	0.00104	0.00090	0.07000	0.01000	0.00210	0.00980	0.00625	0.01500
47	0.00110	0.00097	0.07000	0.01000	0.00260	0.00980	0.01250	0.01500
48	0.00124	0.00097	0.07000	0.01000	0.00300	0.00980	0.01875	0.01500
49	0.00138	0.00105	0.07000	0.01000	0.00350	0.00980	0.01875	0.01500
50	0.00152	0.00112	0.07000	0.00000	0.00400	0.01000	0.06000	0.00000
51	0.00160	0.00120	0.07000	0.00000	0.00440	0.01250	0.05000	0.00000
52	0.00174	0.00127	0.07000	0.00000	0.00490	0.01500	0.05000	0.00000
53	0.00182	0.00135	0.07000	0.00000	0.00540	0.01750	0.05000	0.00000
54	0.00196	0.00142	0.07000	0.00000	0.00580	0.02000	0.05000	0.00000
55	0.00218	0.00150	0.07000	0.00000	0.00650	0.02250	0.30250	0.00000
56	0.00240	0.00157	0.07000	0.00000	0.00750	0.02380	0.20250	0.00000
57	0.00262	0.00165	0.07000	0.00000	0.00840	0.02510	0.20250	0.00000
58	0.00284	0.00172	0.07000	0.00000	0.00960	0.02650	0.25250	0.00000
59	0.00306	0.00180	0.07000	0.00000	0.01100	0.02810	0.30375	0.00000
60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
62	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
63	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
65	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
66	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
67	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
68	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000

