



*South Dakota Department of Labor,  
Job Service, Unemployment Division,  
and Office of Administrative Services  
Retirement Plan*

Actuarial Valuation  
July 1, 2013

March 2014

**SOUTH DAKOTA DEPARTMENT OF LABOR  
JOB SERVICE, UNEMPLOYMENT DIVISION,  
AND OFFICE OF ADMINISTRATIVE SERVICES  
RETIREMENT PLAN**

**ACTUARIAL VALUATION OPINION**

This report presents the results of the actuarial valuation of the South Dakota Department of Labor Job Service, Unemployment Division, and Office of Administrative Services Retirement Plan as of July 1, 2013. In our opinion, this report is complete and accurate and represents fairly the actuarial position of the Plan for the purposes stated herein.

This actuarial valuation has been prepared based upon participant data and asset information provided by the South Dakota Department of Labor and the Principal Financial Group as of July 1, 2013. The actuary has analyzed the data and other information provided for reasonableness, but has not independently audited the data. The actuary has no reason to believe the data or other information provided is not complete and accurate, and knows of no further information that is essential to the preparation of the actuarial valuation.

In our opinion, all costs, liabilities, rates of interest, and other factors underlying these actuarial computations have been determined on the basis of actuarial assumptions and methods, which are each reasonable (or consistent with authoritative guidance) taking into account the experience of the Plan and future expectations and which, when combined, represent our best estimate of anticipated experience under the Plan.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operations of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

Our scope did not include analyzing the potential range of such future measurements, and we did not perform that analysis.

The undersigned with actuarial credentials meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

This report was prepared solely for the benefit and internal use of the plan sponsor. This report is not intended for the benefit of any other party and may not be relied upon by any third party for any purpose, and Deloitte Consulting accepts no responsibility or liability with respect to any party other than the plan sponsor.

Any tax advice included in this written or electronic communication was not intended or written to be used, and it cannot be used by the taxpayer, for the purpose of avoiding any penalties that may be imposed by any governmental taxing authority or agency.

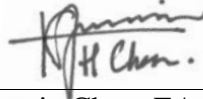
To the best of our knowledge, no employee of the Deloitte U.S. Firms is an officer or director of the employer. In addition, we are not aware of any relationship between the Deloitte U.S. Firms and the employer that may impair or appear to impair the objectivity of the work detailed in this report.

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## REPORT HIGHLIGHTS

	<u>7/1/2012 Valuation</u>	<u>7/1/2013 Valuation</u>	<b>For Details Please See:</b>
<b>Section I.            Participant Data</b>			Page 1
A. Active Participants	27	19	
B. Retirees and Beneficiaries	219	220	
C. Vested Terminated Participants	<u>  2</u>	<u>  2</u>	
D. Total Participants	248	241	
E. Payroll	\$ 1,068,883	\$ 755,201	
<b>Section II.            Asset Information</b>			Page 4
A. Fair Market Value of Assets	\$ 56,707,286	\$ 58,681,440	
<b>Section III.            Contribution Requirements</b>			Page 6
A. Present Value of Employer Future Cost	\$        0	\$        0	
B. Recommended Contribution for Plan Year	\$        0	\$        0	
C. Unfunded Actuarial Liability	\$        0	\$        0	
<b>Section IV.            Present Value of                           Accumulated Benefits</b>			Page 8
A. Present Value of Vested Accumulated Benefits	\$ 54,738,056	\$55,892,658	
B. Present Value of Nonvested Accumulated Benefits	\$0	\$0	
C. Total Present Value of Accumulated Benefits	\$ 54,738,056	\$55,892,658	

**REPORT HIGHLIGHTS**

**For Details  
Please See:**

<b>Section V.</b>	<b>Governmental Accounting Standards Board Statements Nos. 25 and 27 Disclosures</b>	Page 9
A.	GASB No. 25 Schedule of Funding Progress	
B.	GASB Nos. 25 and 27 Schedule of Employer Contributions	
C.	Development of NPO and Annual Pension Cost Pursuant to GASB No. 27	
<b>Section VI.</b>	<b>Determination of Cost of Living Adjustment for July 1, 2014</b>	Page 12
<b>APPENDIX</b>		
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Exhibit 2.	Statement of Actuarial Assumptions	Page 18
Exhibit 3.	Statement of Actuarial Funding Method	Page 20

## COMMENTS

### Background

The plan was frozen to new participants effective July 1, 1980.

