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October 6, 2015

State of Alaska
The Alaska Retirement Management Board
The Department of Revenue, Treasury Division
The Department of Administration, Division of Retirement and Benefits
P.O. Box 110203
Juneau, AK 99811-0203

Certification of Actuarial Valuation

Dear Members of The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration:

This report summarizes the annual actuarial valuation results of the State of Alaska Public Employees' Retirement System (PERS) as of June 30, 2014 performed by Buck Consultants, LLC.

The actuarial valuation is based on financial information provided in the financial statements audited by KPMG LLP and member data provided by the Division of Retirement and Benefits and summarized in this report. The benefits considered are those delineated in Alaska statutes effective June 30, 2014. The actuary did not verify the data submitted, but did perform tests for consistency and reasonableness.

All costs, liabilities and other factors under the System were determined in accordance with generally accepted actuarial principles and procedures. An actuarial cost method is used to measure the actuarial liabilities which we believe is reasonable. Buck Consultants, LLC is solely responsible for the actuarial data and actuarial results presented in this report. This report fully and fairly discloses the actuarial position of the System.

The State of Alaska Public Employees' Retirement System is funded by Employer, State, and Member Contributions in accordance with the funding policy adopted by the Alaska Retirement Management Board (Board) and as required by Alaska state statutes. The funding objective for the State of Alaska Public Employees' Retirement System is to pay required contributions that remain level as a percent of total PERS Compensation. The Board has also established a funding policy objective that the required contributions be sufficient to pay the Normal Costs of active plan members, System expenses, and amortize the Unfunded Actuarial Accrued Liability as a level percentage of payroll over a closed 25-year period and as required by Alaska state statutes.

Actuarial Section

In accordance with Senate Bill 119, signed into law May 28, 2014, and HB 385, signed into law June 23, 2014, the following changes are effective for this June 30, 2014 actuarial valuation:

- The amortization method used for funding changed from the level dollar amount method to the level percentage of payroll method, and the amortization period was re-initialized to a closed 25-year period as of June 30, 2014.
- The additional state contribution for fiscal year ending June 30, 2015 is exactly \$1,000,000,000.
- The two-year rate setting time lag is intended to be eliminated. The two-year lag in the setting of contribution rates is replaced by a two-year roll forward of liabilities and projected normal costs and a one-year roll forward of June 30, 2015 assets.
- The Actuarial Value of Assets is reset to the Fair Value of Assets as of June 30, 2014. The five-year smoothing method with grow-in will be implemented over the next five years.
- The 20% corridor over/under the Fair Value of Assets is eliminated in the calculation of the Actuarial Value of Assets.

The compensation used to determine required contributions is the total compensation of all active members in PERS, including those hired after July 1, 2006 who are members of the Defined Contribution Retirement (DCR) Plan. This objective is currently being met and is projected to continue to be met.

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the System and reasonable long-term expectations, and represent our best estimate of the anticipated long-term experience under the System. The actuary performs an analysis of System experience periodically and recommends changes if, in the opinion of the actuary, assumption changes are needed to more accurately reflect expected future experience. The last full experience analysis was performed in 2014 covering experience for the period July 1, 2009 to June 30, 2013. Changes in actuarial assumptions were recommended by the actuary as a result of the 2014 experience analysis and adopted by the Board. A review of the healthcare assumptions was performed for this actuarial valuation and changes were made to the healthcare cost trend rates and the per capita claim cost rates effective June 30, 2014 to better reflect expected future healthcare experience. A summary of the actuarial assumptions and methods used in this actuarial valuation are shown in Section 6.

The assumptions and methods used to calculate the Actuarially Determined Contribution (ADC) of the Employers to the State of Alaska Public Employees' Retirement System as outlined in this report and all supporting schedules meet the parameters and requirements for disclosure of Governmental Accounting Standards Board (GASB) Statements No. 67, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans, and No. 43, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans. Based on member data and asset information provided by the Division of Retirement and Benefits, we have prepared the trend data schedule under GASB No. 43 that is included in the Financial Section of the CAFR. We have also prepared the member data tables shown in Section 5 of this report for the Statistical Section of the CAFR, and the summary of actuarial assumptions, solvency test, and analysis of financial experience for the Actuarial Section of the CAFR.

Both of the undersigned are Associates of the Society of Actuaries and Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all Applicable Actuarial Standards of Practice. We are available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate.

Respectfully submitted,

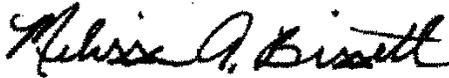


David H. Sliskinsky, ASA, MAAA, FCA
Principal, Consulting Actuary



Todd D. Kanaster, ASA, MAAA, FCA
Senior Consultant

The undersigned actuary is responsible for all assumptions related to the average annual per capita health claims cost and the health care cost trend rates, and hereby affirms her qualification to render opinions in such matters, in accordance with the qualification standards of the American Academy of Actuaries.



Melissa A. Bissett, FSA, MAAA
Senior Consultant, Health & Productivity

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The funding method used in this valuation was adopted by the Board in October 2006. The asset smoothing method used to determine valuation assets was changed effective June 30, 2014.

Benefits valued are those delineated in Alaska State statutes as of the valuation date. Changes in State statutes effective after the valuation date are not taken into consideration in setting the assumptions and methods.

A. Actuarial Method – Entry Age Actuarial Cost

Liabilities and contributions shown in the report are computed using the Entry Age Actuarial Cost method of funding. Any funding surpluses or unfunded accrued liability is amortized over 25 years as a level percentage of payroll amount. State statutes allow the contribution rate to be determined on payroll for all members, defined benefit and defined contribution member payroll combined.

Projected pension and postemployment healthcare benefits were determined for all active members. Cost factors designed to produce annual costs as a constant percentage of each member's expected compensation in each year for pension benefits (constant dollar amount for healthcare benefits) from the assumed entry age to the assumed retirement age were applied to the projected benefits to determine the normal cost (the portion of the total cost of the plan allocated to the current year under the method). The normal cost is determined by summing intermediate results for active members and determining an average normal cost rate which is then related to the total payroll of active members. The actuarial accrued liability for active members (the portion of the total cost of the plan allocated to prior years under the method) was determined as the excess of the actuarial present value of projected benefits over the actuarial present value of future normal costs.

The actuarial accrued liability for retired members and their beneficiaries currently receiving benefits, terminated vested members and disabled members not yet receiving benefits was determined as the actuarial present value of the benefits expected to be paid. No future normal costs are payable for these members.

The actuarial accrued liability under this method at any point in time is the theoretical amount of the fund that would have been accumulated had annual contributions equal to the normal cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date). The unfunded actuarial accrued liability is the excess of the actuarial accrued liability over the actuarial value of plan assets measured on the valuation date.

Under this method, experience gains or losses, i.e., decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions, adjust the unfunded actuarial accrued liability.

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B. Valuation of Assets

The actuarial asset value was reinitialized to equal Fair Value of Assets as of June 30, 2014. Beginning in 2015, the asset value method will recognize 20% of the gain or loss each year, for a period of up to 5 years. All assets are valued at fair value. Assets are accounted for on an accrued basis and are taken directly from financial statements audited by KPMG LLP.

C. Changes in Methods since the Prior Valuation

In accordance with Senate Bill 119, signed into law May 28, 2014, and HB 385, signed into law June 23, 2014, the following changes are effective for this June 30, 2014 actuarial valuation:

- The amortization method used for funding changed from the level dollar amount method to the level percentage of payroll method, and the amortization period was re-initialized to a closed 25-year period as of June 30, 2014.
- The additional state contribution for fiscal year ending June 30, 2015 is exactly \$1,000,000,000.
- The two-year rate setting time lag is intended to be eliminated. The two-year lag in the setting of contribution rates is replaced by a two-year roll forward of liabilities and projected normal costs and a one-year roll forward of June 30, 2015 assets.
- The Actuarial Value of Assets is reset to the Fair Value of Assets as of June 30, 2014. The five-year smoothing method with grow-in will be implemented over the next five years.
- The 20% corridor over/under the Fair Value of Assets is eliminated in the calculation of the Actuarial Value of Assets.

D. Valuation of Medical Benefits

This section outlines the detailed methodology used to develop the initial per capita claims cost rates for the State of Alaska Public Employees' Retirement System postemployment healthcare plan. Note that methodology reflects the results of our annual experience rate update for the period July 1, 2014 to June 30, 2015.

Base claims cost rates are incurred healthcare costs expressed as a rate per member per year. Ideally, claims cost rates should be derived for each significant component of cost that can be expected to require differing projection assumptions or methods, i.e., medical claims, prescription drug claims, administrative costs, etc. Separate analysis is limited by the availability and credibility of cost and enrollment data for each component of cost. This valuation reflects non-prescription claims separated by Medicare status, including eligibility for free Part A coverage. Prescription costs are analyzed separately as in prior valuations. Administrative costs are assumed in the final per capita claims cost rates used for valuation purposes, as described below. Analysis to date on Medicare Part A coverage is limited since Part A claim data is not available by individual, nor is this status incorporated into historical claim data.

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We analyzed HealthSmart management level reporting for fiscal 2011 through 2014 and derived recommended base claims cost rates as described in the following steps:

1. Based on analysis described in our Experience Study, dental, vision and audio claims (DVA) are excluded from data analyzed for this valuation.
2. Available historic management level reporting from HealthSmart does not show claims or enrollment separately for Medicare and non-Medicare plan participants, but does include overall statistics as to the percentage of claims and enrollment attributable to both groups. Historical claim level reporting and estimated impacts of Medicare coordination and plan design were used to augment cost data by Medicare status. Aetna does provide separate experience by Medicare status and will be incorporated into per capita rate development as credible experience emerges.
3. Alaska retirees who do not have 40 quarters of Medicare-covered compensation do not qualify for Medicare Part A coverage free of charge. This is a relatively small and closed group. Medicare was applied to State employment for all employees hired after March 31, 1986. For these “no-Part A” individuals, the State is the primary payer for hospital bills and other Part A services. Thus, claims costs are higher for the no-Part A group. To date, claim experience is not available separately for participants with both Medicare Parts A and B and those with Part B only. Therefore, higher no-Part A claims are spread across the entire retired population and have been applied to future claims of current active employees projected to retire in the future. To the extent that no-Part A claims can be isolated and applied strictly to the appropriate closed group, actuarial accrued liability will be more accurate and will be lower. The smaller the no-Part A population, the more accrued liabilities will decrease.

Based on census data received from Aetna, 0.33% of the current retiree (including dependents) population was identified as having coverage only under Medicare Part B. For future retirees, we assume their Part A eligible status based on a combination of date of hire and/or re-hire, date of birth, tier, etc.

All claims cost rates developed from management level reporting have been compared to similar rates developed from claim level data.

4. The steps above result in separate incurred claims cost rates for medical and prescription benefits for non-Medicare, Medicare Part B only and Medicare Part A&B members for the past four fiscal years. Medical claims cost rates reflect differing average ages and levels of Medicare coordination for each group. Prescription claims cost rates reflect differing average ages. We deemed incurred claim data from HealthSmart management reports to be complete for fiscal 2011, 2012 and 2013. Fiscal 2014 medical claim data was completed using a factor of 0.81; fiscal 2014 prescription claim data was completed using a factor of 0.92 – these factors were derived from historic completion patterns for AlaskaCare retiree claims. Incurred claim cost rates are projected forward to the valuation year using a blend of Alaska plan-specific trend and national trend rates over the same period, with Alaska experience receiving 75% weight, national trend 25%. These weighted trend factors for this purpose for the current valuation are as follows:

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Alaska-Specific and National Average
 Weighted Trend from Experience Period to
 Valuation Year

Experience Period	Medical	Prescription	Weighting Factors
FY 2010 to FY 2011	8.1%	4.5%	10.0%
FY 2011 to FY 2012	8.3%	5.1%	20.0%
FY 2012 to FY 2013	8.9%	7.1%	40.0%
FY 2013 to FY 2014	7.7%	6.5%	30.0%

5. For per capital claim cost development, medical claims were trended on a composite basis for pre-Medicare vs. Medicare due to limited reporting as noted in #2 above. Trend assumptions used for rate development are assessed annually and as additional/improved reporting becomes available, we will incorporate into rate development as appropriate.
6. Healthcare Reform legislation passed on March 23, 2010 included several provisions with potential implications for the State of Alaska Retiree Health Plan liability. Buck evaluated the impact of the following provisions; however, none of the impacts other than noted fees have been included in the valuation results.

Because the State plan is retiree-only, and was in effect at the time the legislation was enacted, not all provisions are required. Unlimited lifetime benefits and dependent coverage to age 26 are two of these provisions. We reviewed the impact of including these provisions, but there was no decision made to adopt them, and no requirement to do so.

The Plan will be subject to the high cost plan excise tax (Cadillac tax). Based upon guidance available at the time of disclosure, Buck estimated the impact to be immaterial to the accrued liability based on a blend of pre-Medicare and Medicare retirees and the projected impact to future healthcare cost trends due to the estimated tax.

Patient-centered outcomes research fees are included in the admin fees.

We have not identified any other specific provisions of healthcare reform that would be expected to have a significant impact on the measured obligation. As additional guidance on the legislation is issued, we will continue to monitor any potential impacts.

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June 30, 2014 Valuation – FY 2015 Claims Cost Rates

	Medical		
	Pre-Medicare	Medicare A&B	Medicare B Only
Fiscal 2011 Incurred Claims	\$232,724,861	\$55,613,464	\$849,158
Membership	31,362	29,997	138
Paid Claims Cost Rate	\$7,421	\$1,854	\$6,153
Trend to FY2015	1.372	1.372	1.372
FY2015 Paid Cost Rate	\$10,182	\$2,544	\$8,443
Improvided Provider Contracting Factor	0.970	0.993	0.993
FY 2015 Incurred Cost Rate	\$9,876	\$2,526	\$8,384
Fiscal 2012 Incurred Claims	\$233,755,671	\$71,481,207	\$1,587,051
Membership	29,500	33,631	208
Paid Claims Cost Rate	\$7,924	\$2,125	\$7,630
Trend to FY2015	1.269	1.269	1.269
FY2015 Paid Cost Rate	\$10,058	\$2,698	\$9,685
Improvided Provider Contracting Factor	0.970	0.970	0.970
FY 2015 Incurred Cost Rate	\$9,757	\$2,617	\$9,395
Fiscal 2013 Incurred Claims	\$240,038,962	\$73,485,175	\$1,901,568
Membership	27,037	37,913	217
Paid Claims Cost Rate	\$8,878	\$1,938	\$8,763
Trend to FY2015	1.172	1.172	1.172
FY2015 Paid Cost Rate	\$10,407	\$2,272	\$10,272
Improvided Provider Contracting Factor	0.970	0.970	0.970
FY 2015 Incurred Cost Rate	\$10,094	\$2,204	\$9,963
Fiscal 2014 Incurred Claims	\$264,308,816	\$81,160,409	\$2,901,430
Membership	24,486	42,311	223
Paid Claims Cost Rate	\$10,794	\$1,918	\$13,011
Trend to FY2015	1.076	1.076	1.076
FY2015 Paid Cost Rate	\$11,613	\$2,064	\$13,998
Improvided Provider Contracting Factor	0.985	0.985	0.985
FY 2015 Incurred Cost Rate	\$11,439	\$2,033	\$13,788
Weighted Average 7/1/2014-6/30/2015 Incurred Claims Cost Rates:			
At average age	\$10,408	\$2,267	\$10,839
At age 65	\$12,362	\$1,657	\$7,920

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June 30, 2014 Valuation – FY 2015 Claims Cost Rates (cont.)