SCHEDULE 2
PROBABILITIES OF SEPARATION FROM ACTIVE SERVICE
GENERAL MALES
RECOMMENDED ASSUMPTIONS

Age	Ordinary Death	Duty Death	Withdrawal svc < 2	Withdrawal svc 2 to 3	Withdrawal svc 3 to 5	Withdrawal svc > 5	Ordinary Disability	Duty Disability	Service	Terminated Vested
20	0.00000	0.00000	0.07500	0.15000	0.09000	0.10000	0.00000	0.00000	0.00000	0.12375
21	0.00050	0.00010	0.07500	0.15000	0.09000	0.10000	0.00000	0.00010	0.00000	0.12375
22	0.00050	0.00010	0.07500	0.15000	0.09000	0.10000	0.00000	0.00010	0.00000	0.12375
23	0.00050	0.00010	0.07500	0.15000	0.09000	0.10000	0.00000	0.00010	0.00000	0.12375
24	0.00050	0.00010	0.07500	0.15000	0.09000	0.10000	0.00000	0.00010	0.00000	0.12375
25	0.00070	0.00010	0.07500	0.15000	0.09000	0.09800	0.00010	0.00010	0.00000	0.12375
26	0.00070	0.00010	0.07500	0.15000	0.09000	0.09600	0.00010	0.00010	0.00000	0.12375
27	0.00070	0.00010	0.07500	0.15000	0.09000	0.09400	0.00010	0.00010	0.00000	0.12375
28	0.00069	0.00010	0.07500	0.15000	0.09000	0.09200	0.00010	0.00010	0.00000	0.12375
29	0.00068	0.00010	0.07500	0.15000	0.09000	0.09000	0.00010	0.00010	0.00000	0.12375
30	0.00076	0.00010	0.07500	0.15000	0.09000	0.09000	0.00020	0.00010	0.00000	0.12375
31	0.00075	0.00010	0.07500	0.15000	0.09000	0.08500	0.00020	0.00010	0.00000	0.12375
32	0.00075	0.00010	0.07500	0.15000	0.09000	0.08000	0.00020	0.00010	0.00000	0.12375
33	0.00081	0.00010	0.07500	0.15000	0.09000	0.07500	0.00020	0.00010	0.00000	0.12375
34	0.00080	0.00010	0.07500	0.15000	0.09000	0.07000	0.00020	0.00010	0.00000	0.12375
35	0.00087	0.00009	0.07500	0.15000	0.09000	0.04400	0.00030	0.00010	0.00000	0.12375
36	0.00093	0.00009	0.07500	0.15000	0.09000	0.04000	0.00030	0.00020	0.00000	0.12375
37	0.00091	0.00009	0.07500	0.15000	0.09000	0.03600	0.00030	0.00020	0.00000	0.12375
38	0.00088	0.00019	0.07500	0.15000	0.09000	0.03300	0.00040	0.00020	0.00000	0.12375
39	0.00086	0.00019	0.07500	0.15000	0.09000	0.02900	0.00040	0.00030	0.00000	0.12375
40	0.00090	0.00018	0.04500	0.09000	0.07500	0.02700	0.00040	0.00040	0.00000	0.12375
41	0.00087	0.00018	0.04500	0.09000	0.07500	0.02600	0.00050	0.00050	0.00000	0.12375
42	0.00087	0.00018	0.04500	0.09000	0.07500	0.02400	0.00050	0.00060	0.00000	0.12000
43	0.00086	0.00018	0.04500	0.09000	0.07500	0.02200	0.00060	0.00070	0.00000	0.11250