Effective March 1, 1987, the South Dakota Department of Labor Job Service, Unemployment Division, and Office of Administrative Services Retirement Plan was separated into two plans. One plan (this plan) covered all active participants and vested terminations as of January 1, 1987, while the other covered all participants retired as of January 1, 1987. Effective April 1, 1987, the retired life plan was terminated. Annuities were purchased to cover the monthly benefit amounts for participants in the retired life plan.

This actuarial valuation report shows the liabilities and assets as of July 1, 2013 for the “active life” plan. This plan covers all participants who had not retired as of January 1, 1987, plus any cost-of-living increases granted after January 1, 1987 to pre-1987 retirees.

The plan was amended, effective February 20, 2013, to grant asset-based annual cost of living adjustments (COLAs), subject to Employee Retirement Board approval, with a maximum annual COLA of 3.5%.

### Funded Status of Plan

As of July 1, 2013, the present value of projected benefits is less than the sum of the actuarial value of assets and the present value of future employee contributions. Thus, no future employer contributions are expected to be required, based on the actuarial assumptions outlined in Exhibit 2 of the Appendix.

Table 8 shows that the plan assets exceeded plan liabilities as of July 1, 2013 by \$1.7 million, based on the actuarial assumptions and methods outlined in Exhibits 2 and 3 of the Appendix (as of July 1, 2012, the plan assets exceeded plan liabilities by \$0.9 million). The reasons for this \$0.8 million increase in overfunded status are:

- An increase of \$2.6 million due to asset returns more favorable than expected (actual 11.29% vs. 6.50% expected);
- A decrease of \$0.8 million due to demographic changes primarily caused by higher than expected 2012 COLA (actual 2.0% vs. 1.4% expected);
- A decrease of \$1.0 million due to the change in COLA assumption (this change is a function of the COLA methodology, which is expected to pay higher COLAs when assets perform favorably).

### Governmental Accounting Standards Board (GASB) Requirements

GASB Statement No. 25, which is effective for financial reporting periods beginning after June 15, 1996, requires governmental defined benefit plans to disclose supplementary information in the form of two schedules, the Schedule of Funding Progress and the Schedule of Employer Contributions. These schedules are provided on pages 10 and 11 of this report.

GASB Statement No. 27, which is effective for financial reporting periods beginning after June 15, 1997, establishes standards of accounting and financial reporting for pension expenditures/expense and related pension liabilities, pension assets, note disclosures, and required supplementary information in the financial reports of state and local governmental employers. The development of the plan’s annual pension expense for the July 1, 2013 to June 30, 2014 plan year and the Net Pension Obligation is also provided on page 11 of this report.

GASB Statement No. 67, which is effective for fiscal years beginning after June 15, 2013, replaces GASB Statement No. 25 and requires governmental defined benefit plans to disclose additional information in both the footnote and required supplementary information sections of their financial statements. GASB Statement No. 67 also requires the measurement of assets and liabilities as of the reporting date (fiscal year end); therefore, a roll-forward of the liability compared to the fiscal year end assets, along with the necessary schedules, will be provided in a separate report after fiscal year end.

GASB Statement No. 68, which is effective for fiscal years beginning after June 15, 2014, will replace GASB Statement No. 27 and will require employers to disclose additional information in both the footnote and required supplementary information sections of their financial statements. In addition, a Net Pension Liability (Asset) will have to be reported on the employer's balance sheet. This information will be provided in a separate report consistent with GASB Statement No. 68.

## I. PARTICIPANT DATA

Employees of the South Dakota Department of Labor Job Services Division, Unemployment Division, and Office of Administrative Services Division who were hired before July 1, 1980 are eligible to participate in the plan. Table 1 displays various data concerning the participant group.

**Table 1**  
**Comparison of Plan Participant Information**

	<u>7/1/2012</u>	<u>7/1/2013</u>
Active participants	27	19
Vested terminated participants	2	2
Retired participants and beneficiaries*	219	220
Data for active participants:		
Total payroll	\$1,068,883	\$755,201
Average salary	\$39,588	\$39,747
Average age	60.17	60.98
Average past service	35.50	36.61
Data for retired participants and beneficiaries in "new" plan:		
Average monthly benefit including COLAs	\$1,730	\$1,804
Average age	70.50	70.79
Data for retired participants and beneficiaries in "old" plan:		
Average monthly COLA benefit only	\$794	\$800
Average age	83.91	84.81

\* A total of 53 (57 as of 7/1/2012) of the retired participants and beneficiaries receive monthly payments from annuities purchased when the retired life plan was terminated in 1987. Only cost-of-living adjustments granted after January 1, 1987 are included as liabilities of this plan.



