

# Analysis of Early Retirement Incentive Program (ERIP) for the **Everett** Retirement System





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# INTRODUCTION

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The Public Employee Retirement Administration Commission (PERAC) is pleased to release our analysis of Section 66 of Chapter 188 of the Acts of 2010, *An Act Relative to Municipal Relief* which established a local option to allow cities and towns to offer an Early Retirement Incentive Program (ERIP) to employees. The ERIP was adopted by the City of Everett. Paragraph (f) of the law directed municipalities that established an ERIP to provide PERAC with the necessary information to be able to complete an analysis of the costs and liabilities attributable to the additional benefits payable in accordance with the Act.

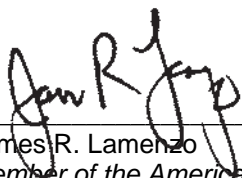
The law provides that retirement allowances of members who participated in the ERIP be determined by adding up to 3 years to the member's age and/or creditable service (any combination in full years up to a maximum of 3 years). A member's enhanced benefit cannot exceed 80% of the average rate of annual compensation used in his/her calculation. Members retiring under the program had effective dates of retirement between February 14, 2011 and March 14, 2011.

This study was based on active member data as of December 31, 2009, and additional data for retirees who were eligible for and elected the ERIP. All data was supplied by the Retirement Board. We previously reviewed the December 31, 2009 data as part of the 2010 data submission process. We reviewed each member's data as both an active and retired member for reasonableness and consistency.

We used the investment return assumption used in the most recent actuarial valuation report. For all other assumptions, we used the standard PERAC assumption set for performing actuarial valuations as of January 1, 2010. These assumptions are the same as the assumptions used in your last actuarial valuation performed as of January 1, 2010. The assumptions are shown at the back of this report.

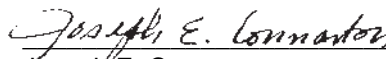
We believe this report represents an accurate appraisal of the costs and liabilities of the ERIP for the retirement system. This analysis was performed in accordance with generally accepted actuarial principles and practices relating to pension plans. In our opinion, the actuarial assumptions used in this report are reasonable, related to plan experience and expectations, and represent our best estimate of anticipated experience.

Respectfully submitted,  
Public Employee Retirement Administration Commission



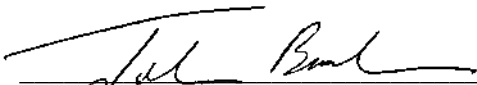
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Dated: May 4, 2012

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# COST ANALYSIS

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## Methodology

The results of our analysis for each governmental unit that accepted the ERIP are presented on the following pages. Participating units had the option to limit the number of years and/or the number of members eligible to retire under the program. Such limitations are noted.

Our analysis of the cost of the ERIP consisted of measuring the change in both the actuarial accrued liability and normal cost before and after the application of the enhanced benefit. All participants in the ERIP had to forego their right to accrued sick and vacation time. All monies that would have been paid to the participant are instead to be paid to the retirement system to reduce the additional pension liability resulting from this program. The amortization of the increase in actuarial accrued liability and the normal cost form the basis of the impact of the ERIP on the plan's funding schedule. These items are discussed below.

## Actuarial Accrued Liability

We measured the increase in actuarial accrued liability due to the incentive for each member who retired under the program. First, we valued the group as active members on January 1, 2010 (including any changes to reflect service adjustments made after January 1, 2010, such as service buy-backs). This calculation determines the liability attributable to the employees who elected the ERIP exclusive of the additional liability associated with the incentive program. These results were then brought forward on an actuarial basis to reflect the estimated accrued liability as of the average retirement date of March 1, 2011.

We then valued the same group as retirees after the application of the ERIP. These liabilities were determined as of March 1, 2011.

The accrued liability for the members as retirees including the ERIP less the accrued liability for the members as active employees excluding the ERIP represents the increase in accrued liability due to the ERIP. The money that would have been paid to participants in the ERIP for accrued sick and vacation time is used to reduce the additional liability. This net increase will be amortized over 10 years in equal installments and shall separately be identified in the system's funding schedule. We assumed the amortization of the increase in liability would begin with the FY14 appropriation.

## Normal Cost

The increase in actuarial liability is somewhat offset by a decrease in normal cost. The normal cost, or actuarial cost for the current year for active members, is shown as of January 1, 2010. There is no normal cost for retired members. Any decrease in normal cost for a retiring member would only be expected to last for a few years (the period the member would have remained in active service if the ERIP were not implemented).