44	0.00090	0.00018	0.04500	0.09000	0.07500	0.02000	0.00060	0.00080	0.00000	0.10500
45	0.00087	0.00018	0.04500	0.09000	0.07500	0.01800	0.00080	0.00100	0.00000	0.09375
46	0.00086	0.00018	0.04500	0.09000	0.07500	0.01700	0.00090	0.00120	0.00000	0.08625
47	0.00089	0.00018	0.04500	0.09000	0.07500	0.01700	0.00100	0.00140	0.00000	0.07500
48	0.00180	0.00018	0.04500	0.09000	0.07500	0.01600	0.00110	0.00160	0.00000	0.06375
49	0.00149	0.00018	0.04500	0.09000	0.07500	0.01500	0.00120	0.00180	0.00000	0.06375
50	0.00185	0.00018	0.04500	0.09000	0.07500	0.01400	0.00140	0.00200	0.02000	0.05625
51	0.00240	0.00018	0.04500	0.09000	0.07500	0.01300	0.00160	0.00250	0.02000	0.04875
52	0.00230	0.00018	0.04500	0.09000	0.07500	0.01200	0.00180	0.00300	0.02000	0.03750
53	0.00240	0.00018	0.04500	0.09000	0.07500	0.01100	0.00200	0.00350	0.02000	0.03750
54	0.00253	0.00027	0.04500	0.09000	0.07500	0.01000	0.00220	0.00400	0.03000	0.03750
55	0.00260	0.00028	0.04500	0.09000	0.07500	0.00900	0.00240	0.00450	0.05000	0.03750
56	0.00270	0.00028	0.04500	0.09000	0.07500	0.00900	0.00260	0.00500	0.04500	0.03750
57	0.00280	0.00037	0.04500	0.09000	0.07500	0.00800	0.00280	0.00550	0.05000	0.03750
58	0.00290	0.00037	0.04500	0.09000	0.07500	0.00800	0.00300	0.00600	0.05500	0.02625
59	0.00300	0.00037	0.04500	0.09000	0.07500	0.00700	0.00320	0.00650	0.07000	0.02625
60	0.00310	0.00048	0.04500	0.09000	0.07500	0.00600	0.00340	0.00700	0.08000	0.01500
61	0.00319	0.00048	0.04500	0.09000	0.07500	0.00500	0.00360	0.00750	0.10000	0.01500
62	0.00373	0.00057	0.04500	0.09000	0.07500	0.00500	0.00380	0.00800	0.22500	0.01500
63	0.00438	0.00057	0.04500	0.09000	0.07500	0.00500	0.00400	0.00850	0.12000	0.01500
64	0.00507	0.00057	0.04500	0.09000	0.07500	0.00500	0.00420	0.00900	0.13500	0.01500
65	0.00589	0.00070	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.14500	0.00000
66	0.00676	0.00070	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.15000	0.00000
67	0.00769	0.00080	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.17500	0.00000
68	0.00980	0.00080	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00000
69	0.01030	0.00090	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.30000	0.00000
70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000