Table 2 reconciles the number of plan participants as of July 1, 2013 with the number of participants as of the previous valuation date.

**Table 2**  
**Reconciliation of Participants**

	<u>Actives</u>	<u>Vested Terminations</u>	<u>Retirees</u>	<u>Beneficiaries</u>
Participants as of July 1, 2012	27	2	193	26
Vested terminations				
Retired	(8)		8	
Deaths with beneficiary				
Deaths			(7)	
Data corrections	—	—	—	—
Participants as of July 1, 2013	19	2	194	26

Table 3 displays the distribution of active participants by age and service. Table 4 displays the distribution of annual earnings of active participants by age groups.

**Table 3**

**Service Groups by Age Groups**

<b><u>Age Group</u></b>	<b><u>0-24</u></b>	<b><u>25-29</u></b>	<b><u>30+</u></b>	<b><u>Total</u></b>
20-24				0
25-29				0
30-34				0
35-39				0
40-44				0
45-49				0
50-54			1	1
55-59			5	5
60-64			10	10
65 +	<u>0</u>	<u>0</u>	<u>3</u>	<u>3</u>
TOTAL	0	0	19	19

**Table 4**

**Annual Earnings by Age Groups**

<b><u>Age Group</u></b>	<b><u>Number of Participants</u></b>	<b><u>Total Annual Earnings</u></b>	<b><u>Average Annual Earnings</u></b>
50-54	1	\$ 69,265	\$ 69,265
55-59	5	155,576	31,115
60-64	10	419,498	41,950
65 +	<u>3</u>	<u>110,862</u>	<u>36,954</u>
TOTAL	19	\$ 755,201	\$ 39,747

## II. ASSET INFORMATION

Table 5 shows the fair market value of assets as of June 30, 2013, as reported by Principal Life Insurance Company.

Table 5

### Value of Assets as of June 30, 2013

#### Large U.S. Equity

a) Equity Income Account	\$ 3,710,873
b) Large-Cap Value Account	3,685,882
c) Large-Cap S&P 500	3,382,634
d) Large-Cap Growth I Account	7,545,655

#### Small/Mid U.S. Equity

e) Mid-Cap Value III Account	1,185,106
f) Mid-Cap Growth III Account	1,180,745
g) Small-Cap Value II Account	1,207,024
h) Small-Cap Growth I Account	1,219,407

#### International Equity

i) International Emerging Markets Account	1,335,714
j) Overseas Separate Account	3,728,211
k) International I Account	2,232,779

#### Balanced/Asset Allocation

l) Diversified Real Asset	2,879,692
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#### Fixed Income

m) High Yield I Account	2,328,790
n) Core Plus Bond I Account	10,276,964
o) Bond and Mortgage Account	9,698,079
p) Real Estate Account	<u>3,083,885</u>

**Total Value of Assets as of June 30, 2013** **\$ 58,681,440**

Table 6 is a summary of the transactions of the funds from July 1, 2012 through June 30, 2013.

**Table 6**  
**Summary of Transactions for the Year Ended June 30, 2013**

(a)	Total Value of Assets as of July 1, 2012		\$ 56,707,286
(b)	Income		
	(i)	Employer contributions	\$ 4,333
	(ii)	Employee contributions and other additions	11,199
	(iii)	Investment income	<u>6,153,092</u>
	(iv)	Total income	\$ 6,168,624
(c)	Disbursements		
	(i)	Payments	\$ 4,050,942
	(ii)	Expenses	<u>143,528</u>
	(iii)	Total disbursements	\$ 4,194,470
(d)	Total Value of Assets as of June 30, 2013		\$ 58,681,440

The rate of return (loss) on plan assets from July 1, 2012 through June 30, 2013 as calculated by Principal Financial Group was approximately 11.29%.

### III. CONTRIBUTION REQUIREMENTS

The present value of projected benefits represents the expected cost of all benefits to be paid from the plan, based on the actuarial assumptions used in the valuation. As of July 1, 2013, the present value of projected benefits is less than the sum of the actuarial value of assets and the present value of future employee contributions. Thus, no future employer contributions are expected to be required, based on the actuarial assumptions outlined in Exhibit 2 of the Appendix.