	Prescription Drugs			Total
	Pre-Medicare	Medicare A&B	Medicare B Only	
Fiscal 2011 Incurred Claims	\$48,405,895	\$85,637,669	\$393,968	\$423,625,015
Membership	31,362	29,997	138	61,497
Paid Claims Cost Rate	\$1,543	\$2,855	\$2,855	\$6,889
Trend to FY2015	1.253	1.253	1.253	
FY2015 Paid Cost Rate	\$1,934	\$3,576	\$3,576	\$9,191
Improved Provider Contracting Factor	0.967	0.967	0.967	
FY2015 Incurred Cost Rate	\$1,870	\$3,458	\$3,458	\$8,936
Fiscal 2012 Incurred Claims	\$50,508,869	\$95,412,095	\$590,097	\$453,334,990
Membership	29,500	33,631	208	63,339
Paid Claims Cost Rate	\$1,712	\$2,837	\$2,837	\$7,157
Trend to FY2015	1.199	1.199	1.199	
FY2015 Paid Cost Rate	\$2,053	\$3,401	\$3,401	\$8,922
Improved Provider Contracting Factor	0.967	0.967	0.967	
FY2015 Incurred Cost Rate	\$1,985	\$3,289	\$3,289	\$8,646
Fiscal 2013 Incurred Claims	\$52,633,265	\$99,470,696	\$569,334	\$468,099,000
Membership	27,036	37,913	217	65,167
Paid Claims Cost Rate	\$1,947	\$2,624	\$2,624	\$7,183
Trend to FY2015	1.140	1.140	1.140	
FY2015 Paid Cost Rate	\$2,220	\$2,992	\$2,992	\$8,345
Improved Provider Contracting Factor	0.967	0.967	0.967	
FY2015 Incurred Cost Rate	\$2,147	\$2,893	\$2,893	\$8,087
Fiscal 2014 Incurred Claims	\$45,236,118	\$131,470,349	\$692,910	\$525,770,032
Membership	24,486	42,311	223	67,020
Paid Claims Cost Rate	\$1,847	\$3,107	\$3,107	\$7,845
Trend to FY2015	1.065	1.065	1.065	
FY2015 Paid Cost Rate	\$1,967	\$3,308	\$3,308	\$8,411
Improved Provider Contracting Factor	0.984	0.984	0.984	
FY2015 Incurred Cost Rate	\$1,935	\$3,254	\$3,254	\$8,280
Weighted Average 7/1/2014-6/30/2015 Incurred Claims Cost Rates:				
At average age	\$2,023	\$3,137	\$3,137	\$8,342
At age 65	\$2,624	\$2,624	\$2,624	\$8,132

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Following the development of total projected costs, a distribution of per capita claims cost was developed. This was accomplished by allocating total projected costs to the population census used in the valuation. The allocation was done separately for each of prescription drugs and medical costs for the Medicare eligible and pre-Medicare populations. The allocation weights were developed using participant counts by age and assumed morbidity and aging factors. Results were tested for reasonableness based on historical trend and external benchmarks for costs paid by Medicare.

Below are the results of this analysis:

**Distribution of Per Capita Claims Cost by Age
for the Period July 1, 2014 through June 30, 2015**

Age	Medical and Medicare Parts A & B	Medical and Medicare Part B Only	Prescription Drug	Medicare Retiree Drug Subsidy
45	\$6,846	\$6,846	\$1,384	\$ —
50	7,746	7,746	1,644	—
55	8,764	8,764	1,953	—
60	10,408	10,408	2,263	—
65	1,657	7,920	2,624	507
70	2,016	9,636	2,827	546
75	2,394	11,442	3,015	583
80	2,579	12,326	3,091	597

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Summary of Actuarial Assumptions and Changes in Assumptions

The demographic and economic assumptions used in the June 30, 2014 valuation are described below. Unless noted otherwise, these assumptions were adopted by the Board in December 2014. These assumptions were the result of an experience study performed as of June 30, 2013.

1. Investment Return / Discount Rate 8.00% per year (geometric), compounded annually, net of expenses.
2. Salary Scale Inflation – 3.12% per year. Productivity – 0.50% per year. See Table 1 for salary scale rates.
3. Payroll Growth 3.62% per year. (Inflation + Productivity).
4. Total Inflation Total inflation as measured by the Consumer Price Index for urban and clerical workers for Anchorage is assumed to increase 3.12% annually.
5. Mortality (Pre-termination)* Based upon the 2010-2013 actual mortality experience (see Table 2) 60% of male rates and 65% of female rates of post-termination mortality rates.

Deaths are assumed to be occupational 70% of the time for Peace Officer/Firefighter, 50% of the time for Others.
6. Mortality (Post-termination)* 96% of all rates of the RP-2000 table, 2000 Base Year projected to 2018 using Projection Scale BB.
7. Total Turnover Based upon the 2010-2013 actual withdrawal experience. (See Table 5).
8. Disability Incidence rates based upon the 2010-2013 actual experience, in accordance with Table 6.

Post-disability mortality in accordance with the RP-2000 Disabled Retiree Mortality Table, 2000 Base Year projected to 2018 with Projection Scale BB. Disabilities are assumed to be occupational 70% of the time for Peace Officer/Firefighter, 50% of the time for Others.
9. Retirement Retirement rates based upon the 2010-2013 actual experience in accordance with Table 7 and 8.

Deferred vested members are assumed to retire at their earliest unreduced retirement date for Others.

For Peace Officer/Firefighter, Tier 1 deferred vested members are assumed to retire at age 55 and Tier 2 and 3 deferred vested members are assumed to retire at age 60.

*The mortality assumptions include an allowance for expected future mortality improvement. The mortality table used was set in 2014 with an Actual Deaths to Expected Deaths ratio of 109%.

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10. Marriage and Age Difference Wives are assumed to be three years younger than husbands. For Others, 75% of male members and 70% of female members are assumed to be married. For Peace Officer/Firefighters, 85% of male members and 60% female members are assumed to be married.
11. Dependent Children Benefits to dependent children have been valued assuming members who are married and between the ages of 25 and 45 have two dependent children.
12. Contribution Refunds For Others, 10% of terminating members with vested benefits are assumed to have their contributions refunded.

For Peace Officers/Firefighters, 15% of terminating members with vested benefits are assumed to have their contributions refunded 100% of those with non-vested benefits are assumed to have their contributions refunded.
13. COLA Of those benefit recipients who are eligible for the COLA, 70% of Others and 65% Peace Officers/Firefighters are assumed to remain in Alaska and receive the COLA.
14. Post-Retirement Pension Adjustment 50% and 75% of assumed inflation, or 1.56% and 2.34% respectively, is valued for the annual automatic Post-Retirement Pension Adjustment (PRPA) as specified in the statute.
15. Expenses All pension related expenses are net of the investment return assumption.
16. Part-Time Status Part-time employees are assumed to earn 1.00 years of credited service per year for Peace Officer/Firefighter and 0.65 years for credited service per year for Other members.
17. Final Average Earnings Final Average Earnings is provided on the data for active members. This amount is used as a minimum in the calculation of the average earnings in the future.
18. Per Capita Claims Cost Sample claims cost rates adjusted to age 65 for FY15 medical and prescription are shown below:
- | | <u>Medical</u> | | <u>Prescription drugs</u> |
|----------------------|----------------|----|---------------------------|
| Pre-Medicare | \$ 12,362 | \$ | 2,624 |
| Medicare Parts A & B | 1,657 | | 2,624 |
| Medicare Part B Only | 7,920 | | 2,624 |
| Medicare Part D | N/A | | 507 |
19. Third Party Administrator Fees \$193.98 per person per year; assumed trend rate of 5% per year.

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20. Medicare Part B Only For actives and retirees not yet Medicare-eligible, participation is set based on whether the employee/retiree will have 40 quarters of employment after March 31, 1986, depending upon date of hire and/or re-hire.

21. Health Cost Trend The table below shows the rate used to project the cost from the shown fiscal year to the next fiscal year. For example, 10.0% is applied to the FY15 pre-Medicare medical claims costs to get the FY16 medical claims costs.

Fiscal year	Medical pre-65	Medical post-65	Prescription drugs
2015	10.0%	6.0%	6.0%
2016	9.4	5.9	5.7
2017	8.8	5.8	5.4
2018	8.2	5.7	5.1
2019	7.6	5.6	4.8
2020	7.0	5.6	4.6
2021	6.5	5.6	4.4
2025	5.6	5.6	4.2
2050	4.4	4.0	4.0
2100	4.4	4.0	4.0

For the June 30, 2014 valuations and later, the updated Society of Actuaries' Healthcare Cost Trend Model is used to project medical and prescription drug costs. This model effectively begins estimating trend amounts beginning in 2014 and projects out to 2090. The model has been adopted by the Society of Actuaries, and has been populated with assumptions that are specific to the State of Alaska.

	Age	Medical	Prescription drugs
22. Aging Factors	0-44	2.0%	4.5%
	45-54	2.5	3.5
	55-64	3.5	3.0
	65-73	4.0	1.5
	74-83	1.5	0.5
	84-93	0.5	—
	94 +	—	—

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23. Retired Member Contributions for Medical Benefits

Currently contributions are required for PERS members who are under age 60 and have less than 30 years of service (25 for Peace Officer/Firefighter). Eligible Tier 1 members are exempt from contribution requirements. Annual FY15 contributions based on monthly rates shown below for calendar 2014 and 2015 are assumed based on the coverage category for current retirees. The composite rate shown is used for current active and inactive members in tier 2 or 3 who are assumed to retire prior to age 60 with less than 30 years of service and who are not disabled:

Coverage category	Calendar 2015		Calendar 2014
	Annual contribution	Monthly contribution	Monthly contribution
Retiree only	\$ 9,876	823	823
Retiree and spouse	19,764	1,647	1,647
Retiree and child(ren)	13,956	1,163	1,163
Retiree and family	23,844	1,987	1,987
Composite	14,676	1,223	1,223

24. Trend Rate for Retired Member Medical Contribution

The table below shows the rate used to project the retired member medical contributions from the shown fiscal year to the next fiscal year. For example, 7.0% is applied to the FY15 retired member medical contributions to get the FY16 retired member medical contributions.

Fiscal year:	
2015	7.0%
2016	6.6
2017	6.2
2018	5.8
2019	5.4
2020	5.0
2025	4.1
2050	4.0
2100	4.0

Graded trend rates for retired member medical contributions were reinitialized for the June 30, 2014 valuation. Note that actual FY15 retired member medical contributions are reflected in the valuation.

25. Healthcare Participation

100% of system paid members and their spouses are assumed to elect healthcare benefits as soon as they are eligible. 10% of non-system paid members and their spouses are assumed to elect healthcare benefits as soon as they are eligible.

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Summary of Actuarial Assumptions and Changes in Assumptions

Table 1
Alaska PERS
Salary Scale

Peace Officer/Firefighter:

Years of Service	Percent Increase
0	9.66%
1	8.66
2	7.16
3	7.03
4	6.91
5	6.41
6	5.66
7+	4.92

Others:

Years of Service	Percent Increase
0	8.55%
1	7.36
2	6.35
3	6.11
4	5.71
5+	Age based

Age	Percent Increase	Age	Percent Increase
20	7.91%	45	5.44%
21	7.83	46	5.40
22	7.75	47	5.36
23	7.51	48	5.31
24	7.27	49	5.27
25	7.03	50	5.22
26	6.79	51	5.18
27	6.55	52	5.13
28	6.52	53	5.09
29	6.49	54	5.05
30	6.47	55	5.01
31	6.44	56	4.97
32	6.41	57	4.93
33	6.33	58	4.85
34	6.24	59	4.77
35	6.16	60	4.69
36	6.07	61	4.60
37	5.99	62	4.52
38	5.90	63	4.46
39	5.82	64	4.40
40	5.73	65+	4.34
41	5.64		
42	5.55		
43	5.52		
44	5.48		

Actuarial Section

State of Alaska
Public Employees' Retirement System
Defined Benefit Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 2
Alaska PERS
Mortality Table (Pre-termination)

Age	Male	Female	Age	Male	Female
20	0.000188	0.000113	55	0.001978	0.001549
21	0.000195	0.000114	56	0.002292	0.001730
22	0.000200	0.000115	57	0.002515	0.001912
23	0.000204	0.000116	58	0.002775	0.002118
24	0.000205	0.000119	59	0.003073	0.002355
25	0.000205	0.000122	60	0.003425	0.002632
26	0.000206	0.000127	61	0.003826	0.002973
27	0.000208	0.000132	62	0.004287	0.003343
28	0.000214	0.000139	63	0.004813	0.003840
29	0.000225	0.000147	64	0.005324	0.004328
30	0.000242	0.000156	65	0.005904	0.004874
31	0.000272	0.000181	66	0.006558	0.005500
32	0.000307	0.000207	67	0.007184	0.006107
33	0.000344	0.000233	68	0.007842	0.006751
34	0.000383	0.000257	69	0.008689	0.007462
35	0.000422	0.000281	70	0.009744	0.008407
36	0.000459	0.000304	71	0.010782	0.009329
37	0.000493	0.000327	72	0.011971	0.010376
38	0.000526	0.000354	73	0.013334	0.011534
39	0.000557	0.000383	74	0.014876	0.012783
40	0.000589	0.000417	75	0.016602	0.014113
41	0.000623	0.000458	76	0.018504	0.015549
42	0.000663	0.000504	77	0.020583	0.017125
43	0.000709	0.000554	78	0.022872	0.018877
44	0.000762	0.000608	79	0.025419	0.020841
45	0.000823	0.000664	80	0.028245	0.023037
46	0.000882	0.000723	81	0.031612	0.025498
47	0.000946	0.000784	82	0.035318	0.028266
48	0.001015	0.000848	83	0.039369	0.031386
49	0.001089	0.000916	84	0.043784	0.034906
50	0.001167	0.000991	85	0.048601	0.038887
51	0.001336	0.001095	86	0.053884	0.043371
52	0.001455	0.001193	87	0.060797	0.048373
53	0.001591	0.001305	88	0.068537	0.053879
54	0.001744	0.001407	89	0.077135	0.059830
			90	0.086571	0.067336

State of Alaska
Public Employees' Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

Table 3
Alaska PERS
Mortality Table (Post-termination)

Age	Male	Female	Age	Male	Female
50	0.001944	0.001524	85	0.081002	0.059827
51	0.002227	0.001684	86	0.089807	0.066725
52	0.002426	0.001835	87	0.101329	0.074420
53	0.002652	0.002007	88	0.114229	0.082891
54	0.002907	0.002165	89	0.128559	0.092046
55	0.003296	0.002383	90	0.144286	0.103593
56	0.003820	0.002662	91	0.160042	0.115847
57	0.004192	0.002942	92	0.176712	0.128589
58	0.004625	0.003259	93	0.194120	0.141591
59	0.005121	0.003623	94	0.212080	0.154643
60	0.005708	0.004050	95	0.230428	0.167558
61	0.006377	0.004574	96	0.249035	0.180154
62	0.007144	0.005143	97	0.267822	0.192248
63	0.008021	0.005908	98	0.281616	0.200025
64	0.008874	0.006658	99	0.300310	0.210437
65	0.009839	0.007498	100	0.313360	0.215967
66	0.010930	0.008462	101	0.332097	0.226721
67	0.011973	0.009396	102	0.344188	0.235671
68	0.013070	0.010386	103	0.361155	0.250844
69	0.014482	0.011479	104	0.369606	0.263111
70	0.016240	0.012933	105	0.381971	0.281391
71	0.017969	0.014352	106	0.384000	0.295499
72	0.019952	0.015964	107	0.384000	0.309816
73	0.022223	0.017744	108	0.384000	0.323943
74	0.024793	0.019666	109	0.384000	0.337482
75	0.027670	0.021712	110	0.384000	0.350032
76	0.030840	0.023921	111	0.384000	0.361196
77	0.034305	0.026346	112	0.384000	0.370574
78	0.038120	0.029042	113	0.384000	0.377767
79	0.042365	0.032063	114	0.384000	0.382376
80	0.047075	0.035441	115	0.384000	0.384000
81	0.052687	0.039227	116	0.384000	0.384000
82	0.058863	0.043487	117	0.384000	0.384000
83	0.065615	0.048286	118	0.384000	0.384000
84	0.072973	0.053702	119	1.000000	1.000000