SCHEDULE 2
PROBABILITIES OF SEPARATION FROM ACTIVE SERVICE
GENERAL FEMALES
RECOMMENDED ASSUMPTIONS

Age	Ordinary Death	Duty Death	Withdrawal svc<1	Withdrawal svc 1 to 3	Withdrawal svc 3 to 5	Withdrawal svc>5	Ordinary Disability	Duty Disability	Service	Terminated Vested
20	0.00200	0.00010	0.06500	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.04875
21	0.00200	0.00010	0.06500	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.04875
22	0.00020	0.00010	0.06500	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.04875
23	0.00020	0.00010	0.06500	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.04875
24	0.00020	0.00010	0.06500	0.13000	0.09000	0.09000	0.00000	0.00010	0.00000	0.04875
25	0.00040	0.00010	0.06500	0.13000	0.09000	0.09000	0.00010	0.00010	0.00000	0.04875
26	0.00040	0.00010	0.06500	0.13000	0.09000	0.09000	0.00010	0.00010	0.00000	0.05625
27	0.00040	0.00010	0.06500	0.13000	0.09000	0.09000	0.00010	0.00010	0.00000	0.06375
28	0.00040	0.00010	0.06500	0.13000	0.09000	0.09000	0.00010	0.00010	0.00000	0.07125
29	0.00040	0.00010	0.06500	0.13000	0.09000	0.09000	0.00010	0.00010	0.00000	0.07875
30	0.00040	0.00010	0.06500	0.13000	0.09000	0.08000	0.00010	0.00010	0.00000	0.07875
31	0.00040	0.00010	0.06500	0.13000	0.09000	0.07000	0.00010	0.00010	0.00000	0.08250
32	0.00040	0.00010	0.06500	0.13000	0.09000	0.06000	0.00010	0.00010	0.00000	0.08250
33	0.00050	0.00010	0.06500	0.13000	0.09000	0.05000	0.00010	0.00010	0.00000	0.08625
34	0.00050	0.00010	0.06500	0.13000	0.09000	0.05000	0.00010	0.00010	0.00000	0.08625
35	0.00050	0.00009	0.06500	0.13000	0.09000	0.04700	0.00070	0.00010	0.00000	0.08625
36	0.00050	0.00009	0.06500	0.13000	0.09000	0.04300	0.00070	0.00010	0.00000	0.08625
37	0.00050	0.00009	0.06500	0.13000	0.09000	0.03900	0.00070	0.00010	0.00000	0.08625
38	0.00060	0.00009	0.06500	0.13000	0.09000	0.03600	0.00110	0.00010	0.00000	0.08625
39	0.00060	0.00009	0.06500	0.13000	0.09000	0.03300	0.00110	0.00010	0.00000	0.08250
40	0.00070	0.00009	0.04500	0.09000	0.08000	0.03000	0.00120	0.00010	0.00000	0.08250
41	0.00080	0.00009	0.04500	0.09000	0.08000	0.02900	0.00130	0.00010	0.00000	0.07875
42	0.00080	0.00009	0.04500	0.09000	0.08000	0.02900	0.00140	0.00010	0.00000	0.07875
43	0.00090	0.00009	0.04500	0.09000	0.08000	0.02800	0.00140	0.00010	0.00000	0.07875
44	0.00090	0.00009	0.04500	0.09000	0.08000	0.02700	0.00150	0.00020	0.00000	0.07500
45	0.00100	0.00009	0.04500	0.09000	0.08000	0.02500	0.00160	0.00020	0.00000	0.07500
46	0.00100	0.00009	0.04500	0.09000	0.08000	0.02300	0.00180	0.00030	0.00000	0.07125
47	0.00120	0.00009	0.04500	0.09000	0.08000	0.02100	0.00200	0.00030	0.00000	0.06750
48	0.00120	0.00009	0.04500	0.09000	0.08000	0.01900	0.00240	0.00040	0.00000	0.06750
49	0.00140	0.00009	0.04500	0.09000	0.08000	0.01800	0.00260	0.00050	0.00000	0.06750
50	0.00150	0.00009	0.04500	0.09000	0.08000	0.01400	0.00280	0.00060	0.03000	0.06375
51	0.00170	0.00009	0.04500	0.09000	0.08000	0.01300	0.00300	0.00070	0.03000	0.06000
52	0.00180	0.00009	0.04500	0.09000	0.08000	0.01200	0.00320	0.00080	0.03000	0.06000
53	0.00200	0.00009	0.04500	0.09000	0.08000	0.01100	0.00340	0.00100	0.03000	0.05625
54	0.00220	0.00009	0.04500	0.09000	0.08000	0.01000	0.00380	0.00110	0.03000	0.05250
55	0.00240	0.00010	0.04500	0.09000	0.08000	0.01000	0.00420	0.00120	0.04000	0.04500
56	0.00260	0.00010	0.04500	0.09000	0.08000	0.00800	0.00440	0.00130	0.04000	0.03750
57	0.00280	0.00010	0.04500	0.09000	0.08000	0.00700	0.00460	0.00140	0.04500	0.03000
58	0.00300	0.00010	0.04500	0.09000	0.08000	0.00600	0.00480	0.00150	0.05000	0.02250
59	0.00320	0.00010	0.04500	0.09000	0.08000	0.00500	0.00500	0.00160	0.06000	0.01875
60	0.00340	0.00019	0.04500	0.09000	0.08000	0.00500	0.00520	0.00180	0.07500	0.01125
61	0.00360	0.00019	0.04500	0.09000	0.08000	0.00500	0.00540	0.00200	0.10000	0.00750
62	0.00390	0.00019	0.04500	0.09000	0.08000	0.00500	0.00580	0.00220	0.14500	0.00375
63	0.00420	0.00019	0.04500	0.09000	0.08000	0.00500	0.00600	0.00240	0.12500	0.00375
64	0.00450	0.00019	0.04500	0.09000	0.08000	0.00500	0.00620	0.00260	0.14500	0.00000
65	0.00480	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.15500	0.00000
66	0.00510	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.17500	0.00000
67	0.00540	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00000
68	0.00570	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.22500	0.00000
69	0.00600	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.25000	0.00000
70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000