Table 7 shows the determination of the future employer obligation at the current valuation date.

Table 7

Plan Costs as of July 1, 2013

(a)	Present Value of Projected Benefits	
	(i) Active participants	\$ 8,012,831
	(ii) Retirees and beneficiaries	49,068,440
	(iii) Vested terminations	<u>177,953</u>
	Total	\$ 57,259,224
(b)	Actuarial Value of Assets	58,681,440
(c)	Present Value of Total Future Cost: (a) - (b), not less than \$0	0
(d)	Present Value of Future Employee Contributions	2,309
(e)	Present Value of Employer Future Cost: (c) - (d), not less than \$0	\$ 0

The recommended employer contribution is the employer normal cost, plus a 25-year amortization payment toward the unfunded actuarial liability if an unfunded liability is expected as of the end of the plan year. Table 8 develops this contribution for the July 1, 2013 to June 30, 2014 plan year. The normal cost and unfunded actuarial liability are determined based on the entry age actuarial cost method, which provides for level annual costs as a percentage of payroll. This method is described in detail in Exhibit 3 of the Appendix.

**Table 8**  
**Recommended Contribution**  
**For Plan Year Ending June 30, 2014**

I.	Recommended employer contribution, before test of unfunded liability		
	(a) Total normal cost	\$	56,994
	(b) Expected employee contributions		<u>2,309</u>
	(c) Employer normal cost (a) – (b)	\$	54,685
	(d) 25-year amortization payment toward unfunded actuarial liability		N/A*
	(e) Interest to June 30, 2014 on (c) + (d)		<u>3,555</u>
	(f) Recommended employer contribution, before test of unfunded liability: (c) + (d) + (e), but not less than \$0	\$	58,240
II.	Test of unfunded liability		
	(g) Unfunded actuarial liability		
	(i) Actuarial liability as of July 1, 2013	\$	57,029,419
	(ii) Actuarial value of assets as of July 1, 2013		<u>58,681,440</u>
	(iii) Unfunded actuarial liability: (i) - (ii)	\$	(1,652,021)
	(h) Interest to June 30, 2014 on (c) + (g)		<u>(103,827)</u>
	(i) Expected unfunded liability as of June 30, 2014: (c) + (g) + (h), but not less than \$0	\$	0
III.	Recommended employer contribution: lesser of (f) and (i)	\$	0

\*Not applicable since there is no unfunded actuarial liability.

#### **IV. PRESENT VALUE OF ACCUMULATED BENEFITS**

The actuarially computed value of accumulated benefits as of July 1, 2013 is \$55,892,658. All participants of the plan are fully vested. When the fair market value of assets of \$58,681,440 is deducted, the unfunded vested liability is \$0. Table 9 shows the present value of vested and accumulated benefits as of July 1, 2013.

**Table 9**

**Present Value of Accumulated Benefits**  
**as of July 1, 2013**

	<b><u>Number of Vested Participants</u></b>	<b><u>Actuarial Present Value</u></b>
Retirees and Beneficiaries*	220	\$ 49,068,440
Terminated Participants with Vested Benefits	2	177,953
Active Participants	<u>19</u>	<u>6,646,265</u>
Total Present Value of Vested Accumulated Benefits	241	\$ 55,892,658
Present Value of Nonvested Accumulated Benefits		<u>0</u>
Total Present Value of Accumulated Benefits		<u>\$ 55,892,658</u>

The present values in Table 9 were computed using the actuarial assumptions set forth in Exhibit 2, except that no future salary increases are assumed.

\* A total of 53 of the retired participants receive monthly benefits from annuities purchased when the retired life plan was terminated in 1987. Only cost-of-living increases granted after January 1, 1987 are included for these participants as liabilities of this plan.

**V. GOVERNMENTAL ACCOUNTING STANDARDS BOARD**  
**STATEMENTS NOS. 25 and 27 DISCLOSURES**

The Governmental Accounting Standards Board (GASB) has issued Statement No. 25, *Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans*. This Statement superseded GASB Statement No. 5, *Disclosure of Pension Information by Public Employee Retirement Systems and Local Governmental Employers*. GASB No. 25 is effective for financial reporting periods beginning after June 15, 1996, and GASB No. 27, *Accounting for Pensions by State and Local Governmental Employers*, is effective for periods beginning after June 15, 1997. GASB No. 25 requirements include disclosure of supplementary information in the form of two schedules, the Schedule of Funding Progress and the Schedule of Employer Contributions.