State of Alaska
Public Employees' Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

Table 4
Alaska PERS
Total Turnover Assumptions

Peace Officer/Firefighter:

Years of Service	Female (rounded)	Male (rounded)
0	0.15	0.15
1	0.08	0.12
2	0.06	0.07
3	0.06	0.06
4	0.07	0.06

Members with 5 or more years of service

Age	Female	Male	Age	Female	Male
20	0.080000	0.040894	40	0.034930	0.017699
21	0.080000	0.040894	41	0.034779	0.017615
22	0.080000	0.040894	42	0.034627	0.017531
23	0.080000	0.038801	43	0.034352	0.018025
24	0.080000	0.036708	44	0.034077	0.018519
25	0.080000	0.034616	45	0.033802	0.019012
26	0.080000	0.032523	46	0.033527	0.019506
27	0.080000	0.030430	47	0.033251	0.020000
28	0.078000	0.028877	48	0.032862	0.023333
29	0.076000	0.027324	49	0.032474	0.026667
30	0.074000	0.025771	50	0.032085	0.030000
31	0.072000	0.024218	51	0.031581	0.040000
32	0.070000	0.022665	52	0.030941	0.040000
33	0.063077	0.021722	53	0.030201	0.040000
34	0.056154	0.020779	54+	0.060402	0.040000
35	0.049231	0.019836			
36	0.042308	0.018893			
37	0.035385	0.017950			
38	0.035234	0.017866			
39	0.035082	0.017782			

State of Alaska
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Summary of Actuarial Assumptions and Changes in Assumptions

Table 5
Alaska PERS
Total Turnover Assumptions

Others:

Years of Service	Hire Age < 35		Hire Age > 35	
	Male (rounded)	Female (rounded)	Male	Female
0	0.29	0.29	0.20	0.20
1	0.16	0.20	0.12	0.15
2	0.13	0.16	0.10	0.13
3	0.10	0.13	0.09	0.10
4	0.08	0.10	0.09	0.09

Members with 5 or more years of service

Age	Female	Male	Age	Female	Male
20	0.136735	0.095000	40	0.053792	0.044190
21	0.136735	0.095000	41	0.052523	0.042820
22	0.136735	0.095000	42	0.051254	0.041450
23	0.128522	0.090250	43	0.049398	0.040930
24	0.120309	0.085500	44	0.047541	0.040400
25	0.112096	0.080750	45	0.045685	0.039880
26	0.103883	0.076000	46	0.043828	0.039357
27	0.095670	0.071250	47	0.041972	0.038834
28	0.091756	0.069160	48	0.041891	0.038701
29	0.087842	0.067060	49	0.041809	0.038568
30	0.083927	0.064960	50	0.041566	0.038170
31	0.080013	0.062870	51	0.041365	0.037844
32	0.076099	0.060770	52	0.041121	0.037460
33	0.072399	0.058280	53	0.040844	0.037023
34	0.068699	0.055780	54+	0.057924	0.043859
35	0.064999	0.053290			
36	0.061299	0.050790			
37	0.057599	0.048300			
38	0.056330	0.046930			
39	0.055061	0.045560			

State of Alaska
Public Employees' Retirement System
Defined Benefit Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 6
Alaska PERS
Disability Table

Age	Peace Officer/ Firefighter Rate	Other Member Rate	
		Male	Female
20	0.000224	0.000218	0.000188
21	0.000224	0.000218	0.000188
22	0.000224	0.000218	0.000188
23	0.000305	0.000240	0.000200
24	0.000387	0.000261	0.000212
25	0.000468	0.000283	0.000224
26	0.000550	0.000304	0.000236
27	0.000631	0.000326	0.000248
28	0.000658	0.000334	0.000255
29	0.000685	0.000342	0.000262
30	0.000712	0.000349	0.000269
31	0.000739	0.000357	0.000277
32	0.000765	0.000365	0.000284
33	0.000793	0.000377	0.000293
34	0.000821	0.000389	0.000303
35	0.000849	0.000401	0.000312
36	0.000877	0.000413	0.000322
37	0.000905	0.000425	0.000331
38	0.000946	0.000446	0.000348
39	0.000986	0.000467	0.000364
40	0.001027	0.000489	0.000381
41	0.001068	0.000510	0.000397
42	0.001108	0.000531	0.000413
43	0.001221	0.000586	0.000454
44	0.001333	0.000641	0.000495
45	0.001446	0.000695	0.000536
46	0.001559	0.000750	0.000577
47	0.001671	0.000805	0.000618
48	0.001828	0.000886	0.000680
49	0.001985	0.000967	0.000742
50	0.002142	0.001048	0.000804
51	0.002299	0.001129	0.000867
52	0.002456	0.001210	0.000929
53	0.002868	0.001421	0.001084
54	0.003280	0.001633	0.001239

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Summary of Actuarial Assumptions and Changes in Assumptions

Table 7
Alaska PERS Peace Officer/Firefighter
Retirement Table

Age at Retirement	Retirement Rate		
	Reduced	Unreduced	
	Unisex Rates	Female Rates	Male Rates
<47	N/A	0.060000	0.080000
47	N/A	0.150000	0.080000
48	N/A	0.150000	0.130000
49	N/A	0.150000	0.130000
50	0.087041	0.150000	0.150000
51	0.085580	0.150000	0.150000
52	0.072383	0.150000	0.185000
53	0.076688	0.150000	0.185000
54	0.075561	0.250000	0.185000
55	0.077429	0.200000	0.250000
56	0.077106	0.150000	0.250000
57	0.076730	0.150000	0.250000
58	0.076820	0.150000	0.250000
59	0.200000	0.150000	0.250000
60	N/A	0.250000	0.300000
61	N/A	0.200000	0.250000
62	N/A	0.300000	0.250000
63	N/A	0.500000	0.250000
64	N/A	0.500000	0.200000
65	N/A	0.500000	0.200000
66	N/A	0.500000	0.250000
67	N/A	0.500000	0.500000
68	N/A	0.500000	0.500000
69	N/A	0.500000	0.500000
70	N/A	1.000000	1.000000
71	N/A	1.000000	1.000000
72	N/A	1.000000	1.000000
73	N/A	1.000000	1.000000
74	N/A	1.000000	1.000000
75	N/A	1.000000	1.000000

State of Alaska
Public Employees' Retirement System
Defined Benefit Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 8
Alaska PERS Other
Retirement Table

Age at Retirement	Retirement Rate			
	Reduced		Unreduced	
	Female Rate	Male Rate	Female Rates	Male Rates
<50	N/A	N/A	0.100000	0.100000
50	0.060000	0.040000	0.350000	0.300000
51	0.060000	0.040000	0.350000	0.330000
52	0.080000	0.060000	0.350000	0.330000
53	0.080000	0.060000	0.350000	0.330000
54	0.140000	0.140000	0.350000	0.350000
55	0.060000	0.050000	0.300000	0.300000
56	0.060000	0.050000	0.200000	0.200000
57	0.060000	0.050000	0.180000	0.200000
58	0.060000	0.050000	0.180000	0.200000
59	0.160000	0.140000	0.180000	0.200000
60	N/A	N/A	0.210000	0.200000
61	N/A	N/A	0.200000	0.200000
62	N/A	N/A	0.200000	0.200000
63	N/A	N/A	0.200000	0.200000
64	N/A	N/A	0.200000	0.200000
65	N/A	N/A	0.260000	0.230000
66	N/A	N/A	0.260000	0.250000
67	N/A	N/A	0.220000	0.200000
68	N/A	N/A	0.220000	0.230000
69	N/A	N/A	0.220000	0.250000
70	N/A	N/A	0.220000	0.250000
71	N/A	N/A	0.220000	0.250000
72	N/A	N/A	0.250000	0.250000
73	N/A	N/A	0.250000	0.250000
74	N/A	N/A	0.350000	0.250000
75-89	N/A	N/A	0.500000	0.500000
90+	N/A	N/A	1.000000	1.000000

State of Alaska
Public Employees' Retirement System
Defined Benefit Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 9
Alaska PERS
Disabled Mortality Rates

Age	Female	Male	Age	Female	Male
≤45	0.0071	0.0214	80	0.0582	0.0833
46	0.0078	0.0226	81	0.0621	0.0880
47	0.0085	0.0238	82	0.0662	0.0928
48	0.0093	0.0250	83	0.0707	0.0978
49	0.0101	0.0262	84	0.0755	0.1028
50	0.0109	0.0275	85	0.0806	0.1079
51	0.0118	0.0287	86	0.0862	0.1130
52	0.0127	0.0299	87	0.0921	0.1204
53	0.0137	0.0311	88	0.0985	0.1282
54	0.0144	0.0324	89	0.1054	0.1362
55	0.0151	0.0336	90	0.1148	0.1503
56	0.0158	0.0348	91	0.1249	0.1667
57	0.0164	0.0354	92	0.1359	0.1841
58	0.0171	0.0359	93	0.1475	0.2022
59	0.0176	0.0365	94	0.1611	0.2209
60	0.0182	0.0370	95	0.1745	0.2400
61	0.0188	0.0376	96	0.1877	0.2594
62	0.0194	0.0382	97	0.2003	0.2790
63	0.0204	0.0389	98	0.2084	0.2934
64	0.0214	0.0396	99	0.2192	0.3128
65	0.0226	0.0404	100	0.2250	0.3264
66	0.0238	0.0413	101	0.2362	0.3459
67	0.0252	0.0422	102	0.2455	0.3585
68	0.0267	0.0434	103	0.2613	0.3762
69	0.0284	0.0454	104	0.2741	0.3850
70	0.0303	0.0477	105	0.2931	0.3979
71	0.0323	0.0502	106	0.3078	0.4000
72	0.0345	0.0529	107	0.3227	0.4000
73	0.0368	0.0558	108	0.3374	0.4000
74	0.0393	0.0591	109	0.3515	0.4000
75	0.0420	0.0625	110	0.3646	0.4000
76	0.0449	0.0662	111	0.3762	0.4000
77	0.0479	0.0702	112	0.3860	0.4000
78	0.0511	0.0744	113	0.3935	0.4000
79	0.0546	0.0788	114	0.3983	0.4000
			115+	0.4000	0.4000

Actuarial Section

State of Alaska Public Employees' Retirement System Defined Benefit Retirement Plan Summary of Actuarial Assumptions and Changes in Assumptions

Changes in Actuarial Assumptions Since the Prior Valuation

	June 30, 2013	June 30, 2014
Salary Scale	Based on actual experience from 2005 to 2009.	Based on actual experience from 2010 - 2013 increased most rates.
Pre-termination Mortality	<p>Peace Officer/Firefighter: 1994 GAM Table, sex distinct, 1994 Base Year without margin projected to 2013 using Projection Scale AA, 80% of the male table for males and 60% of the female table for females.</p> <p>Others: 1994 GAM Table, sex distinct, 1994 Base Year without margin projected to 2013 using Projection Scale AA, 75% of the male table for males and 55% of the female table for females.</p>	Based upon 2010-2013 actual mortality experience. 60% of male rates and 65% of female rates of the post-termination mortality rates.
Post-termination Mortality	1994 GAM Table, sex-distinct, 1994 Base Year without margin projected to 2013 using Projection Scale AA for males and with a 1-year set-forward for females.	96% of all rates of the RP-2000 table, 2000 Base Year projected to 2018 with Projection Scale BB.
Disability Mortality	RP-2000 Disabled Retiree Mortality Table.	RP-2000 Disabled Retiree Table, 2000 Base Year projected to 2018 with Projection Scale BB.
Turnover	Rates adjusted based on actual experience from 2005 to 2009.	Based upon the 2010-2013 actual withdrawal experience.
Disability	<p>Peace Officer/Firefighter: No change except to stop rates at earliest retirement age.</p> <p>Others: Male/Female rates decreased based on actual experience from 2005 to 2009 and stop rates at earliest retirement age.</p>	<p>Incidence rates based on 2010-2013 actual experience.</p> <p>Peace Officer/Firefighter: Decreased rates by 5%</p> <p>Others: Decreased rates by 30%</p>
Retirement	Rates were adjusted based on actual experience from 2005 to 2009.	Retirement rates based upon the 2010-2013 actual experience.
Deferred Vested Commencement Date	<p>Peace Officer/Firefighter: Tier 1 – age 53 Tiers 2 and 3 – age 57</p> <p>Others: Earliest unreduced age</p>	<p>Peace Officer/Firefighter: Tier 1 – age 55 Tier 2 and Tier 3 – age 60</p> <p>Others: Earliest reduced age</p>
COLA	Of those benefit recipients who are eligible for the COLA, 70% are assumed to remain in Alaska and receive the COLA.	Of those benefit recipients who are eligible for the COLA, 70% of Others and 65% of Peace Officers/Firefighters are assumed to remain in Alaska and receive the COLA.
Occupational Death and Disability	<p>Others: 55%</p> <p>Peace Officer/Firefighter: 75%</p>	<p>Peace Officer/Firefighter: 70%</p> <p>Others: 50%</p>

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Summary of Actuarial Assumptions and Changes in Assumptions

June 30, 2013

June 30, 2014

Health Cost Trend

Fiscal year	Medical pre-65	Medical post-65	Prescription drugs	Fiscal year	Medical pre-65	Medical post-65	Prescription drugs
2014	8.7%	6.4%	6.3%	2015	10.0%	6.0%	6.0%
2015	8.5	6.3	6.2	2016	9.4	5.9	5.7
2016	8.0	6.3	6.2	2017	8.8	5.8	5.4
2017	7.5	6.2	6.1	2018	8.2	5.7	5.1
2018	7.0	6.1	6.0	2019	7.6	5.6	4.8
2019	6.6	6.1	5.8	2020	7.0	5.6	4.6
2020	6.4	6.1	5.8	2021	6.5	5.6	4.4
2025	6.0	6.0	5.7	2025	5.6	5.6	4.2
2050	5.0	5.0	5.0	2050	4.4	4.0	4.0
2100	4.5	4.5	4.5	2100	4.4	4.0	4.0