SCHEDULE 2
PROBABILITIES OF SEPARATION FROM ACTIVE SERVICE
SAFETY MEMBERS
RECOMMENDED ASSUMPTIONS

Age	Ordinary Death	Duty Death	Withdrawal svc < 1	Withdrawal svc 1 to 5	Withdrawal svc >5	Ordinary Disability	Duty Disability	Service	Terminated Vested
20	0.00030	0.00052	0.04667	0.07000	0.06000	0.00000	0.00110	0.00000	0.00000
21	0.00030	0.00052	0.04667	0.07000	0.06000	0.00000	0.00120	0.00000	0.03333
22	0.00030	0.00052	0.04667	0.07000	0.06000	0.00000	0.00130	0.00000	0.03333
23	0.00030	0.00052	0.04667	0.07000	0.06000	0.00000	0.00150	0.00000	0.03333
24	0.00030	0.00052	0.04667	0.07000	0.06000	0.00000	0.00180	0.00000	0.03333
25	0.00038	0.00052	0.04667	0.07000	0.05800	0.00050	0.00230	0.00000	0.03333
26	0.00038	0.00052	0.04667	0.07000	0.05800	0.00050	0.00280	0.00000	0.03333
27	0.00038	0.00052	0.04667	0.07000	0.05700	0.00050	0.00320	0.00000	0.03333
28	0.00038	0.00052	0.04667	0.07000	0.05700	0.00050	0.00320	0.00000	0.03333
29	0.00038	0.00052	0.04667	0.07000	0.05500	0.00050	0.00400	0.00000	0.03333
30	0.00038	0.00052	0.04667	0.07000	0.05200	0.00070	0.00500	0.00000	0.03333
31	0.00044	0.00052	0.04667	0.07000	0.04800	0.00070	0.00570	0.00000	0.03333
32	0.00044	0.00052	0.04667	0.07000	0.04500	0.00070	0.00600	0.00000	0.03333
33	0.00044	0.00052	0.04667	0.07000	0.04100	0.00070	0.00620	0.00000	0.03333
34	0.00050	0.00060	0.04667	0.07000	0.03700	0.00070	0.00640	0.00000	0.03333
35	0.00058	0.00060	0.04667	0.07000	0.03400	0.00090	0.00640	0.00000	0.03333
36	0.00058	0.00060	0.04667	0.07000	0.03100	0.00090	0.00650	0.00000	0.03333
37	0.00064	0.00068	0.04667	0.07000	0.02700	0.00090	0.00660	0.00000	0.03333
38	0.00064	0.00068	0.04667	0.07000	0.02300	0.00090	0.00670	0.00000	0.03333
39	0.00070	0.00068	0.04667	0.07000	0.01900	0.00090	0.00670	0.00000	0.03333
40	0.00070	0.00075	0.04667	0.07000	0.01500	0.00120	0.00680	0.00000	0.03000
41	0.00076	0.00075	0.04667	0.07000	0.01100	0.00120	0.00690	0.00000	0.02667
42	0.00076	0.00075	0.04667	0.07000	0.01000	0.00120	0.00690	0.00000	0.02333
43	0.00082	0.00082	0.04667	0.07000	0.01000	0.00140	0.00700	0.00000	0.02000
44	0.00090	0.00082	0.04667	0.07000	0.01000	0.00160	0.00710	0.00000	0.02000
45	0.00096	0.00090	0.04667	0.07000	0.01000	0.00190	0.00980	0.00417	0.02000
46	0.00104	0.00090	0.04667	0.07000	0.01000	0.00210	0.00980	0.00417	0.02000
47	0.00110	0.00097	0.04667	0.07000	0.01000	0.00260	0.00980	0.00833	0.02000
48	0.00124	0.00097	0.04667	0.07000	0.01000	0.00300	0.00980	0.01250	0.02000
49	0.00138	0.00105	0.04667	0.07000	0.01000	0.00350	0.00980	0.01250	0.02000
50	0.00152	0.00112	0.04667	0.07000	0.00000	0.00400	0.01000	0.04000	0.00000
51	0.00160	0.00120	0.04667	0.07000	0.00000	0.00440	0.01250	0.03333	0.00000
52	0.00174	0.00127	0.04667	0.07000	0.00000	0.00490	0.01500	0.03333	0.00000
53	0.00182	0.00135	0.04667	0.07000	0.00000	0.00540	0.01750	0.03333	0.00000
54	0.00196	0.00142	0.04667	0.07000	0.00000	0.00580	0.02000	0.03333	0.00000
55	0.00218	0.00150	0.04667	0.07000	0.00000	0.00650	0.02250	0.20167	0.00000
56	0.00240	0.00157	0.04667	0.07000	0.00000	0.00750	0.02380	0.13500	0.00000
57	0.00262	0.00165	0.04667	0.07000	0.00000	0.00840	0.02510	0.13500	0.00000
58	0.00284	0.00172	0.04667	0.07000	0.00000	0.00960	0.02650	0.16833	0.00000
59	0.00306	0.00180	0.04667	0.07000	0.00000	0.01100	0.02810	0.20250	0.00000
60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
61	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
62	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
63	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
64	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
65	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
66	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
67	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
68	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
69	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000