GASB No. 27 establishes certain boundaries, or parameters, for determining whether the amounts measured in accordance with the plan's funding policy are acceptable for financial reporting or whether different measures are required.

The plan's funding policy is to contribute the recommended employer contribution defined as the employer's normal cost plus a 25-year amortization of the unfunded accrued liability if an unfunded liability is expected as of the end of the plan year. We believe the plan's funding policy is determined within the parameters set forth by the Statement.

The GASB No. 27 annual pension expense is defined as the Annual Required Contribution (ARC) plus one year's interest on the Net Pension Obligation (NPO) offset by an adjustment to the ARC. The ARC, as noted above, may be defined as the recommended annual employer contribution as developed in Table 8 of this report. The NPO is defined as the cumulative difference, including interest, for the years prior to the transition date (July 1, 1997) between (a) the employer's required contributions in accordance with the plan's actuarially determined funding requirements and (b) the contributions made by the employer in relation to the required contributions. The GASB No. 27 annual pension expense for this plan is \$(11,884) for the July 1, 2013 to June 30, 2014 plan year. Table 12 displays the development of the NPO and the annual pension cost assuming that there will be no employer contributions.



**Table 10**  
**GASB No. 25 Schedule of Funding Progress**

Actuarial Valuation Date	Actuarial Value of Assets (a)	Entry Age Normal Actuarial Accrued Liability (AAL) (b)	Unfunded Actuarial Accrued Liability (UAAL) (b - a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b - a)/c)
July 1, 1993	\$ 33,542,349	\$ 31,304,725	\$ (2,237,624)	107.1	\$ 4,096,931	(54.6)
July 1, 1994	34,812,137	33,827,786	(984,351)	102.9	4,123,470	(23.9)
July 1, 1995	38,396,853	35,960,087	(2,436,766)	106.8	3,989,811	(61.1)
July 1, 1996	42,842,926	37,817,765	(5,025,161)	113.3	3,482,709	(144.3)
July 1, 1997	48,934,863	39,746,449	(9,188,414)	123.1	3,513,334	(261.5)
July 1, 1998	54,376,531	41,296,646	(13,079,885)	131.7	3,386,017	(386.3)
July 1, 1999	57,210,946	42,559,280	(14,651,666)	134.4	3,264,009	(448.9)
July 1, 2000	59,369,863	44,456,018	(14,913,845)	133.5	3,035,791	(491.3)
July 1, 2001	56,174,491	45,540,493	(10,633,998)	123.4	2,948,124	(360.7)
July 1, 2002	57,913,590	46,442,075	(11,471,515)	124.7	2,956,917	(388.0)
July 1, 2003	56,632,993	47,385,514	(9,247,479)	119.5	2,758,316	(335.3)
July 1, 2004	62,476,783	48,596,467	(13,880,316)	128.6	2,717,190	(510.8)
July 1, 2005	66,064,845	49,884,627	(16,180,218)	132.4	2,697,784	(599.8)
July 1, 2006	69,258,950	52,533,956	(16,724,994)	131.8	2,253,767	(742.1)
July 1, 2007	76,356,575	53,395,132	(22,961,443)	143.0	2,010,245	(1,142.2)
July 1, 2008	68,208,947	54,703,227	(13,505,720)	124.7	1,695,507	(796.6)
July 1, 2009	48,578,014	54,143,558	5,565,544	89.7	1,631,174	341.2
July 1, 2010	51,549,554	54,929,565	3,380,011	93.8	1,407,433	240.2
July 1, 2011	59,870,226	55,470,085	(4,400,141)	107.9	1,254,073	(350.9)
July 1, 2012	56,707,286	55,830,930	(876,356)	101.6	1,068,883	(82.0)
July 1, 2013	58,681,440	57,029,419	(1,652,021)	102.9	755,201	(218.8)