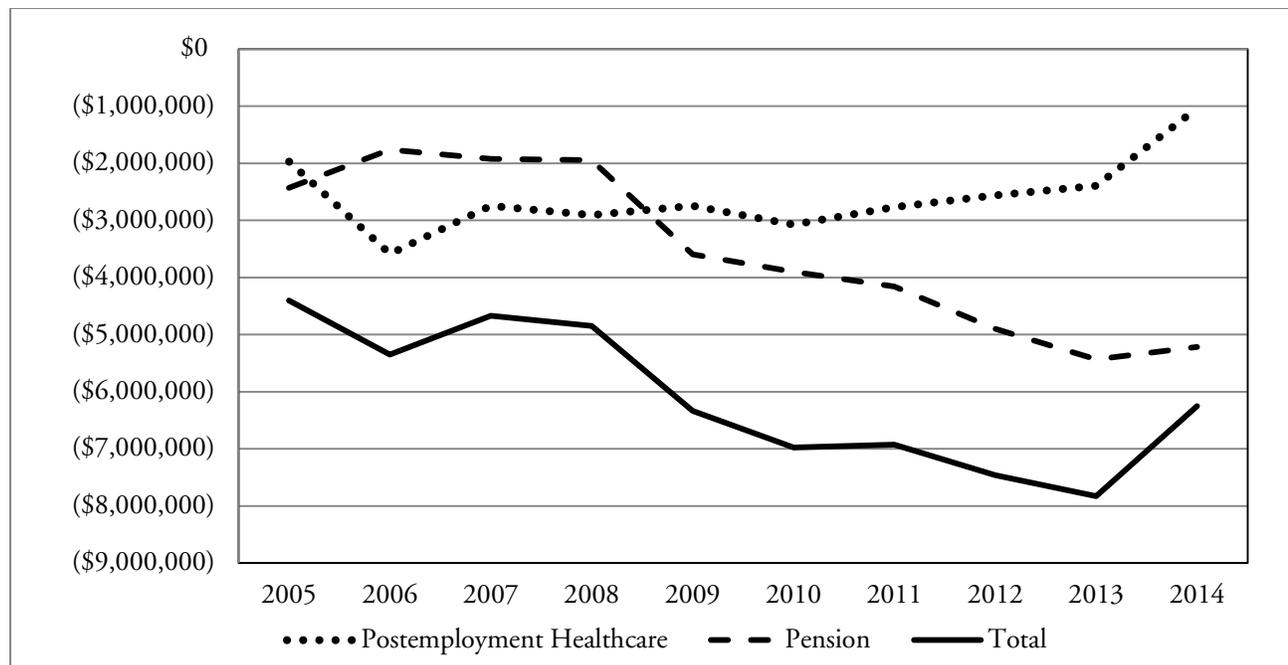
Trend Rate for Retired Member Medical Contribution

FY 13 Trend Assumption		FY 14 Trend Assumption	
Fiscal year:		Fiscal year:	
2014	8.2%	2015	7.0%
2015	8.0	2016	6.6
2016	7.6	2017	6.2
2017	7.2	2018	5.8
2018	6.7	2019	5.4
2019	6.4	2020	5.0
2025	5.9	2025	4.1
2050	5.0	2050	4.0
2100	4.5	2100	4.0

Actuarial Section

Public Employees' Retirement System Defined Benefit Retirement Plan Funding Excess/(Unfunded Liability) (In thousands)				
Actuarial Valuation Year Ended June 30	Postemployment Healthcare	Pension	Total Funding Excess/ (Unfunded Liability)	Funded Ratio
2005	\$ (1,973,144)	\$ (2,428,778)	\$ (4,401,922)	65.7%
2006	(3,584,527)	(1,762,978)	(5,347,505)	62.8
2007	(2,746,653)	(1,923,320)	(4,669,973)	68.0
2008	(2,904,525)	(1,943,510)	(4,848,035)	69.5
2009	(2,742,835)	(3,593,558)	(6,336,393)	61.8
2010	(3,073,188)	(3,901,840)	(6,975,028)	61.5
2011	(2,769,878)	(4,156,898)	(6,926,776)	63.0
2012	(2,561,808)	(4,898,523)	(7,460,331)	61.3
2013	(2,395,001)	(5,435,132)	(7,830,133)	60.8
2014	(1,036,453)	(5,216,321)	(6,252,774)	70.1

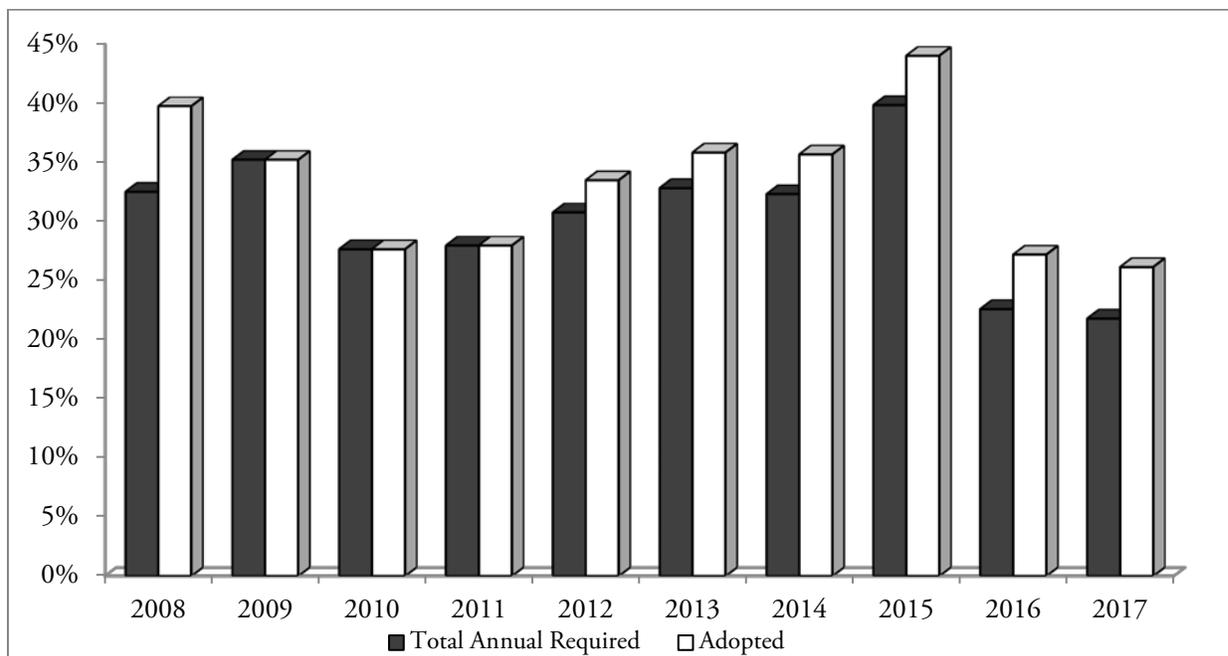
10-YEAR TREND OF UNFUNDED LIABILITY
(In thousands)



Public Employees' Retirement System Defined Benefit Retirement Plan Employer Contribution Rates					
Year Ended June 30	Actuarially Determined				Adopted
	Actuarial Valuation Year Ended June 30	Normal Cost ¹	Past Service	Total Annual Required	
2008	2005	14.48%	18.03%	32.51%	39.76% ²
2009	2006	13.72	21.50	35.22	35.22
2010	2007	9.46	18.19	27.65	27.65
2011	2008	9.33	18.63	27.96	27.96
2012	2009	8.28	22.48	30.76	33.49
2013	2010	8.67	24.16	32.83	35.84
2014	2011	8.12	24.19	32.31	35.68
2015	2012	6.82	33.03	39.85	44.03
2016	2013	6.05	16.53	22.58	27.19
2017	2014	5.76	16.02	21.78	26.14

¹ Also referred to as the consolidated rate.
² The ARMB recognized the fact that the Plan becomes a closed Plan on July 1, 2006, and set a rate reflecting no payroll growth.
 Effective June 30, 2008 the Defined Benefits Plan became a defined benefit, cost sharing, multiple employer plan. Prior to 2008 rates were calculated by employer and only the average employer contribution rate is reflected on this schedule for 2007 and earlier.
 Valuations are used to set contribution rates in future years.

10-YEAR COMPARISON OF AVERAGE EMPLOYER CONTRIBUTION RATES



Actuarial Section

Public Employees' Retirement System Defined Benefit Retirement Plan Schedule of Active Member Valuation Data					
Valuation Date	Number	Annual Earnings (In thousands) ¹	Annual Average Earnings	Percent Increase in Average Earnings	Number of Participating Employers
All Others					
June 30, 2014	17,339	\$ 1,188,918	\$ 68,569	3.4%	158
June 30, 2013	18,890	1,252,786	66,320	4.5	159
June 30, 2012	20,566	1,305,337	63,471	4.6	160
June 30, 2011	22,118	1,342,122	60,680	4.7	160
June 30, 2010	24,054	1,393,803	57,945	4.5	160
June 30, 2009	25,089	1,390,971	55,441	5.1	159
June 30, 2008	26,301	1,387,117	52,740	6.9	160
June 30, 2007	28,675	1,414,145	49,316	9.5	160
June 30, 2006	31,286	1,408,863	45,032	4.2	160
June 30, 2005	30,997	1,338,962	43,197	2.3	160
Peace Officer / Firefighter					
June 30, 2014	1,958	\$ 193,737	\$ 98,946	3.4%	158
June 30, 2013	2,065	197,534	95,658	4.8	159
June 30, 2012	2,164	197,544	91,286	4.1	160
June 30, 2011	2,275	199,537	87,709	8.6	160
June 30, 2010	2,388	192,895	80,777	2.8	160
June 30, 2009	2,476	194,519	78,562	5.0	159
June 30, 2008	2,549	190,729	74,825	4.9	160
June 30, 2007	2,687	191,674	71,334	9.3	160
June 30, 2006	2,785	181,830	65,289	2.5	160
June 30, 2005	2,733	174,155	63,723	3.0	160
¹ Prior to June 30, 2006, unannualized earnings were used. Starting June 30, 2006, annualized earnings are used.					

Actuarial Section

Public Employees' Retirement System Defined Benefit Retirement Plan Schedule of Benefit Recipients Added to and Removed from Rolls								
Year Ended	Added to Rolls		Removed from Rolls		Rolls - End of Year		Percent Increase in Annual Pension Benefits	Average Annual Pension Benefits
	No. ¹	Annual Pension Benefits ¹	No. ¹	Annual Pension Benefits ¹	No.	Annual Pension Benefits		
All Others								
June 30, 2014	1,778	\$44,823,611	603	\$ 3,011,383	28,073	\$ 568,952,296	7.9%	\$ 20,267
June 30, 2013	1,808	43,247,667	554	4,861,626	26,898	527,140,068	7.9	19,598
June 30, 2012	1,679	37,855,250	636	5,344,239	25,644	488,754,027	7.1	19,059
June 30, 2011	1,595	37,100,217	554	6,897,899	24,601	456,243,016	7.1	18,546
June 30, 2010	1,667	35,089,579	517	8,712,630	23,560	426,040,698	6.6	18,083
June 30, 2009	1,340	25,402,811	476	28,773	22,410	399,663,749	6.8	17,834
June 30, 2008	1,454	28,498,471	466	5,349,935	21,546	374,289,711	6.6	17,372
June 30, 2007	1,479	28,985,748	454	(14,280,390)	20,558	351,141,175	14.1	17,081
June 30, 2006	1,494	26,193,750	384	2,265,651	19,533	307,875,037	8.4	15,762
June 30, 2005	1,287	22,966,842	296	17,019,851	18,423	283,946,938	2.1	15,413
Peace Officer / Firefighter								
June 30, 2014	109	\$ 4,270,620	50	\$ (145,769)	3,026	\$ 103,262,870	4.5%	\$ 34,125
June 30, 2013	113	4,162,920	42	240,775	2,967	98,846,479	4.1	33,315
June 30, 2012	179	5,246,271	41	(177,568)	2,896	94,924,334	6.1	32,778
June 30, 2011	114	3,772,720	33	116,090	2,758	89,500,495	4.3	32,451
June 30, 2010	118	3,593,724	46	1,413,071	2,677	85,843,865	2.6	32,067
June 30, 2009	108	2,759,299	39	(518,134)	2,605	83,663,212	4.1	32,116
June 30, 2008	125	3,556,519	28	191,073	2,536	80,385,779	4.4	31,698
June 30, 2007	138	3,930,564	67	(2,546,491)	2,439	77,020,333	9.2	31,579
June 30, 2006	118	3,289,370	30	209,287	2,368	70,543,278	8.9	29,790
June 30, 2005	145	3,904,737	5	3,332,357	2,280	67,463,195	7.2	29,589

¹ Numbers are estimated, and include other internal transfers.

Actuarial Section

Public Employees' Retirement System Defined Benefit Retirement Plan Pension Solvency Test (In thousands)							
Valuation Date	Pension Aggregate Accrued Liability For:			Pension Valuation Assets	Portion of Accrued Liabilities Covered by Assets:		
	(1) Active Member Contributions	(2) Inactive Members	(3) Active Members (Employer-Financed Portion)		(1)	(2)	(3)
June 30, 2014	\$ 1,486,335	\$ 8,264,683	\$ 3,196,741	\$ 7,731,438	100.0%	75.6%	—%
June 30, 2013	1,479,538	7,514,255	2,952,088	6,510,749	100.0	67.0	—
June 30, 2012	1,459,943	7,057,967	2,911,034	6,530,421	100.0	71.8	—
June 30, 2011	1,421,967	6,657,517	2,839,563	6,762,149	100.0	80.2	—
June 30, 2010 ¹	1,388,029	6,268,461	2,715,182	6,469,832	100.0	81.1	—
June 30, 2009	1,315,924	5,914,959	2,471,203	6,108,528	100.0	81.0	—
June 30, 2008	1,242,288	5,606,402	2,305,592	7,210,772	100.0	100.0	15.7
June 30, 2007	1,203,007	5,282,132	2,177,185	6,739,004	100.0	100.0	11.7
June 30, 2006 ^{1 2}	1,157,755	4,933,609	2,002,679	6,331,065	100.0	100.0	12.0
June 30, 2005	1,104,821	4,627,467	1,354,903	6,016,713 ³	100.0	100.0	21.0

¹ Change in Assumptions
² Change in Methods
³ The pension and postemployment healthcare valuation assets were allocated using a ration of fair value of assets as of June 30, 2005

Public Employees' Retirement System Defined Benefit Retirement Plan Postemployment Healthcare Solvency Test (In thousands)							
Valuation Date	Postemployment Healthcare Aggregate Accrued Liability For:			Post-Employment Healthcare Valuation Assets	Portion of Accrued Liabilities Covered by Assets:		
	(1) Active Member Contributions	(2) Inactive Members	(3) Active Members (Employer-Financed Portion)		(1)	(2)	(3)
June 30, 2014 ¹	\$ —	\$ 5,455,114	\$ 2,494,499	\$ 6,913,160	100.0%	100.0%	58.5%
June 30, 2013 ¹	—	5,298,380	2,748,498	5,651,877	100.0	100.0	12.9
June 30, 2012 ¹	—	5,026,080	2,837,337	5,301,609	100.0	100.0	9.7
June 30, 2011	—	4,812,845	3,008,658	5,051,625	100.0	100.0	7.9
June 30, 2010 ¹	—	4,581,806	3,179,014	4,687,632	100.0	100.0	3.3
June 30, 2009	—	4,232,394	2,644,891	4,134,450	100.0	97.7	—
June 30, 2008 ¹	—	4,166,270	2,567,589	3,829,334	100.0	91.9	—
June 30, 2007	—	3,684,906	2,223,703	3,161,956	100.0	85.8	—
June 30, 2006 ^{1 2}	—	3,990,202	2,304,168	2,709,843	100.0	67.9	—
June 30, 2005	—	4,039,591	1,718,059	2,426,206 ³	100.0	60.1	—

Healthcare liabilities are calculated using the funding assumptions (i.e., funding investment return and net of Medicare Part D subsidy).