# COST ANALYSIS BY GOVERNMENTAL UNIT *(continued)*

## City of Everett

Actives	
Number of Members	10
Average Service	26.2
Average Compensation	\$60,511

Retirees	
Number of Members	10
Average Age	59.9
Average Annual Benefit	\$41,062

	As Actives	As Retirees
Total Regular Compensation	\$605,100	N/A
Total Normal Cost	\$95,300	N/A
Employee Contributions	\$44,400	N/A
Net Employer Normal Cost	\$50,900	N/A
Actuarial Liability (as of March 1, 2011)	\$3,683,900	\$4,803,000

Increase in Actuarial Liability (as of March 1, 2011)	\$1,119,100
Less: Accrued sick and vacation time paid to system	\$80,100
Net Increase in Unfunded Actuarial Liability (as of March 1, 2011)	\$1,039,000
Amortization of Increase for FY14 (assumed payment July 1)	
10-year level basis	\$171,600

The above results provide a measure of the increase in actuarial accrued liability and decrease in normal cost due to the ERIP. The actuarial liability and normal cost were determined as active members (before the implementation of the ERIP) and as retired members (with the enhanced ERIP benefit).

For active members, average service reflects service as of January 1, 2010 but excludes any enhanced service provided by the ERIP. For retired members, the averages are as of March 1, 2011.

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## IMPACT ON FUNDING SCHEDULE

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A complete funding schedule including the ERIP has not been developed as part of this report. The Board may adopt an increase in the current funding schedule to reflect the amortization of the increase in accrued liability. PERAC will be completing an actuarial valuation during 2012 which will include the cost of the ERIP. We are available to work with the Board to develop alternative funding schedules.

### **Amortization of the Increase in Actuarial Accrued Liability**

The bottom section of the cost page for each governmental unit shows the amortization of the increase in actuarial accrued liability on a ten-year level basis. This basis requires an annual funding amount of \$171,600 from FY14 through FY23. Future system appropriations will reflect these unit costs.

<b>Governmental Unit</b>	<b>Level, 10-year Effective FY14</b>
City of Everett	\$171,600
<b>Total</b>	<b>\$171,600</b>

The legislation required that the increased cost be amortized on a 10-year level basis in equal installments.

### **Decrease in Normal Cost**

There is a decrease in employer normal cost for all units of approximately \$50,900 in FY13 for retiring members since normal cost accrues only for active members. This decrease is only expected to last a few years (the period the member would have remained in service if the ERIP were not implemented). This decrease will be partially offset by the normal cost for any members hired to replace retiring members. Any decrease in employer normal cost will be reflected in future actuarial valuations and corresponding funding schedules. We have not estimated the normal cost for new hires as part of this study.





# ACTUARIAL ASSUMPTIONS *(continued)*

## Retirement

Age	Groups 1 & 2		Group 4
	Male	Female	
45	0.000	0.000	0.010
46	0.000	0.000	0.010
47	0.000	0.000	0.010
48	0.000	0.000	0.010
49	0.000	0.000	0.010
50	0.010	0.015	0.020
51	0.010	0.015	0.020
52	0.010	0.020	0.020
53	0.010	0.025	0.050
54	0.020	0.025	0.075
55	0.020	0.055	0.150
56	0.025	0.065	0.100
57	0.025	0.065	0.100
58	0.050	0.065	0.100
59	0.065	0.065	0.150
60	0.120	0.050	0.200
61	0.200	0.130	0.200
62	0.300	0.150	0.250
63	0.250	0.125	0.250
64	0.220	0.180	0.300
65	0.400	0.150	1.000
66	0.250	0.200	1.000
67	0.250	0.200	1.000
68	0.300	0.250	1.000
69	0.300	0.200	1.000
70	1.000	1.000	1.000

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# ACTUARIAL ASSUMPTIONS *(continued)*

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Disability      Based on an analysis of past experience. Sample annual rates are shown below.

Age	<u>Groups 1 &amp; 2</u>	Group 4
20	0.00010	0.0010
30	0.00030	0.0030
40	0.00101	0.0030
50	0.00192	0.0125
60	0.00280	0.0085

Based on an analysis of past experience. It is also assumed that the percentage of job-related disabilities is 55% for Groups 1 & 2 and 90% for Group 4.

## Withdrawal

Based on analysis of past experience. Annual rates are based on years of service. Sample annual rates for Groups 1 and 2 are shown below. For Group 4 members the rate is 0.015 each year for service up to and including 10 years. No withdrawal is assumed thereafter.

## Groups 1 & 2

Service	Groups 1 & 2
0	0.150
5	0.076
10	0.054
15	0.033
20	0.020



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