**Table 11**  
**GASB Nos. 25 and 27 Schedule of Employer Contributions**

<u>Year Ended</u>	<u>Annual Required Contribution</u>	<u>Employer Contribution</u>	<u>Percentage Contributed</u>
June 30, 1989	\$ 0	\$ 0	100.0%
June 30, 1990	0	0	100.0
June 30, 1991	0	0	100.0
June 30, 1992	0	0	100.0
June 30, 1993	0	0	100.0
June 30, 1994	0	0	100.0
June 30, 1995	0	0	100.0
June 30, 1996	0	0	100.0
June 30, 1997	0	0	100.0
June 30, 1998	0	0	100.0
June 30, 1999	0	0	100.0
June 30, 2000	0	0	100.0
June 30, 2001	0	0	100.0
June 30, 2002	0	0	100.0
June 30, 2003	0	0	100.0
June 30, 2004	0	0	100.0
June 30, 2005	0	0	100.0
June 30, 2006	0	0	100.0
June 30, 2007	0	0	100.0
June 30, 2008	0	0	100.0
June 30, 2009	0	0	100.0
June 30, 2010	503,139	0	0.0
June 30, 2011	305,337	0	0.0
June 30, 2012	0	0	100.0
June 30, 2013	0	0	100.0
June 30, 2014	0	4,333	N/A

**Table 12**  
**Development of NPO and Annual Pension Cost Pursuant to GASB No. 27**

<u>Year Ended</u>	(a) <u>Annual Required Contribution (ARC)</u>	(b) <u>Employer Contribution</u>	(c) <u>Interest on NPO</u>	(d) <u>ARC Adjustment LY (h)/(e)</u>	(e) <u>Amortization Factor</u>	(f) <u>Annual Pension Cost (a)+(c)-(d)</u>	(g) <u>Change in NPO (f)-(b)</u>	(h) <u>NPO Balance LY+(g)</u>
June 30, 2009								\$ 0
June 30, 2010	\$ 503,139	\$ 0	\$ 0	\$ 0	11.147	\$ 503,139	\$ 503,139	503,139
June 30, 2011	305,337	0	37,735	45,137	11.147	297,935	297,935	801,074
June 30, 2012	0	0	60,081	71,865	11.147	(11,784)	(11,784)	789,290
June 30, 2013	0	0	51,304	63,627	12.405	(12,323)	(12,323)	776,967
June 30, 2014	0	4,333	50,503	62,387	12.454	(11,884)	(16,217)	760,750

## **VI. DETERMINATION OF COST OF LIVING ADJUSTMENT FOR JULY 1, 2014**

The plan was amended, effective February 20, 2013, to grant asset-based annual cost of living adjustments (COLAs), subject to Employee Retirement Board approval, with a maximum annual COLA of 3.5%.

Table 13 provides the Present Value of Future Benefits (PVFB) using the Settlement-Based Discount Rate (5.0%) and projected to April 15, 2014 under all possible COLAs from 0.1% to 3.5%. If the Employee Retirement Board approves, the COLA to be paid on July 1, 2014 will be the largest rate for which the average of the Plan's asset value as of the close of market for each day of the month of April 2014 exceeds the PVFB shown.

**Table 13**

**Present Value of Future Benefits for  
Related Cost of Living Adjustments  
as of April 15, 2014**

<b><u>COLA</u></b>	<b><u>PVFB</u></b>	<b><u>COLA</u></b>	<b><u>PVFB</u></b>
0.1%	48,436,000	1.9%	57,879,000
0.2%	48,899,000	2.0%	58,480,000
0.3%	49,368,000	2.1%	59,091,000
0.4%	49,844,000	2.2%	59,712,000
0.5%	50,327,000	2.3%	60,342,000
0.6%	50,817,000	2.4%	60,981,000
0.7%	51,314,000	2.5%	61,631,000
0.8%	51,818,000	2.6%	62,290,000
0.9%	52,330,000	2.7%	62,960,000
1.0%	52,848,000	2.8%	63,641,000
1.1%	53,375,000	2.9%	64,332,000
1.2%	53,909,000	3.0%	65,034,000
1.3%	54,451,000	3.1%	65,747,000
1.4%	55,002,000	3.2%	66,472,000
1.5%	55,560,000	3.3%	67,208,000
1.6%	56,127,000	3.4%	67,956,000
1.7%	56,702,000	3.5%	68,716,000
1.8%	57,286,000		

## **APPENDIX**

**Exhibit 1**

**SUMMARY OF THE PRINCIPAL PROVISIONS OF THE PLAN**

**1. Effective Date**

March 1, 1987. Last amended effective February 20, 2013.

**2. Covered Employees**

Full-time employees of the South Dakota Department of Labor, Job Service, Unemployment Insurance Division, and Office of Administrative Services hired before July 1, 1980 who had not retired before January 1, 1987. Cost of living increases granted after January 1, 1987 for retirees as of January 1, 1987 are also paid from this plan.