¹ Change in Assumptions
² Change in Methods
³ The postemployment healthcare valuation assets were allocated using a ration of fair value of assets as of June 30, 2005

Actuarial Section

Public Employees' Retirement System Defined Benefit Retirement Plan Analysis of Financial Experience					
Change in Employer/State Contribution Rate Due to (Gains) and Losses in Accrued Liabilities During the Last Five Fiscal Years Resulting From Differences Between Assumed Experience and Actual Experience					
Type of (Gain) or Loss	Change in Employer/State Contribution Rate During Fiscal Year				
	2014	2013	2012	2011	2010
Health Experience	(0.85)%	(1.51)%	(2.97)%	(1.82)%	0.24%
Salary Experience	(0.19)	0.23	0.23	0.31	0.06
Investment Experience	(4.63)	1.76	3.11	0.26	0.28
Demographic Experience	(0.04)	(0.84)	(1.00)	0.29	(0.30)
Contribution Shortfall	0.67	0.79	0.21	0.44	(0.67)
(Gain) or Loss During Year From Experience	(5.04)	0.43	(0.42)	(0.52)	(0.39)
Non-recurring changes					
Assumption and Method Changes	(13.46)	—	7.96	—	2.46
System Benefit Changes	—	—	—	—	—
Composite (Gain) or Loss During Year	(18.50)	0.43	7.54	(0.52)	2.07
Beginning Employer/State Contribution Rate	40.28	39.85	32.31	32.83	30.76
Ending Employer/State Contribution Rate	<u>21.78%</u>	<u>40.28%</u>	<u>39.85%</u>	<u>32.31%</u>	<u>32.83%</u>
Fiscal Year Employer/State Contribution Rate	21.78%*	22.58%	27.72%	32.31%	32.83%
Fiscal Year Above Rate is Applied	FY17	FY16	FY15	FY14	FY13

*Expected. Actual Rate to be determined.

NOTE: In the second session of the 28th Alaska legislature, the legislature changed the actuarial methodology from level dollar amortization to level percent of pay. The June 30, 2013 PERS actuarial valuation report was not updated for this change, but specific revisions for the amortization change were presented to reflect the change in amortization. The change in the amortization resulted in an adjusted FY 16 employer/state contribution rate of 22.58%.

Public Employees' Retirement System Defined Benefit Retirement Plan Analysis of Financial Experience						
Change in Employer/State Contribution Rate Due to (Gains) and Losses in Accrued Liabilities During the Last Three Fiscal Years Resulting From Differences Between Assumed Experience and Actual Experience						
Type of (Gain) or Loss	Change in Employer/State Contribution Rate During Fiscal Year					
	Pension			Healthcare		
	2014	2013	2012	2014	2013	2012
Health Experience	N/A	N/A	N/A	(0.85)%	(1.51)%	(2.97)%
Salary Experience	(0.19)%	0.23%	0.23%	N/A	N/A	N/A
Investment Experience	(2.40)	1.43	2.40	(2.23)	0.33	0.71
Demographic Experience	(0.04)	(0.84)	(1.00)	N/A	N/A	N/A
Contribution Shortfall	0.63	0.78	0.25	0.04	0.01	(0.04)
(Gain) or Loss During Year From Experience	(2.00)	1.60	1.88	(3.04)	(1.17)	(2.30)
Non-recurring changes						
Assumption and Method Changes	(6.86)	—	4.89	(6.60)	—	3.07
System Benefit Changes	—	—	—	—	—	0.00
Composite (Gain) or Loss During Year	(8.86)	1.60	6.77	(9.64)	(1.17)	0.77
Beginning Employer/State Contribution Rate	24.84	23.24	16.47	15.44	16.61	15.84
Ending Employer/State Contribution Rate	<u>15.98%</u>	<u>24.84%</u>	<u>23.24%</u>	<u>5.80%</u>	<u>15.44%</u>	<u>16.61%</u>
Fiscal Year Employer/State Contribution Rate	15.98%*	14.43%	16.29%	5.80%*	8.15%	11.43%
Fiscal Year Above Rate is Applied	FY17	FY16	FY15	FY17	FY16	FY15

*Expected. Actual Rate to be determined.

State of Alaska
Public Employees' Retirement System
Defined Benefit Retirement Plan
Summary of Plan Provisions and Changes in Plan Provisions

1. Effective Date

January 1, 1961, with amendments through June 30, 2008. Chapter 82, 1986 Session Laws of Alaska, created a two-tier retirement system. Members who were first hired under the PERS before July 1, 1986 (Tier 1) are eligible for different benefits than members hired after June 30, 1986 (Tier 2). Chapter 4, 1996 Session Laws of Alaska created a third tier for members who were first hired after June 30, 1996 (Tier 3). Chapter 9, 2005 Session Laws of Alaska, closed the plan to new members hired after June 30, 2006.

2. Administration of Plan

The Commissioner of Administration or the Commissioner's designee is the administrator of the system. The Attorney General of the state is the legal counsel for the system and shall advise the administrator and represent the system in legal proceedings.

Prior to June 30, 2005, the Public Employees' Retirement Board prescribed policies and adopted regulations and performed other activities necessary to carry out the provisions of the system. The Alaska State Pension Investment Board, Department of Revenue, Treasury Division was responsible for investing PERS funds.

On July 27, 2005, Senate Bill 141, enacted as Chapter 9, 2005 Session laws of Alaska, replaced the Public Employees' Retirement Board and the Alaska State Pension Investment Board with the Alaska Retirement Management Board.

3. Employers Included

Currently there are 159 employers participating in the PERS, including the State of Alaska and 158 political subdivisions and public organizations.

4. Membership

PERS membership is mandatory for all permanent full-time and part-time employees of the State of Alaska and participating political subdivisions and public organizations, unless they are specifically excluded by Alaska Statute or employer participation agreements. Employees participating in the University of Alaska's Optional Retirement Plan or other retirement plans funded by the State are not covered by the PERS. Elected officials may waive PERS membership.

Certain members of the Alaska Teachers' Retirement System (TRS) are eligible for PERS retirement benefits for their concurrent elected public official service with municipalities. In addition, employees who work half-time in the PERS and TRS simultaneously are eligible for half-time PERS and TRS credit.

Senate Bill 141, signed into law on July 27, 2005, closes the Plan effective July 1, 2006, to new members first hired on or after July 1, 2006.

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Summary of Plan Provisions and Changes in Plan Provisions

5. Credited Service

Permanent employees who work at least 30 hours a week earn full-time credit; part-time employees working between 15 and 30 hours a week earn partial credit based upon the number of hours worked. Members receiving PERS occupational disability benefits continue to earn PERS credit while disabled. Survivors who are receiving occupational death benefits continue to earn PERS service credit while occupational survivor benefits are being paid.

Members may claim other types of service, including:

- part-time State of Alaska service rendered after December 31, 1960, and before January 1, 1976;
- service with the State, former Territory of Alaska, or U.S. Government in Alaska before January 1, 1961;
- past Peace Officer, correctional officer, fire fighter, and special officer service after January 1, 1961;
- military service (not more than five years may be claimed);
- temporary service after December 31, 1960;
- elected official service before January 1, 1981;
- Alaska Bureau of Indian Affairs service;
- past service rendered by employees who worked half-time in the PERS and Teachers' Retirement System (TRS) simultaneously;
- leave without pay service after June 13, 1987, while receiving Workers' Compensation;
- Village Public Safety Officer service; and
- service as a temporary employee of the legislature before July 1, 1979, but this service must have been claimed no later than July 1, 2003, or by the date of retirement, if sooner (not more than 10 years may be claimed).

Except for service before January 1, 1961, with the State, former Territory of Alaska, or U.S. Government in Alaska, contributions are required for all past service.

Past employment with participating political subdivisions that occurred before the employers joined the PERS is creditable if the employers agree to pay the required contributions.

At the election of certain PERS members, certain service may be credited in the same fashion as members in the State of Alaska Teachers' Retirement System (TRS).

Members employed as dispatchers or within a state correctional facility may, at retirement, elect to convert their dispatcher or correctional facility service from "all other" service to Peace Officer/Firefighter service and retire under the 20 year retirement option. Members pay the full actuarial cost of conversion.

State of Alaska
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Summary of Plan Provisions and Changes in Plan Provisions

6. Employer Contributions

PERS employers contribute the amounts required, in addition to employees' contributions, to fund the benefits of the system.

The normal cost rate is a uniform rate for all participating employers (less the value of members' contributions).

The past service rate is a uniform rate for all participating employers to amortize the unfunded past service liability with payments that are a level percentage of pay amount over fixed 25-year periods.

Employer rates cannot be less than the normal cost rate.

Pursuant to AS 39.35.255 effective July 1, 2008, each PERS employer will pay a simple uniform contribution rate of 22% of member payroll.

7. Additional State Contributions

Pursuant to AS 39.35.280 effective July 1, 2008, the State shall contribute an amount (in addition to the State contribution as an employer) that when combined with the employer contribution (22% of total DB and DCR payroll, less employer contributions to DCR) will be sufficient to pay the total contribution rate adopted by The Alaska Retirement Management Board.

8. Member Contributions

Mandatory Contributions: Peace Officer/Firefighter members are required to contribute 7.5% of their compensation; all Others contribute 6.75%. Those all Others who have elected to have their service calculated under the Teachers' Retirement System rules contribute 9.76% of their compensation. Members' contributions are deducted from gross wages before federal income taxes are withheld.

Contributions for Claimed Service: Member contributions are also required for most of the claimed service described in (5) above.

Voluntary Contributions: Members may voluntarily contribute up to 5% of their salary on an after-tax basis. Voluntary contributions are recorded in a separate account and are payable to the:

- a. member in lump sum payment upon termination of employment;
- b. member's beneficiary if the member dies; or
- c. member in a lump sum, life annuity, or payments over a designated period of time when the member retires.

Interest: Members' contributions earn 4.5% interest, compounded semiannually on June 30 and December 31.

Refund of Contributions: Terminated members may receive refunds of their member contribution accounts which includes their mandatory and voluntary contributions, indebtedness payments, and interest earned. Terminated members' accounts may be attached to satisfy claims under Alaska Statute 09.38.065, federal income tax levies, and valid Qualified Domestic Relations Orders.

Reinstatement of Contributions: Refunded accounts and the corresponding PERS service may be reinstated upon reemployment in the PERS prior to July 1, 2010. Interest accrues on refunds until paid in full or members retire.

State of Alaska
Public Employees' Retirement System
Defined Benefit Retirement Plan
Summary of Plan Provisions and Changes in Plan Provisions

9. Retirement Benefits

Eligibility:

- a) Members, including deferred vested members, are eligible for normal retirement at age 55 or early retirement at age 50 if they were hired before July 1, 1986 (Tier 1), and 60 or early retirement at age 55 if they were hired after July 1, 1986 (Tiers 2 & 3). Additionally, they must have at least:
 - i) five years of paid-up PERS service;
 - ii) 60 days of paid-up PERS service as employees of the legislature during each of the five legislative sessions and they were first hired by the legislature before May 30, 1987;
 - iii) 80 days of paid-up PERS service as employees of the legislature during each of the five legislative sessions and they were first hired by the legislature after May 29, 1987;
 - iv) two years of paid-up PERS service and they are vested in the Teachers' Retirement System; or
 - v) two years of paid-up PERS service and a minimum three years of Teachers' Retirement System service to qualify for a public service benefit.
- b) Members may retire at any age when they have:
 - i) 20 paid-up years of PERS Peace Officer/Firefighter service; or
 - ii) 30 paid-up years of PERS "all other" or "elected official" service.

Benefit Type: Lifetime benefits are paid to members. Eligible members may receive normal, unreduced benefits when they (1) reach normal retirement age and complete the service required; or (2) satisfy the minimum service requirements under the "20 and out" or "30 and out" provisions. Members may receive early, actuarially reduced benefits when they reach early retirement age and complete the service required.

Members may elect an early retirement or a joint and survivor option. Members who entered the PERS prior to July 1, 1996 may also select a 66-2/3 last survivor option and a level income option. Under these options and early retirement, benefits are actuarially adjusted so that members receive the actuarial equivalents of their normal benefit amounts.

Benefit Calculations: Retirement benefits are calculated by multiplying the average monthly compensation (AMC) times credited PERS service times the percentage multiplier. The AMC is determined by averaging the salaries earned during the five highest (three highest for Peace Officer/Firefighter members or members hired prior to July 1, 1996) consecutive payroll years. Members must earn at least 115 days of credit in the last year worked to include it in the AMC calculation. The PERS pays a minimum benefit of \$25.00 per month for each year of service when the calculated benefit is less.

The percentage multipliers for Peace Officer/Firefighter members are 2% for the first ten years of service and 2.5% for all service over 10 years.

The percentage multipliers for all Others are 2% for the first ten years, 2.25% for the next ten years, and 2.5% for all remaining service earned on or after July 1, 1986. All service before that date is calculated at 2%.

State of Alaska

Public Employees' Retirement System

Defined Benefit Retirement Plan

Summary of Plan Provisions and Changes in Plan Provisions

Indebtedness: Members who terminate and refund their PERS contributions are not eligible to retire, unless they return to PERS employment and pay back their refunds plus interest or accrue additional service which qualifies them for retirement. PERS refunds must be paid in full if the corresponding service is to count toward the minimum service requirements for retirement. Refunded PERS service is included in total service for the purpose of calculating retirement benefits. However, if a member is otherwise eligible to retire, when refunds are not completely paid before retirement, benefits are actuarially reduced for life. Indebtedness balances may also be created when a member purchases qualified claimed service.

10. Reemployment of Retired Members

Retirement and retiree healthcare benefits are suspended while retired members are reemployed under the PERS. During reemployment, members earn additional PERS service and contributions are withheld from their wages. A member who retired with a normal retirement benefit can elect to waive payment of PERS contributions. The waiver allows the member to continue receiving the retirement benefit during the period of reemployment. Members who elect the waiver option do not earn additional PERS service. The Waiver Option first became effective July 1, 2005 and applies to reemployment periods after that date. The Waiver Option is not available to members who retired early or under the Retirement Incentive Programs (RIPs). The Waiver Option is no longer available after June 30, 2009.

Members retired under the Retirement Incentive Programs (RIPs) who return to employment under the PERS, Teachers' Retirement System (TRS), or the University of Alaska's Optional Retirement Plan will:

- a) forfeit the three years of incentive credits that they received;
- b) owe the PERS 150% of the benefits that they received for state and political subdivision members, and 110% for school district employees, under the 1996-2000 RIP, which may include costs for health insurance, excluding amounts that they paid to participate for the 1986 and 1989 RIPs. Under prior RIPs, the penalty is 110% of the benefits received; and
- c) be charged 7% interest from the date that they are reemployed until their indebtedness is paid in full or they retire again. If the indebtedness is not completely paid, future benefits will be actuarially reduced for life.

Employers make contributions to the unfunded liability of the plan on behalf of rehired retired members at the rate the employer is making contributions to the unfunded liability of the plan for other members.

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Public Employees' Retirement System
Defined Benefit Retirement Plan
Summary of Plan Provisions and Changes in Plan Provisions

11. Postemployment Healthcare Benefits

Major medical benefits are provided to retirees and their surviving spouses by the PERS for all employees hired before July 1, 1986 (Tier 1) and disabled retirees. Employees hired after June 30, 1986 (Tier 2) and their surviving spouses with five years of credited service (or ten years of credited service for those first hired after June 30, 1996 (Tier 3)) must pay the full monthly premium if they are under age sixty and will receive benefits paid by the PERS if they are over age sixty. Tier 3 Members with between five and ten years of credited service must pay the full monthly premium regardless of their age. Tier 2 and Tier 3 Members with less than five years of credited service are not eligible for postemployment healthcare benefits. Tier 2 Members who are receiving a conditional benefit and are age eligible are eligible for postemployment healthcare benefits. In addition, Peace Officers and their surviving spouses with twenty-five years of Peace Officer membership service and Other employees and their surviving spouses with thirty years of membership service receive benefits paid by the PERS, regardless of their age or date of hire. Peace Officers/Firefighters who are disabled between 20 and 25 years must pay the full monthly premium.