SCHEDULE 3
YEARS OF LIFE EXPECTANCY AFTER SERVICE RETIREMENT
CURRENT ASSUMPTIONS

Age	General		Safety		Age	GENERAL		Safety	
	Male	Female	Male	Female		Male	Female	Male	Female
20	58.04	63.01	56.26	61.99	55	26.77	29.55	24.67	28.19
21	57.09	62.03	55.31	61.00	56	25.91	28.65	23.84	27.27
22	56.15	61.05	54.36	60.02	57	25.05	27.76	23.02	26.36
23	55.21	60.07	53.42	59.03	58	24.19	26.88	22.21	25.45
24	54.26	59.08	52.47	58.04	59	23.32	26.00	21.40	24.56
25	53.32	58.10	51.52	57.06	60	22.46	25.13	20.61	23.69
26	52.38	57.12	50.57	56.07	61	21.61	24.27	19.82	22.83
27	51.43	56.13	49.62	55.09	62	20.76	23.42	19.05	21.98
28	50.49	55.15	48.67	54.10	63	19.93	22.57	18.28	21.16
29	49.54	54.17	47.72	53.11	64	19.11	21.74	17.53	20.34
30	48.60	53.19	46.77	52.13	65	18.31	20.91	16.79	19.55
31	47.66	52.21	45.82	51.15	66	17.51	20.10	16.06	18.76
32	46.72	51.23	44.88	50.16	67	16.74	19.30	15.35	17.99
33	45.80	50.26	43.95	49.19	68	15.97	18.51	14.66	17.24
34	44.88	49.29	43.02	48.21	69	15.22	17.74	13.97	16.49
35	43.96	48.32	42.10	47.23	70	14.48	16.98	13.31	15.77
36	43.06	47.35	41.18	46.26	71	13.76	16.23	12.66	15.06
37	42.16	46.39	40.27	45.29	72	13.04	15.26	12.03	14.36
38	41.26	45.43	39.36	44.32	73	12.35	14.54	11.41	13.69
39	40.37	44.46	38.46	43.35	74	11.67	13.84	10.81	13.03
40	39.49	43.51	37.56	42.38	75	11.02	13.16	10.23	12.40
41	38.61	42.55	36.67	41.42	76	10.38	12.49	9.66	11.77
42	37.73	41.60	35.78	40.45	77	9.77	11.84	9.12	11.17
43	36.85	40.65	34.89	39.49	78	9.18	11.21	8.60	10.57
44	35.99	39.70	34.01	38.54	79	8.61	10.59	8.09	10.00
45	35.13	38.76	33.13	37.59	80	8.06	10.00	7.61	9.43
46	34.27	37.83	32.26	36.63	81	7.54	9.43	7.15	8.89
47	33.43	36.89	31.39	35.69	82	7.04	8.87	6.71	8.37
48	32.59	35.96	30.53	34.74	83	6.56	8.34	6.29	7.87
49	31.75	35.04	29.68	33.80	84	6.11	7.84	5.89	7.40
50	30.93	34.12	28.83	32.86	85	5.69	7.35	5.52	6.95
51	30.11	33.20	27.99	31.93	86	5.29	6.90	5.17	6.53
52	29.29	32.28	27.16	30.99	87	4.92	6.47	4.83	6.14
53	28.46	31.37	26.32	30.05	88	4.58	6.08	4.53	5.78
54	27.62	30.46	25.49	29.12	89	4.26	5.72	4.24	5.45
					90	3.97	5.38	3.98	5.15

General Males: RP 2000 Mortality Table for Males, with white collar adjustment, and no setback
 General Females: RP 2000 Mortality Table for Females, with white collar adjustment, and no setback
 Safety Males: RP 2000 Mortality Table for Males, with blue collar adjustment, and no setback
 Safety Females: RP 2000 Mortality Table for Females, with blue collar adjustment, and no setback

SCHEDULE 3

**YEARS OF LIFE EXPECTANCY AFTER DISABILITY RETIREMENT
GENERAL MEMBERS – CURRENT ASSUMPTIONS**

Age	Years of Life Expectancy		Age	Years of Life Expectancy	
	Male	Female		Male	Female
20	31.51	47.16	55	15.98	21.73
21	30.51	46.16	56	15.55	21.09
22	30.20	45.50	57	15.12	20.46
23	29.89	44.84	58	14.70	19.83
24	29.57	44.17	59	14.27	19.22
25	29.24	43.50	60	13.86	18.62
26	28.90	42.82	61	13.44	18.02
27	28.55	42.14	62	13.03	17.43
28	28.20	41.45	63	12.62	16.85
29	27.84	40.76	64	12.21	16.27
30	27.47	40.06	65	11.80	15.70
31	27.09	39.36	66	11.39	15.14
32	26.71	38.65	67	10.99	14.58
33	26.31	37.94	68	10.59	14.04
34	25.90	37.22	69	10.20	13.50
35	25.49	36.49	70	9.81	12.98
36	25.07	35.76	71	9.43	12.46
37	24.63	35.03	72	9.05	11.96
38	24.19	34.28	73	8.69	11.47
39	23.73	33.54	74	8.33	11.00
40	23.27	32.79	75	7.99	10.53
41	22.80	32.03	76	7.65	10.09
42	22.31	31.26	77	7.33	9.65
43	21.81	30.49	78	7.02	9.23
44	21.30	29.72	79	6.72	8.81
45	20.78	28.94	80	6.43	8.42
46	20.25	28.15	81	6.16	8.03
47	19.73	27.38	82	5.89	7.66
48	19.23	26.62	83	5.63	7.29
49	18.73	25.88	84	5.38	6.94
50	18.25	25.15	85	5.14	6.61
51	17.78	24.44	86	4.90	6.28
52	17.32	23.74	87	4.66	5.97
53	16.86	23.06	88	4.41	5.67
54	16.42	22.39	89	4.16	5.39
			90	3.90	5.12