**3. Credited Service**

The number of years and months of service before August 1, 1961, plus the number of years and months of service after August 1, 1961.

**4. Average Monthly Compensation**

Average of monthly compensation for the five consecutive years which produce the highest average.

**5. Participant Contributions**

No required contributions shall be made by participants on or after January 1, 1990. These contributions are considered picked-up by the employer under IRC section 414(h)(2).

**6. Normal Retirement Benefit**

Eligibility:           Earliest of the following:

- a) attained age 65, or
- b) attained age 62 and completed 10 years of Credited Service, or
- c) attained age 60 and completed 20 years of Credited Service, or
- d) attained age 55 and completed 30 years of Credited Service.

Form:                   Monthly annuity guaranteed for 10 years and life thereafter; optional forms may be elected in advance of retirement.

Benefit:                2.0% of the five-year Average Monthly Compensation times years of Credited Service.

**Exhibit 1 (continued)**

**7. Accrued Benefit**

The accrued benefit at any date is the Normal Retirement Benefit earned through that date.

**8. Early Retirement Benefit**

Eligibility: Within 10-year period before normal retirement date.

Form: Same as Normal Retirement Benefit.

Benefit: Accrued Benefit on early retirement date reduced by 1/6 of 1% corresponding to the number of months that the early retirement date precedes the normal retirement date.

**9. Late Retirement Benefit**

Eligibility: Any time after normal retirement date.

Form: Same as Normal Retirement Benefit.

Benefit: Accrued benefit as of the late retirement date.

**10. Termination Benefit**

Eligibility: Less than five years of service.

Form: Lump sum.

Benefit: Return of employee contributions with interest.

Eligibility: Five or more years of service.

Form: Same as Normal Retirement Benefit with commencement deferred until normal retirement date.

Benefit: Equal to the sum of:

- a) The amount of retirement annuity which could be provided at normal retirement date by the participant's contribution accumulation, and
- b) The excess, if any, of the Accrued Benefit as of the date of termination over a) above.

**Exhibit 1 (continued)**

**11. Disability Benefit**

- Form: Same as Normal Retirement Benefit with commencement deferred until normal retirement date.
- Benefit: Accrued Benefit assuming the participant continued to accrue Credited Service up to their normal retirement date, using monthly compensation as of date of disablement to calculate benefit.

**12. Death Benefit**

- Form: Single-sum payment in addition to Spouse and/or Dependent Child Death Benefit.
- Benefit: Participant's Required Contribution Account on the date he died shall be payable to the Participant's Beneficiary.

**13. Spouse Death Benefit**

- Eligibility: Must have been married at least one year.
- Form: Monthly annuity payable until the earlier of the death of the spouse or the remarriage of the spouse, if before age 60.
- Benefit: For participants whose latest date of employment occurred before age 47, the greater of:
- a) 55% of the Accrued Benefit (using the Average Monthly Compensation for the five consecutive years which produces the highest average) on the date of death, or
  - b) 22% of Average Monthly Compensation on date of death.
- For participants whose latest date of employment occurred after age 47:
- 55% of the amount which would have been paid had the participant survived and remained employed to age 60, assuming his Average Monthly Compensation did not change.

**14. Dependent Child Death Benefit**

- Eligibility: Participant has at least one dependent child that has not attained age 19 (age 24 for a child who is attending school on a full-time basis).
- Form: If dependent child of participant who did not have a spouse on the date of death, temporary monthly annuity until the youngest dependent child attains age 22. If dependent child of participant who did have a spouse on the date of death, temporary monthly annuity until the youngest dependent child is no longer considered a dependent child.

**Exhibit 1 (continued)**

Benefit: For dependent children of a participant who has a spouse on the date of death, the least of:

- a) 60% of Average Monthly Compensation on date of death divided by number of dependent children, or
- b) \$75, or
- c) \$225 divided by number of children.

For dependent children of a participant who does not have a spouse on the date of death, the least of:

- a) 75% of Average Monthly Compensation on date of death divided by number of dependent children, or
- b) \$90, or
- c) \$270 divided by the number of dependent children.

**15. Additional Death Benefit**

Eligibility: Participant with 10 years of Credited Service as of July 1, 1976, no spouse or dependent children.

Form: Monthly annuity to beneficiary payable for 10 years.

Benefit: Accrued Benefit on June 30, 1976, using Average Monthly Compensation on July 1, 1976.