12. Disability Benefits

Monthly disability benefits are paid to permanently disabled members until they die, recover or become eligible for normal retirement. Members are appointed to normal retirement on the first of the month after they become eligible.

Occupational Disability: Members are not required to satisfy age or service requirements to be eligible for occupational disability. Monthly benefits are equal to 40% of their gross monthly compensation on the date of their disability. Members on occupational disability continue to earn PERS service until they become eligible for normal retirement. Peace Officer/Firefighter members may elect to retain the disability benefit formula for the calculation of their normal retirement benefits.

Nonoccupational Disability: Members must be vested (five paid-up years of PERS service) to be eligible for nonoccupational disability benefits. Monthly benefits are calculated based on the member's average monthly compensation and PERS service on the date of termination from employment because of disability. Members do not earn PERS service while on nonoccupational disability.

13. Death Benefits

Monthly death benefits may be paid to a spouse or dependent children upon the death of a member. If monthly benefits are not payable under the occupational and nonoccupational death provisions, the designated beneficiary receives the lump sum benefit described below.

Occupational Death: When an active member (vested or nonvested) dies from occupational causes, a monthly survivor's pension may be paid to the spouse. The pension equals 40% of the member's gross monthly compensation on the date of death or disability, if earlier. If there is no spouse, the pension may be paid to the member's dependent children. On the member's normal retirement date, the benefit converts to a normal retirement benefit. The normal benefit is based on the member's salary on the date of death and service, including service accumulated from the date of the member's death to the normal retirement date. Survivors of Peace Officer/Firefighter members receive the greater of 50% of the member's gross monthly compensation on the date of death or disability, or 75% of the member's monthly normal retirement benefit (including service projected to Normal Retirement). If the member is unmarried with no children, a refund of contributions is payable to the estate.

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Death after Occupational Disability: When a member dies while occupationally disabled, benefits are paid as described above in Occupational Death.

Nonoccupational Death: When a vested member dies from nonoccupational causes, the surviving spouse may elect to receive a monthly 50% joint and survivor benefit or a lump sum benefit. The monthly benefit is calculated on the member's average monthly compensation and PERS service at the time of termination or death.

Lump Sum Nonoccupational Death Benefit: Upon the death of a member who has less than one year of service, the designated beneficiary receives the member's contribution account, which includes mandatory and voluntary contributions, indebtedness payments, and interest earned. If the member has more than one year of PERS service or is vested, the beneficiary also receives \$1,000 and \$100 for each year of PERS service.

Death After Retirement: When a retired member dies, the designated beneficiary receives the member's contribution account, less any benefits already paid and the member's last benefit check. If the member selected a survivor option at retirement, the eligible spouse receives continuing, lifetime monthly benefits.

14. Postretirement Pension Adjustments

Postretirement pension adjustments (PRPAs) are granted annually to eligible benefit recipients when the consumer price index (CPI) for urban wage earners and clerical workers for Anchorage increases during the preceding calendar year. PRPAs are calculated by multiplying the recipient's base benefit, including past PRPAs, excluding the Alaska COLA, times:

- a. 75% of the CPI increase in the preceding calendar year or 9%, whichever is less, if the recipient is at least age 65 or on PERS disability; or
- b. 50% of the CPI increase in the preceding calendar year or 6%, whichever is less, if the recipient is at least age 60, or has been receiving benefits for at least five years.

Ad hoc PRPAs, up to a maximum of 4%, may be granted to eligible recipients who first entered the PERS before July 1, 1986 (Tier 1) if the CPI increases and the funding ratio is at least 105%.

In a year where an ad hoc PRPA is granted, eligible recipients will receive the higher of the two calculations.

15. Alaska Cost of Living Allowance

Eligible benefit recipients who reside in Alaska receive an Alaska cost of living allowance (COLA) equal to 10% of their base benefits or \$50, whichever is more. The following benefit recipients are eligible:

- a. members who first entered the PERS before July 1, 1986 (Tier 1) and their survivors;
- b. members who first entered the PERS after June 30, 1986 (Tiers 2 & 3) and their survivors if they are at least age 65; and
- c. all disabled members.

Changes in Benefit Provisions Since the Prior Valuation

There have been no changes in benefit provisions since the prior valuation.



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October 6, 2015

State of Alaska
The Alaska Retirement Management Board
The Department of Revenue, Treasury Division
The Department of Administration, Division of Retirement and Benefits
P.O. Box 110203
Juneau, AK 99811-0203

Certification of Actuarial Valuation

Dear Members of The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration:

This report summarizes the annual actuarial valuation results of the State of Alaska Public Employees' Retirement System Defined Contribution Retirement (PERS DCR) Plan as of June 30, 2014 performed by Buck Consultants, LLC.

The actuarial valuation is based on financial information provided in the financial statements audited by KPMG LLP and member data provided by the Division of Retirement and Benefits and summarized in this report. The benefits considered are those delineated in Alaska statutes effective June 30, 2014. The actuary did not verify the data submitted, but did perform tests for consistency and reasonableness.

All costs, liabilities and other factors under the Plan were determined in accordance with generally accepted actuarial principles and procedures. An actuarial cost method is used to measure the actuarial liabilities which we believe is reasonable. Buck Consultants, LLC is solely responsible for the actuarial data and actuarial results presented in this report. This report fully and fairly discloses the actuarial position of the Plan.

The State of Alaska Public Employees' Retirement System DCR Plan is funded by Employer Contributions in accordance with the funding policy adopted by the Alaska Retirement Management Board (Board) and as required by Alaska state statutes. The funding objective for the State of Alaska Public Employees' Retirement System DCR Plan is to pay required contributions that remain level as a percent of PERS DCR Compensation. The Board has also established a funding policy objective that the required contributions be sufficient to pay the Normal Costs of active plan members, Plan expenses, and amortize the Unfunded Actuarial Accrued Liability as a level percent of PERS DCR Compensation over a closed layered 25-year period. This objective is currently being met and is projected to continue to be met and as required by Alaska state statutes.

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the Plan and reasonable long-term expectations, and represent our best estimate of the anticipated long-term experience under the Plan. The actuary performs an analysis of Plan experience periodically and recommends changes if, in the opinion of the actuary, assumption changes are needed to more accurately reflect expected future experience. The last full

Actuarial Section

experience analysis was performed in 2014. A review of the healthcare assumptions was performed for this actuarial valuation and changes were made to the healthcare cost trend rates and the per capita claims cost rates effective June 30, 2014 to better reflect expected future healthcare experience. A summary of the actuarial assumptions and methods used in this actuarial valuation are shown in Section 5.3.

The assumptions and methods used to determine the Annual Required Contributions (ARC) of the Employers to the State of Alaska Public Employees' Retirement System DCR Plan as outlined in this report and all supporting schedules meet the parameters and requirements for disclosure of Governmental Accounting Standards Board (GASB) Statements No. 25, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans, and No. 43, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans. Based on member data and asset information provided by the Division of Retirement and Benefits, we have prepared the Schedule of Funding Progress, Schedule of Employer Contributions, and trend data schedules under GASB No. 43 that is included in the Financial Section of the CAFR. We have also prepared the member data tables shown in Section 4 of this report for the Statistical Section of the CAFR, and the summary of actuarial assumptions and solvency test for the Actuarial Section of the CAFR.

The undersigned are Associates of the Society of Actuaries, Members of the American Academy of Actuaries, and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all Applicable Actuarial Standards of Practice. We are available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate.

Respectfully submitted,

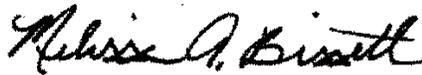


David H. Slishinsky, ASA, MAAA, FCA
Principal, Consulting Actuary



Todd D. Kanaster, ASA, MAAA, FCA
Senior Consultant

The undersigned actuary is responsible for all assumptions related to the average annual per capita health claims cost and the health care cost trend rates, and hereby affirms her qualification to render opinions in such matters, in accordance with the qualification standards of the American Academy of Actuaries.



Melissa A. Bissett, FSA, MAAA
Senior Consultant, Health & Productivity

State of Alaska
Public Employees' Retirement System
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Description of Actuarial Methods and Valuation Procedures

The funding method used in this valuation was adopted by the Board in October 2006. The asset smoothing method used to determine valuation assets was implemented effective June 30, 2006.

Benefits valued are those delineated in Alaska State statutes as of the valuation date. Changes in State statutes effective after the valuation date are not taken into consideration in setting the assumptions and methods.

Valuation of Liabilities

A. Actuarial Method – Entry Age Actuarial Cost

Liabilities and contributions shown in the report are computed using the Entry Age Actuarial Cost method of funding. Any funding surpluses or unfunded accrued liability is amortized over 25 years as a level percentage of expected payroll. Payroll is assumed to increase by the payroll growth assumption per year for this purpose. However, in keeping with GASB requirements, the net amortization period will not exceed 30 years. These requirements under GASB 25 have been amended by GASB 67, effective June 30, 2014. Per KPMG, new accounting standards under GASB 67 and 68 are not applicable to the Occupational Death & Disability benefits under the DCR Plan.

Cost factors designed to produce annual costs as a constant percentage of each member's expected compensation in each year for death & disability benefits (constant dollar amount for retiree medical benefits), from the assumed entry age to the last age with a future benefit were applied to the projected benefits to determine the normal cost (the portion of the total cost of the Plan allocated to the current year under the method). The normal cost is determined by summing intermediate results for active members and determining an average normal cost rate which is then related to the total DCR Plan payroll of active members. The actuarial accrued liability for active members (the portion of the total cost of the Plan allocated to prior years under the method) was determined as the excess of the actuarial present value of projected benefits over the actuarial present value of future normal costs.

The actuarial accrued liability for beneficiaries and disability members currently receiving benefits (if any) was determined as the actuarial present value of the benefits expected to be paid. No future normal costs are payable for these members. The actuarial accrued liability under this method at any point in time is the theoretical amount of the fund that would have been accumulated had annual contributions equal to the normal cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date). The unfunded actuarial accrued liability is the excess of the actuarial accrued liability over the actuarial value of plan assets measured on the valuation date.

Under this method, experience gains or losses, i.e., decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions, adjust the unfunded actuarial accrued liability.

B. Valuation of Assets

Effective June 30, 2006, the asset valuation method recognizes 20% of the investment gain or loss in each of the current and preceding four years. This method will be phased in over five years. Fair Value of Assets were \$0 as of June 30, 2006. All assets are valued at fair value. Assets are accounted for on an accrued basis and are taken

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Description of Actuarial Methods and Valuation Procedures

directly from financial statements audited by KPMG LLP. Valuation assets are constrained to a range of 80% to 120% of the fair value of assets.

C. Valuation of Retiree Medical Benefits

The methodology used for the valuation of the retiree medical benefits is described in Section 6.2(c) of the State of Alaska Public Employees' Retirement System Defined Benefit Plan Actuarial Valuation Report as of June 30, 2014.

Due to the lack of experience for the DCR Plan only, base claims costs are based on those described in the actuarial valuation as of June 30, 2014 for PERS with some adjustments. The claims costs were adjusted to reflect the differences between the DCR medical plan and the DB medical plan. These differences include network steerage, different coverage levels and an indexing of the retiree out-of-pocket dollar amounts. To account for higher initial copays, deductibles and out-of-pocket limits, FY14 claims costs were reduced 11.9% for medical and 7.1% for prescription drugs. Retiree out-of-pocket amounts were indexed 0.2% each year to reflect the effect of the deductible leveraging on trend and other plan design features.

No implicit subsidies are assumed. Employees projected to retire with 30 years of service prior to Medicare (25 years for PERS peace officer/firefighter) are valued with commencement deferred to Medicare eligibility, as such members will be required to pay the full plan premium. Explicit subsidies for disabled and normal retirement are determined using the plan-defined percentages of total projected plan costs, again with no implicit subsidy assumed.

D. Healthcare Reform

Healthcare Reform legislation passed on March 23, 2010 included several provisions with potential implications for the State of Alaska Retiree Health Plan liability. Buck evaluated the impact due to the following provisions; however, only the Patient Centered Outcomes Research Institute fee impact has been included in the valuation results as part of administrative fee.

Because the State plan is retiree-only, and was in effect at the time the legislation was enacted, not all provisions are required. Unlimited lifetime benefits and dependent coverage to age 26 are two of these provisions. We did look at the impact of including these provisions, but there was no decision made to adopt them, and no requirement to do so.

The Plan will be subject to the high cost plan excise tax (Cadillac tax). Based upon guidance available at the time of disclosure, Buck determined the impact to be immaterial based on a blend of pre-Medicare and Medicare retirees and the projected impact to future healthcare cost trends due to the estimated tax.

We have not identified any other specific provisions of healthcare reform that would be expected to have a significant impact on the measured obligation. As additional guidance on the legislation is issued, we will continue to monitor any potential impacts.

E. Changes in Methods Since the Prior Valuation

There have been no changes in methods since the prior valuation.

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Summary of Actuarial Assumptions and Changes in Assumptions

The demographic and economic assumptions used in the June 30, 2014 valuation are described below. Unless noted otherwise, these assumptions were adopted by the Board in December 2010. These assumptions were the result of an experience study performed for the DB Plan as of June 30, 2009.

- | | | |
|-----|-----------------------------------|---|
| 1. | Investment Return / Discount Rate | 8.00% per year (geometric), compounded annually, net of expenses. |
| 2. | Salary Scale | Inflation – 3.12% per year. Productivity – 0.50% per year. See Table 1 for salary scale rates. |
| 3. | Payroll Growth | 3.62% per year. (Inflation + Productivity). |
| 4. | Total Inflation | Total inflation as measured by the Consumer Price Index for urban and clerical workers for Anchorage is assumed to increase 3.12% annually. |
| 5. | Mortality (Pre-termination)* | Based upon the 2010-2013 actual mortality experience (see Table 2). 60% of male rates and 65% of female rates of the Post-Termination Mortality rates.

Deaths are assumed to be occupational 70% of the time for Peace Officer/Firefighter, 50% of the time for Others. |
| 6. | Mortality (Post-termination)* | Based upon 2010-2013 actual mortality experience (see Table 3).

96% of all rates of the RP-2000 table, 2000 Base Year projected to 2018 with Projection Scale BB. |
| 7. | Total Turnover | Rates based upon the 2010-2013 actual experience. (See Table 4.) |
| 8. | Disability | Incidence rates based upon the 2010-2013 actual experience, in accordance with Table 5.

Post-disability mortality in accordance with the RP-2000 Disabled Retiree Mortality Table, 2000 Base Year projected to 2018 with Projection Scale BB.

Disabilities are assumed to be occupational 70% of the time for Peace Officer/Firefighter, 50% of the time for Others.

For Peace Officer/Firefighters, members are assumed to take the monthly annuity 100% of the time. |
| 9. | Retirement | Retirement rates based upon the 2010-2013 actual experience in accordance with Table 6. |
| 10. | Marriage and Age Difference | Wives are assumed to be three years younger than husbands. For Others, 75% of male members and 70% female members are assumed to be married.

For Peace Officer/Firefighters, 85% of male members and 60% female members are assumed to be married. |

*The mortality assumptions include an allowance for expected future mortality improvement. The mortality table used was set in 2014 with an Actual Deaths to Expected Deaths ratio of 109%.

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Summary of Actuarial Assumptions and Changes in Assumptions

11. Part-time Status Part-time employees are assumed to earn 1.00 years of credited service per year for Peace Officer/Firefighter and 0.65 years for credited service per year for Other members.