Males: RP 2000 Disabled Annuitant Mortality Table for Males, and no setback
 Females: RP 2000 Disabled Annuitant Mortality Table for Females, and no setback

SCHEDULE 3

**YEARS OF LIFE EXPECTANCY AFTER DISABILITY RETIREMENT
SAFETY MEMBERS –CURRENT ASSUMPTIONS**

Age	Years of Life Expectancy		Age	Years of Life Expectancy	
	Male	Female		Male	Female
20	33.51	49.16	55	16.86	23.06
21	32.51	48.16	56	16.42	22.39
22	31.51	47.16	57	15.98	21.73
23	30.51	46.16	58	15.55	21.09
24	30.20	45.50	59	15.12	20.46
25	29.89	44.84	60	14.70	19.83
26	29.57	44.17	61	14.27	19.22
27	29.24	43.50	62	13.86	18.62
28	28.90	42.82	63	13.44	18.02
29	28.55	42.14	64	13.03	17.43
30	28.20	41.45	65	12.62	16.85
31	27.84	40.76	66	12.21	16.27
32	27.47	40.06	67	11.80	15.70
33	27.09	39.36	68	11.39	15.14
34	26.71	38.65	69	10.99	14.58
35	26.31	37.94	70	10.59	14.04
36	25.90	37.22	71	10.20	13.50
37	25.49	36.49	72	9.81	12.98
38	25.07	35.76	73	9.43	12.46
39	24.63	35.03	74	9.05	11.96
40	24.19	34.28	75	8.69	11.47
41	23.73	33.54	76	8.33	11.00
42	23.27	32.79	77	7.99	10.53
43	22.80	32.03	78	7.65	10.09
44	22.31	31.26	79	7.33	9.65
45	21.81	30.49	80	7.02	9.23
46	21.30	29.72	81	6.72	8.81
47	20.78	28.94	82	6.43	8.42
48	20.25	28.15	83	6.16	8.03
49	19.73	27.38	84	5.89	7.66
50	19.23	26.62	85	5.63	7.29
51	18.73	25.88	86	5.38	6.94
52	18.25	25.15	87	5.14	6.61
53	17.78	24.44	88	4.90	6.28
54	17.32	23.74	89	4.66	5.97
			90	4.41	5.67

Males: RP 2000 Disabled Annuitant Mortality Table for Males, with a 2-year setback
 Females: RP 2000 Disabled Annuitant Mortality Table for Females, with a 2-year setback

SCHEDULE 4
SALARY INCREASE ASSUMPTION

Years of Service	General Members	Safety Members
0	6.00%	6.25%
1	6.00%	6.25%
2	6.00%	6.25%
3	6.00%	6.25%
4	6.00%	6.25%
5	6.00%	6.25%
6	6.00%	6.25%
7	6.00%	6.25%
8	6.00%	6.25%
9	6.00%	6.25%
10	6.00%	6.25%
11	6.00%	6.25%
12	6.00%	6.25%
13	6.00%	6.25%
14	6.00%	6.25%
15	6.00%	6.25%
16	4.50%	6.25%
17	4.50%	6.25%
18	4.50%	6.25%
19	4.50%	6.25%
20 or more	4.50%	4.50%