**16. Cost of Living**

Effective February 20, 2013, the plan was amended to grant cost of living adjustments to retirees and beneficiaries each July 1, subject to Employee Retirement Board approval, in the amount of the lesser of a or b rounded down to the nearest 0.1%, but not less than 0%:

- a) 3.5%
- b) The adjustment factor determined such that the following two items are equal:
  - i) The average of the Plan's asset value as of the close of market for each day of the month of April immediately preceding the July 1 adjustment date.
  - ii) The Plan's present value of future benefits as of the April 15 immediately preceding the Adjustment Date, which is determined by adjusting the present value of future benefits from the Plan's most recent actuarial valuation report to the April 15 immediately preceding the Adjustment Date for interest and expected benefit payments, and by using the Settlement-Based Discount Rate from the most recent actuarial valuation report and a future cost of living adjustment assumption, which is determined in order to equate the liabilities to the assets.



## Exhibit 2

### STATEMENT OF ACTUARIAL ASSUMPTIONS

<b>Investment Return:</b>	6.5% until July 1, 2027 and 5% thereafter.
<b>Settlement-Based Discount Rate:</b>	5.0%.
<b>Mortality:</b>	RP-2000 Combined Healthy Mortality Table for Males and Females with generational improvements using projection Scale AA.
<b>Termination:</b>	Table 7 from the Actuary's Pension Handbook. Sample rates are as follows:

<u>Age</u>	<u>Percentage of Participants Expected to Terminate in One Year</u>
25	9.67%
30	9.30
35	8.71
40	7.75
45	6.35
50	4.23
55	1.55
60	0.15

<b>Retirement:</b>	100% on the expected retirement date as provided by SDDOL for each active employee and 2.5% in each year prior to the expected retirement date. The expected retirement ages range from age 59 to age 67, with an average expected retirement age of 65. The previous retirement assumption produced an average expected retirement age of 63.
<b>Salary Scale:</b>	3.5% per annum.
<b>Disability:</b>	None.
<b>Expenses:</b>	None – investment return assumption is net of expenses.
<b>Spouse Death Benefits:</b>	Males are assumed to be three years older than their female spouses.
<b>Dependent Death Benefits:</b>	Dependent status for those children currently receiving benefits is assumed to cease at the later of age 22 and 1 year after the valuation date. Ten percent of participants are assumed to have dependent children. All participants with dependent children are assumed to be survived by a spouse. Dependent status period for children is assumed to be three years from date of participant death.

**Exhibit 2 (continued)**

**Cost of Living:** Assumed adjustments are as follows:

<b><u>July 1st</u></b>	<b><u>Expected COLA in each year</u></b>
2014	1.9%
2015	2.0
2016	2.2
2017	2.3
2018	2.5
2019	2.7
2020	2.8
2021	3.0
2022	3.2
2023	3.3
2024+	3.5

**Assets:** Market value.

**Return on Employee  
Contributions:** 4.0% per annum.

**Data Adjustments:** Principal Financial Group provides census data annually as of July 1 before inclusion of the current year's COLA, if applicable. In June 2013, Principal Financial Group communicated that benefits were increased 2.0% effective July 1, 2013. We applied this COLA adjustment to the appropriate benefit payment amounts provided to us.

### **Exhibit 3**

#### **STATEMENT OF ACTUARIAL FUNDING METHOD**

The actuarial cost method used in this valuation is the entry age normal method.

This method is one of the family of projected benefit cost methods. An estimate of the projected monthly benefit payable at retirement is required initially to determine costs and liabilities under this method.

The normal cost contribution is determined as a level percent of each participant's pay from entry date to retirement date, so the accumulated contributions at retirement will equal the liability for the projected benefit. The total normal cost is equal to the sum of the individual participant costs.

The present value of future benefits is equal to the value of the projected benefit payable at retirement, discounted back to the participant's current age. Discounts include such items as interest and mortality. The present value of future normal cost contributions is equal to the discounted value of the normal costs payable from the member's current age to retirement age.

The difference between the present value of future benefits and the present value of future normal cost contributions represents the actuarial liability at the participant's current age.

When assets and the present value of future employee contributions are subtracted from the actuarial liability, the remainder represents the unfunded actuarial liability.

The annual contribution is determined by adding the employer normal cost for the plan year to an amortization payment toward the unfunded actuarial liability. If assets are projected to exceed the actuarial liability as of the end of the plan year for which the valuation is performed, no employer contribution is recommended.