12. Peace Officer/Firefighter Occupational Disability Retirement Benefit Commencement The occupational disability retirement benefit is assumed to be first payable from the member's DC account and the retirement benefit payable from the occupational death and disability trust will commence five years later.

13. Expenses All expenses are net of the investment return assumption.

14. Per Capita Claims Cost Sample claims cost rates adjusted to age 65 for FY15 medical benefits are shown below:

	Medical	Prescription drugs
Pre-Medicare	\$ 12,362	\$ 2,624
Medicare Parts A & B	1,657	2,624
Medicare Part B Only	7,920	2,624
Medicare Part D	N/A	507

15. Third Party Administrator Fees \$193.98 per person per year; assumed trend rate of 5% per year.

16. Base Claims Cost Adjustments Due to higher initial copays, deductibles, out-of-pocket limits and member cost sharing compared to the DB medical plan, the following cost adjustments are applied to the per capita claims cost rates above:

- 0.881 for the medical plan.
- 0.929 for the prescription drug plan.
- 0.998 for the annual indexing of member cost sharing.

17. Health Cost Trend The table below shows the rate used to project the cost from the shown fiscal year to the next fiscal year. For example, 10.0% is applied to the FY15 pre-Medicare medical claims costs to get the FY16 medical claims costs.

Fiscal year	Medical pre-65	Medical post-65	Prescription drugs
2015	10.0%	6.0%	6.0%
2016	9.4	5.9	5.7
2017	8.8	5.8	5.4
2018	8.2	5.7	5.1
2019	7.6	5.6	4.8
2020	7.0	5.6	4.6
2021	6.5	5.6	4.4
2025	5.6	5.6	4.2
2050	4.4	4.0	4.0
2100	4.4	4.0	4.0

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Summary of Actuarial Assumptions and Changes in Assumptions

As of the June 30, 2014 valuations and later, the updated Society of Actuaries' Healthcare Cost Trend Model is used to project medical and prescription drug costs. This model effectively begins estimating trend amounts beginning in 2014 and projects out to 2090. The model has been adopted by the Society of Actuaries, and has been populated with assumptions that are specific to the State of Alaska.

	Age	Medical	Prescription drugs
18. Aging Factors	0-44	2.0%	4.5%
	45-54	2.5	3.5
	55-64	3.5	3.0
	65-73	4.0	1.5
	74-83	1.5	0.5
	84-93	0.5	—
	94 +	—	—

	Decrement due to disability		Decrement due to retirement		
	Age	Percent participation	Age	Percent participation	
19. Retiree Medical Participation	<56	73.00%	55	40.00%	
	56	77.50	56	50.00	
	57	79.75	57	55.00	
	58	82.00	58	60.00	
	59	84.25	59	65.00	
	60	86.50	60	70.00	
	61	88.75	61	75.00	
	62	91.00	62	80.00	
	63	93.25	63	85.00	
	64	95.50	64	90.00	
	65+	94.00	65+	Years of Service	
				<15	70.50%
				15-19	75.20
				20-24	79.90
				25-29	89.30
				30+	94.00

*Participation rates reflect the expected plan election rate that varies by reason for decrement, duration that a member may pay full cost prior to Medicare eligibility, and availability of alternative and/or lower cost options, particularly in the Medicare market.

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State of Alaska
Public Employees' Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

Table 1
 Alaska PERS DCR Plan
 Salary Scale

Peace Officer/Firefighter:

Year of Service	Percent Increase
0	9.66%
1	8.66
2	7.16
3	7.03
4	6.91
5	6.41
6	5.66
7+	4.92

Others:

Year of Service	Percent Increase
0	8.55%
1	7.36
2	6.35
3	6.11
4	5.71
5+	Age based

Age	Percent Increase	Age	Percent Increase
20	7.91%	45	5.44%
21	7.83	46	5.40
22	7.75	47	5.36
23	7.51	48	5.31
24	7.27	49	5.27
25	7.03	50	5.22
26	6.79	51	5.18
27	6.55	52	5.13
28	6.52	53	5.09
29	6.49	54	5.05
30	6.47	55	5.01
31	6.44	56	4.97
32	6.41	57	4.93
33	6.33	58	4.85
34	6.24	59	4.77
35	6.16	60	4.69
36	6.07	61	4.60
37	5.99	62	4.52
38	5.90	63	4.46
39	5.82	64	4.40
40	5.73	65+	4.34
41	5.64		
42	5.55		
43	5.52		
44	5.48		

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 2
 Alaska PERS DCR Plan
 Mortality Table (Pre-termination)

Age	Male	Female	Age	Male	Female
20	0.000188	0.000113	55	0.001978	0.001549
21	0.000195	0.000114	56	0.002292	0.001730
22	0.000200	0.000115	57	0.002515	0.001912
23	0.000204	0.000116	58	0.002775	0.002118
24	0.000205	0.000119	59	0.003073	0.002355
25	0.000205	0.000122	60	0.003425	0.002632
26	0.000206	0.000127	61	0.003826	0.002973
27	0.000208	0.000132	62	0.004287	0.003343
28	0.000214	0.000139	63	0.004813	0.003840
29	0.000225	0.000147	64	0.005324	0.004328
30	0.000242	0.000156	65	0.005904	0.004874
31	0.000272	0.000181	66	0.006558	0.005500
32	0.000307	0.000207	67	0.007184	0.006107
33	0.000344	0.000233	68	0.007842	0.006751
34	0.000383	0.000257	69	0.008689	0.007462
35	0.000422	0.000281	70	0.009744	0.008407
36	0.000459	0.000304	71	0.010782	0.009329
37	0.000493	0.000327	72	0.011971	0.010376
38	0.000526	0.000354	73	0.013334	0.011534
39	0.000557	0.000383	74	0.014876	0.012783
40	0.000589	0.000417	75	0.016602	0.014113
41	0.000623	0.000458	76	0.018504	0.015549
42	0.000663	0.000504	77	0.020583	0.017125
43	0.000709	0.000554	78	0.022872	0.018877
44	0.000762	0.000608	79	0.025419	0.020841
45	0.000823	0.000664	80	0.028245	0.023037
46	0.000882	0.000723	81	0.031612	0.025498
47	0.000946	0.000784	82	0.035318	0.028266
48	0.001015	0.000848	83	0.039369	0.031386
49	0.001089	0.000916	84	0.043784	0.034906
50	0.001167	0.000991	85	0.048601	0.038887
51	0.001336	0.001095	86	0.053884	0.043371
52	0.001455	0.001193	87	0.060797	0.048373
53	0.001591	0.001305	88	0.068537	0.053879
54	0.001744	0.001407	89	0.077135	0.059830
			90	0.086571	0.067336

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State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 3
Alaska PERS DCR Plan
Mortality Table (Post-termination)

Age	Male	Female	Age	Male	Female
50	0.001944	0.001524	85	0.081002	0.059827
51	0.002227	0.001684	86	0.089807	0.066725
52	0.002426	0.001835	87	0.101329	0.074420
53	0.002652	0.002007	88	0.114229	0.082891
54	0.002907	0.002165	89	0.128559	0.092046
55	0.003296	0.002383	90	0.144286	0.103593
56	0.003820	0.002662	91	0.160042	0.115847
57	0.004192	0.002942	92	0.176712	0.128589
58	0.004625	0.003259	93	0.194120	0.141591
59	0.005121	0.003623	94	0.212080	0.154643
60	0.005708	0.004050	95	0.230428	0.167558
61	0.006377	0.004574	96	0.249035	0.180154
62	0.007144	0.005143	97	0.267822	0.192248
63	0.008021	0.005908	98	0.281616	0.200025
64	0.008874	0.006658	99	0.300310	0.210437
65	0.009839	0.007498	100	0.313360	0.215967
66	0.010930	0.008462	101	0.332097	0.226721
67	0.011973	0.009396	102	0.344188	0.235671
68	0.013070	0.010386	103	0.361155	0.250844
69	0.014482	0.011479	104	0.369606	0.263111
70	0.016240	0.012933	105	0.381971	0.281391
71	0.017969	0.014352	106	0.384000	0.295499
72	0.019952	0.015964	107	0.384000	0.309816
73	0.022223	0.017744	108	0.384000	0.323943
74	0.024793	0.019666	109	0.384000	0.337482
75	0.027670	0.021712	110	0.384000	0.350032
76	0.030840	0.023921	111	0.384000	0.361196
77	0.034305	0.026346	112	0.384000	0.370574
78	0.038120	0.029042	113	0.384000	0.377767
79	0.042365	0.032063	114	0.384000	0.382376
80	0.047075	0.035441	115	0.384000	0.384000
81	0.052687	0.039227	116	0.384000	0.384000
82	0.058863	0.043487	117	0.384000	0.384000
83	0.656150	0.048286	118	0.384000	0.384000
84	0.072973	0.053702	119	1.000000	1.000000

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 4
 Alaska PERS DCR Plan
 Turnover Assumptions

Peace Officer/Firefighter:

Select Rates of Turnover During the First 5 Years of Employment

Year of Service	Male (rounded)	Female (rounded)
0	0.180	0.165
1	0.135	0.132
2	0.100	0.110
3	0.090	0.099
4	0.080	0.088

**Ultimate Rates of Turnover
 After the First 5 Years of Employment**

Age	Female	Male	Age	Female	Male
20	0.085500	0.048000	45	0.078800	0.049678
21	0.085500	0.048000	46	0.078400	0.049061
22	0.085500	0.048000	47	0.078000	0.048444
23	0.085500	0.049120	48	0.077400	0.052256
24	0.085500	0.050240	49	0.076800	0.056067
25	0.085500	0.051360	50	0.076200	0.059878
26	0.085500	0.052480	51	0.075600	0.063689
27	0.085500	0.053600	52	0.075000	0.067500
28	0.085275	0.053528	53	0.076154	0.069300
29	0.085050	0.053456	54	0.077308	0.071100
30	0.084825	0.053384	55	0.078462	0.072900
31	0.084600	0.053312	56	0.079615	0.074700
32	0.084375	0.053239	57	0.080769	0.076500
33	0.084214	0.053119	58	0.081923	0.078480
34	0.084054	0.052998	59	0.083077	0.080460
35	0.083893	0.052878	60	0.084231	0.082440
36	0.083732	0.052757	61	0.085385	0.084420
37	0.083571	0.052636	62	0.086538	0.086400
38	0.082857	0.052415	63	0.087692	0.107600
39	0.082143	0.052194	64	0.088846	0.128800
40	0.081429	0.051972	65+	0.090000	0.150000
41	0.080714	0.051751			
42	0.080000	0.051529			
43	0.079600	0.050912			
44	0.079200	0.050295			

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 4
 Alaska PERS DCR Plan
 Turnover Assumptions

Others:

Select Rates of Turnover During the First 5 Years of Employment

Year of Service	Male (rounded)	Female (rounded)
0	0.232	0.267
1	0.200	0.213
2	0.160	0.170
3	0.128	0.136
4	0.090	0.178

Ultimate Rates of Turnover
 After the First 5 Years of Employment

Age	Female	Male	Age	Female	Male
20	0.150000	0.109667	45	0.071847	0.061728
21	0.150000	0.109667	46	0.068938	0.060789
22	0.150000	0.109667	47	0.066029	0.059850
23	0.150067	0.109674	48	0.065749	0.061414
24	0.150133	0.109681	49	0.065469	0.062977
25	0.150200	0.109689	50	0.065189	0.064541
26	0.150267	0.109696	51	0.064908	0.066104
27	0.150333	0.109703	52	0.064628	0.067668
28	0.144910	0.107312	53	0.066022	0.067714
29	0.139486	0.104921	54	0.067416	0.067760
30	0.134062	0.102529	55	0.068809	0.067806
31	0.128638	0.100138	56	0.070203	0.067853
32	0.123214	0.097747	57	0.071597	0.067899
33	0.117230	0.093219	58	0.074069	0.070131
34	0.111246	0.088692	59	0.076541	0.072363
35	0.105261	0.084164	60	0.079014	0.074595
36	0.099277	0.079637	61	0.081486	0.076827
37	0.093293	0.075110	62	0.083958	0.079059
38	0.090749	0.072996	63	0.095528	0.082239
39	0.088205	0.070883	64	0.107097	0.085420
40	0.085661	0.068770	65+	0.118667	0.088600
41	0.083117	0.066657			
42	0.080573	0.064544			
43	0.077664	0.063605			
44	0.074756	0.062667			

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 5
 Alaska PERS DCR Plan
 Disability Table

Age	Peace Officer/ Firefighter Rate	Other Member Rate	
		Male	Female
20	0.000224	0.000218	0.000188
21	0.000224	0.000218	0.000188
22	0.000224	0.000218	0.000188
23	0.000305	0.000240	0.000200
24	0.000387	0.000261	0.000212
25	0.000468	0.000283	0.000224
26	0.000550	0.000304	0.000236
27	0.000631	0.000326	0.000248
28	0.000658	0.000334	0.000255
29	0.000685	0.000342	0.000262
30	0.000712	0.000349	0.000269
31	0.000739	0.000357	0.000277
32	0.000765	0.000365	0.000284
33	0.000793	0.000377	0.000293
34	0.000821	0.000389	0.000303
35	0.000849	0.000401	0.000312
36	0.000877	0.000413	0.000322
37	0.000905	0.000425	0.000331
38	0.000946	0.000446	0.000348
39	0.000986	0.000467	0.000364
40	0.001027	0.000489	0.000381
41	0.001068	0.000510	0.000397
42	0.001108	0.000531	0.000413
43	0.001221	0.000586	0.000454
44	0.001333	0.000641	0.000495
45	0.001446	0.000695	0.000536
46	0.001559	0.000750	0.000577
47	0.001671	0.000805	0.000618
48	0.001828	0.000886	0.000680
49	0.001985	0.000967	0.000742
50	0.002142	0.001048	0.000804
51	0.002299	0.001129	0.000867
52	0.002456	0.001210	0.000929
53	0.002868	0.001421	0.001084
54	0.003280	0.001633	0.001239

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 6
Alaska PERS DCR Plan
Retirement Table

Age	Rate
≤50	2.00%
51	2.00
52	2.00
53	2.00
54	2.00
55	3.00
56	3.00
57	3.00
58	3.00
59	3.00
60	5.00
61	5.00
62	10.00
63	5.00
64	5.00
65	25.00
66	25.00
67	25.00
68	20.00
69	20.00
70	100.00

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Changes in Actuarial Assumptions Since the Prior Valuation

	June 30, 2013	June 30, 2014
Salary Scale	<p>Based on actual experience from 2005 to 2009.</p> <p><u>Peace Officer/Firefighter</u>: Rates are increased for the first 4 years. Decreased at year 5.</p> <p><u>Others</u>: Based on actual experience from 2005 to 2009. Increased most rates.</p>	<p>Inflation - 3.12% per year.</p> <p>Productivity - 0.50% per year.</p> <p>See Table 1 for salary scale rates.</p>
Pre-termination Mortality	<p><u>Peace Officer/Firefighter</u>: 80% of the male and 60% of the female rates of the 1994 GAM Table, 1994 Base Year without margin projected to 2013 using Projection Scale AA.</p> <p><u>Others</u>: 75% of the male and 55% of the female rates of the 1994 GAM Table, 1994 Base Year without margin projected to 2013 with Projection Scale AA.</p>	<p>Based upon 2010-2013 actual mortality experience (See Table 2).</p> <p>60% of male rates and 65% of female rates of the Post-Termination Mortality rates.</p> <p>Deaths are assumed to be occupational 70% of the time for Peace Officer/Firefighters, 50% of the time for Others.</p>
Post-termination Mortality	<p>1994 GAM Table, 1994 Base Year without margin projected to 2013 using Projection Scale AA for males and 1-year set-forward for females.</p>	<p>96% of all rates of the RP-2000 table, 2000 Base Year projected to 2018 with Projection Scale BB. (See Table 3.)</p>
Disability	<p>RP-2000 Disabled Retiree Mortality Table.</p>	<p>Incidence rates based on 2010-2013 actual experience, in accordance with Table 5.</p> <p>Post-Termination Disabled Mortality in accordance with RP-2000 Disabled Retiree Mortality Table, 2000 Base Year projected to 2018 with Projection Scale BB.</p> <p>Disabilities are assumed to be occupational 70% of the time for Peace Officer/Firefighters, 50% of the time for Others.</p>
Turnover	<p>Rates adjusted based on actual PERS DB Plan experience from 2005 to 2009. Ultimate rates are equal to DB Plan rates loaded by 10%.</p>	<p>Rates based upon the 2010-2013 actual experience. (See Table 4.)</p>
Occupational Death and Disability	<p>Others: 55%</p> <p>Peace Officer/Firefighter: 75%</p>	<p>Others: 50%</p> <p>Peace Officer/Firefighter: 70%</p>

Actuarial Section

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

June 30, 2013

June 30, 2014

Health Cost Trend

June 30, 2013				June 30, 2014			
Fiscal year	Medical pre-65	Medical post-65	Prescription drugs	Fiscal year	Medical pre-65	Medical post-65	Prescription drugs
2014	8.7%	6.4%	6.3%	2015	10.0%	6.0%	6.0%
2015	8.5	6.3	6.2	2016	9.4	5.9	5.7
2016	8.0	6.3	6.2	2017	8.8	5.8	5.4
2017	7.5	6.2	6.1	2018	8.2	5.7	5.1
2018	7.0	6.1	6.0	2019	7.6	5.6	4.8
2019	6.6	6.1	5.8	2020	7.0	5.6	4.6
2020	6.4	6.1	5.8	2021	6.5	5.6	4.4
2025	6.0	6.0	5.7	2025	5.6	5.6	4.2
2050	5.0	5.0	5.0	2050	4.4	4.0	4.0
2100	4.5	4.5	4.5	2100	4.4	4.0	4.0

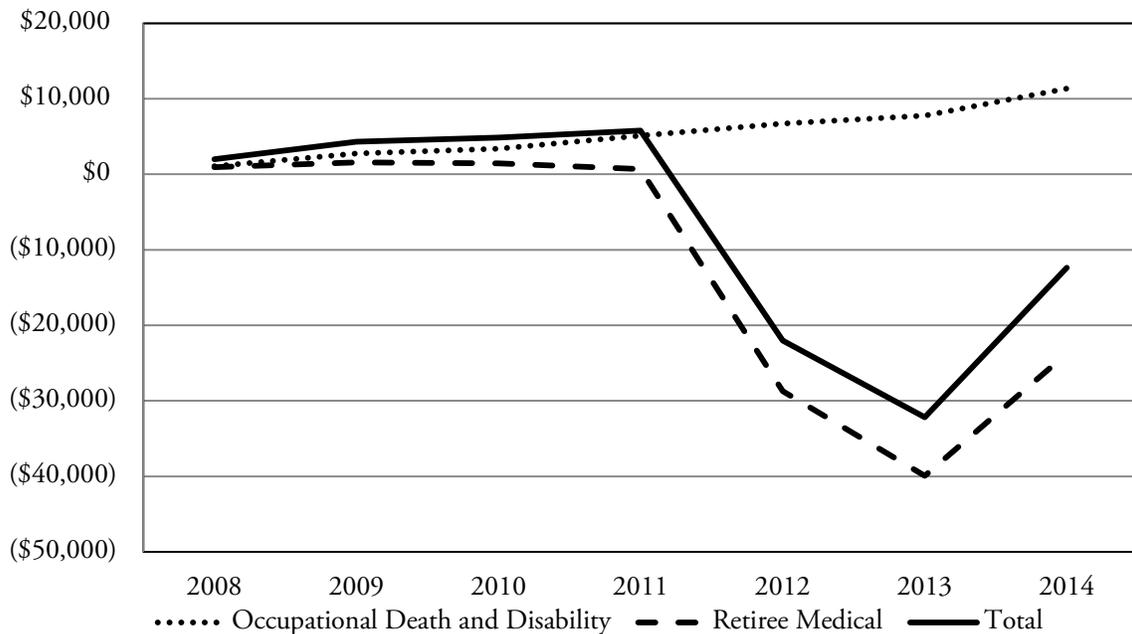
Trend Rate for Retired Member Medical Contribution

FY 13 Trend Assumption		FY 14 Trend Assumption	
Fiscal year:		Fiscal year:	
2014	8.2%	2015	7.0%
2015	8.0	2016	6.6
2016	7.6	2017	6.2
2017	7.2	2018	5.8
2018	6.7	2019	5.4
2019	6.4	2020	5.0
2025	5.9	2025	4.1
2050	5.0	2050	4.0
2100	4.5	2100	4.0

**Public Employees' Retirement System
Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Funding Excess/(Unfunded Liability)
(In thousands)**

Actuarial Valuation Year Ended June 30	Occupational Death and Disability	Retiree Medical	Total Funding Excess/ (Unfunded Liability)	Funded Ratio
2008	\$ 1,046	\$ 943	\$ 1,989	198.6%
2009	2,735	1,562	4,297	199.6
2010	3,386	1,460	4,846	171.1
2011	5,100	707	5,807	143.8
2012	6,730	(28,736)	(22,006)	53.1
2013	7,770	(39,946)	(32,176)	49.6
2014	11,368	(23,751)	(12,383)	77.0

**7-YEAR TREND OF FUNDING EXCESS/(UNFUNDED) LIABILITY
(In thousands)**



Actuarial Section

Public Employees' Retirement System Defined Contribution Retirement Plan Occupational Death and Disability and Retiree Medical Benefits Employer Contribution Rates								
	Actuarially Determined							
Fiscal Year	Actuarial Valuation Year Ended June 30	Occupational Death and Disability		Retiree Medical	Total Annual Required		Adopted	
		Peace Officer/Firefighter	Others		Peace Officer/Firefighter	Others	Peace Officer/Firefighter	Others
2008	N/A	1.33%	0.58%	0.99%	2.32%	1.57%	2.32%	1.57%
2009	N/A	1.33	0.58	0.99	2.32	1.57	2.32	1.57
2010	2007	1.33	0.30	0.83	2.16	1.13	2.16	1.13
2011	2008	1.18	0.31	0.55	1.73	0.86	1.73	0.86
2012	2009	0.97	0.11	0.51	1.48	0.62	1.48	0.62
2013	2010	0.99	0.14	0.48	1.47	0.62	1.47	0.62
2014	2011	1.14	0.20	0.48	1.62	0.68	1.62	0.68
2015	2012	1.06	0.22	1.66	2.72	1.88	2.72	1.88
2016	2013	1.05	0.22	1.68	2.73	1.90	2.73	1.90
2017	2014	0.49	0.17	1.18	1.67	1.35	1.67	1.35

Valuations are used to set contribution rates in future years.

Public Employees' Retirement System Defined Contribution Retirement Plan Occupational Death and Disability and Retiree Medical Benefits Schedule of Active Member Valuation Data					
Valuation Date	Number	Annual Earnings¹ (In thousands)	Annual Average Earnings	Percent Increase/ (Decrease) in Average Earnings	Number of Participating Employers
June 30, 2014	15,800	\$ 857,150	\$ 54,250	3.7%	159
June 30, 2013	14,316	748,658	52,295	4.7	159
June 30, 2012	12,597	629,128	49,943	4.5	160
June 30, 2011	10,965	524,088	47,796	4.8	160
June 30, 2010	9,232	421,187	45,622	5.4	160
June 30, 2009	7,256	314,118	43,291	7.2	160
June 30, 2008	5,052	203,955	40,371	8.1	159
June 30, 2007	2,827	105,611	37,358	—	160
June 30, 2006	—	—	—	—	—

¹ Annual earnings are the annualized earnings for the fiscal year ending on the valuation date.

Actuarial Section

Public Employees' Retirement System Defined Contribution Retirement Plan Occupational Death and Disability Solvency Test (In thousands)							
Valuation Date	Occupational Death and Disability Aggregate Accrued Liability For:			Occupational Death and Disability Valuation Assets	Portion of Accrued Liabilities Covered by Assets:		
	(1) Active Member Contributions	(2) Inactive Members	(3) Active Members (Employer-Financed Portion)		(1)	(2)	(3)
June 30, 2014	\$ —	\$ —	\$ 3,627	\$ 14,995	100.0%	100.0%	100.0%
June 30, 2013	—	—	3,603	11,373	100.0	100.0	100.0
June 30, 2012	—	—	2,412	9,142	100.0	100.0	100.0
June 30, 2011	—	—	1,949	7,049	100.0	100.0	100.0
June 30, 2010 ¹	—	—	853	4,801	100.0	100.0	100.0
June 30, 2009 ¹	—	—	403	3,138	100.0	100.0	100.0
June 30, 2008	—	—	242	1,288	100.0	100.0	100.0
June 30, 2007	—	—	48	188	100.0	100.0	100.0
June 30, 2006	—	—	—	—	N/A	N/A	N/A
¹ Change in Assumptions							

Public Employees' Retirement System Defined Contribution Retirement Plan Retiree Medical Solvency Test (In thousands)							
Valuation Date	Retiree Medical Aggregate Accrued Liability For:			Retiree Medical Valuation Assets	Portion of Accrued Liabilities Covered by Assets:		
	(1) Active Member Contributions	(2) Inactive Members	(3) Active Members (Employer-Financed Portion)		(1)	(2)	(3)
June 30, 2014	\$ —	\$ —	\$ 50,217	\$ 26,466	100.0%	100.0%	52.7%
June 30, 2013	—	—	60,282	20,336	100.0	100.0	33.7
June 30, 2012 ¹	—	—	44,509	15,773	100.0	100.0	35.4
June 30, 2011	—	—	11,302	12,009	100.0	100.0	100.0
June 30, 2010 ¹	—	—	7,185	8,767	100.0	100.0	100.0
June 30, 2009 ¹	—	—	3,913	5,475	100.0	100.0	100.0
June 30, 2008 ¹	—	—	1,776	2,719	100.0	100.0	100.0
June 30, 2007	—	—	711	1,067	100.0	100.0	100.0
June 30, 2006	—	—	—	—	N/A	N/A	N/A

Retiree medical liabilities are calculated using the funding assumptions (i.e., funding investment return and net of Medicare Part D subsidy).

¹ Change in Assumptions

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Plan Provisions and Changes in Plan Provisions

1. **Effective Date**

July 1, 2006, with amendments through June 30, 2014.

2. **Administration of Plan**

The Commissioner of Administration or the Commissioner's designee is the administrator of the Plan. The Attorney General of the state is the legal counsel for the Plan and shall advise the administrator and represent the Plan in legal proceedings.

The Alaska Retirement Management Board prescribes policies, adopts regulations, invests the funds, and performs other activities necessary to carry out the provisions of the Plan.

3. **Employers Included**

Currently there are 159 employers participating in the PERS DCR Plan, including the State of Alaska, and 158 political subdivisions and public organizations.

4. **Membership**

An employee of a participating employer who first enters service on or after July 1, 2006, or a member of the defined benefit plan who works for an employer who began participation on or after July 1, 2006, and meets the following criteria is a participant in the Plan:

- Permanent full-time or part-time employees of the State of Alaska, participating political subdivisions or public organizations. An employee must be regularly scheduled to work 30 or more hours per week to be considered full-time by the PERS. An employee must be regularly scheduled to work 15 or more hours per week but less than 30 hours to be considered a part-time employee for PERS purposes.
- Elected state officials.
- Elected municipal officials who are compensated and receive at least \$2,001.00 per month.

Members can convert to the DCR Plan if they are an eligible nonvested member of the PERS defined benefit plan whose employer consents to transfers to the defined contribution plan and they elect to transfer his or her account balance to the PERS DCR Plan.

5. **Member Contributions**

There are no member contributions for the occupational death & disability and retiree medical benefits.

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Plan Provisions and Changes in Plan Provisions

6. Retiree Medical

- Member must retire directly from the plan to be eligible for retiree medical coverage. Normal retirement eligibility is the earlier of a) 30 years of service for Others members and 25 years of service for Peace Officer/Firefighter members, or b) Medicare eligible and 10 years of service.
- No retiree medical benefits are provided until normal retirement eligibility. The member's premium is 100% until they are Medicare eligible.
- Coverage cannot be denied except for failure to pay premium.
- Members who are receiving disability benefits or survivors who are receiving monthly survivor benefits are not eligible until the member meets, or would have met if he/she had lived, the normal retirement eligibility requirements.
- The plan's coverage is supplemental to Medicare.
- The Medicare-eligible premium will be based on the member's years of service. The percentage of premium paid by the member is as follows:

<u>Years of Service</u>	<u>Percent of Premium Paid by Member</u>
Less than 15 years	30.00%
15 – 19	25.00
20 – 24	20.00
25 – 29	15.00
30 years or more	10.00

7. Occupational Disability Benefits

- Benefit is 40% of salary at date of disability.
- For Peace Officer and Firefighters there is a Disability Benefit Adjustment such that:
 - The disability benefit is increased by 75% of the cost of living increase in the preceding calendar year or 9%, whichever is less.
 - At the time the disabled member retires, the retirement benefit will be increased by a percentage equal to the total cumulative percentage that has been applied to the disability benefit. Monthly annuity payments are made for the member's contribution balance until the fund is exhausted, at which the plan pays all remaining payments.
- For Others, there is no increase in the occupational disability benefit after commencement.
- Benefits cease when the member becomes eligible for normal retirement at Medicare-eligible age and 10 years of service, or at any age with 30 years of service for Others members or 25 years of service for Peace Officer/Firefighter members.
- Peace Officer/Firefighter members may select the defined contribution account or the monthly benefit payable as if they were retiring under Tier 3 (service continues during disability, final average salary is as of date of disability).
- No retiree medical benefits are provided until normal retirement eligibility. The member's premium is 100% until they are Medicare-eligible. Medicare-eligible premiums follow the service-based schedule above.

State of Alaska
Public Employees' Retirement System
Defined Contribution Retirement Plan
Summary of Plan Provisions and Changes in Plan Provisions

8. Occupational Death Benefits

- Benefit is 40% of salary for Others members and 50% of salary for Peace Officer/Firefighter members.
- Survivor's Pension Adjustment: A survivor's pension is increased by 50% of the cost of living increase in the preceding calendar year or 6%, whichever is less, if the recipient is at least age 60 on July 1, or under age 60 if the recipient has been receiving PERS benefits for at least 8 years as of July 1.
- Benefits cease when the member would have become eligible for normal retirement.
- The period during which the survivor is receiving benefits is counted as service credit toward retiree medical benefits.
- No retiree medical benefits are provided until the member would have been eligible for normal retirement. The surviving spouse's premium is 100% until the member would have been Medicare eligible. Medicare-eligible premiums follow the service-based schedule above.

Changes Since the Prior Valuation

Effective for the June 30, 2014 valuation, the board adopted the changes to the demographic and economic assumptions recommended by the actuary, based on the results of an experience analysis performed on the population experience from July 1, 2009 to June 30, 2013. The changes in assumptions were adopted by the Board during the December 2014 Board meeting. We also updated the Healthcare Cost Trend and Contribution Trend assumptions.

Due to plan clarification, the PRPA was added to the occupational death and disability benefits for Peace Officers and Firefighters. The PRPA was added to the occupational death benefit for Others.