# NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS 2009

### State Employees' Retirement System Cash Balance Benefit Fund

Actuarial Valuation Results as of January 1, 2009 for State Fiscal Year Ending June 30, 2011

June 2009



1200 Seventeenth Street Suite 1200 Denver, Colorado 80202

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June 8, 2009

Public Employees Retirement Board Nebraska Public Employees Retirement Systems Post Office Box 94816 Lincoln, NE 68509

Certification of Actuarial Valuation State Employees' Retirement System Cash Balance Benefit Fund

Ladies and Gentlemen:

This report summarizes the results of the actuarial valuation of the State Employees' Retirement System Cash Balance Benefit Fund as of January 1, 2009, performed by Buck Consultants.

The actuarial valuation is based on member data provided to us by the Ameritas Life Insurance Corporation, recordkeeper for the plan, and unaudited financial information provided by Nebraska Retirement Systems as summarized in this report. The benefits considered are those delineated in Nebraska State Statutes, effective as amended January 1, 2009.

All costs, liabilities and other factors under the fund were determined in accordance with generally accepted actuarial principles and procedures, using actuarial cost methods which we believe are reasonable, and that follow the Nebraska State Statutes. This report fully and fairly discloses the actuarial position of the fund.

In our opinion, the actuarial assumptions used are reasonable, taking into account expected long-term experience of the fund, and represent our best estimate of anticipated future experience. A summary of the actuarial assumptions used in this actuarial valuation are shown in Exhibit 10.

The contributions paid by the participating Cash Balance benefit members and the 156% matching State contributions defined by statute are more than sufficient to meet the annual actuarially required contribution which is equal to the sum of the annual normal cost and the annual payment necessary to amortize the unfunded liabilities over 25 years. The State is required to make any additional contribution necessary to meet the statutory funding requirement. For the 2010-2011 fiscal year, this additional amount is \$0.

We are available to answer any questions on the material contained in this report, or to provide explanations to further details as may be appropriate.

Respectfully submitted,

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### SUMMARY OF ACTUARIAL REPORT FOR CONTRIBUTION REQUIREMENTS AND FUNDED STATUS FOR THE 2009 PLAN YEAR

The main purposes of this report are:

- 1. To determine the level of additional State contributions for the fiscal year ending June 30, 2011 sufficient to meet the funding policy defined under Nebraska State statutes;
- 2. To review the current funded status of the Cash Balance benefit; and
- 3. To quantify the contribution rate available for benefit improvements, if any.

The 2009 actuarial valuation is based upon the plan provisions as of January 1, 2009, as described in Exhibit 8. The actuarial methods and assumptions are described in Exhibits 9 and 10.

Highlights from the current valuation:

- 1. No additional State contribution is required for the 2010-2011 fiscal year to meet the actuarially required contribution. Expected member contributions and State contributions exceed the total funding requirement. The Reserve as of January 1, 2009, is \$30,151,477.
- 2. For the 2009 plan year, the actuarially required contribution is under 90% of the actual contributions. Therefore, a funding excess exists to provide benefit improvements during the 2009 plan year of 0.29% of payroll.
- 3. The funded status of the system is measured by the ratio of the system assets over the Pension Benefit Obligation (PBO). The PBO is calculated using the Projected Unit Credit Method, which determines the benefit by using accumulated cash balance account values at the valuation date and projecting salary, contribution credits, and interest credits to assumed termination or retirement, and prorating the projected balances by service earned at the valuation date to service expected at termination or retirement. As of January 1, 2009, the funded percentage on Actuarial Value of Assets is 99.0%.
- 4. Significant investment losses were experienced during 2008, with an investment loss of (27.4%) on market value. Investment gains in excess of the 7.75% assumed rate will be required in the short term to avoid additional State contributions in the near future.



### **EXECUTIVE SUMMARY**

#### **Basic Actuarial Valuation Results**

The 2009 actuarial valuation results are based upon the plan provisions as of January 1, 2009, as described in Exhibit 8. The actuarial methods and assumptions are described in detail in Exhibits 9 and 10, respectively.

#### 1. State Contribution

The State's funding policy is to match the contributions paid by members at a rate of 156% of the member contribution, and make additional payments if necessary, to meet the actuarially required contribution. The actuarially required contribution is equal to the normal cost plus an amortization payment for unfunded liabilities. Unfunded liabilities created due to experience gains or losses, plan changes or assumption changes are amortized over 25 years.

The total expected State contribution for the 2009 plan year is \$32,461,469. Member contributions and matching State contributions are expected to exceed the total actuarially required funding.

The actuarial accrued liability exceeds the assets as of the valuation date. As a result, the unfunded actuarial accrued liability is \$20,710,304. No additional payment is required for the 2009 plan year.

History of Expected State Contributions						
Plan Year	State Contribution	Additional Contributions	Total			
2004	\$ 12,112,627	\$ 0	\$ 12,112,627			
2005	\$ 13,618,155	\$ 0	\$ 13,618,155			
2006	\$ 16,912,304	\$ 0	\$ 16,912,304			
2007	\$ 24,266,326	\$ 0	\$ 24,266,326			
2008	\$ 28,814,683	\$ 0	\$ 28,814,683			
2009	\$ 32,461,469	\$ 0	\$ 32,461,469			

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### **EXECUTIVE SUMMARY**

#### 2. Asset Values

The total assets of the system as of the valuation date at both market value and actuarial value is as follows:

	January 1, 2008* January 1, 2009		Annual Rate of Return	
(a) Market value	\$	624,015,867	\$ 469,855,291	(27.4%)
(b) Actuarial value, an adjusted value intended to reduce the effect of market fluctuations (See Exhibit 9)	\$	606,552,428	\$ 637,539,094	1.8%

<sup>\*</sup> Includes receivable of \$154,053,259 for transfers from the defined contribution (DC) benefit fund.

### 3. Actuarial Liability/(Reserve)

The actuarial liability of the system is the excess of the total benefit obligation (present value of future benefits) over the projected financial resources (sum of (i) the actuarial value of assets, and (ii) the present value of future member and matching State contributions). If the projected financial resources exceed the total benefit obligation, the system has a Reserve. The actuarial position of the system as of the valuation date is as follows:

		January 1, 2008	January 1, 2009
(a)	Present value of future benefits	\$ 899,522,134	\$ 1,012,257,367
(b)	Actuarial value of assets	606,552,428	637,539,094
(c)	Present value of future member contributions	140,286,053	158,152,246
(d)	Present value of matching State contributions	218,846,243	246,717,504
(e)	Actuarial Liability/(Reserve) $[(a) - (b) - (c) - (d)]$	\$ (66,162,590)	\$ (30,151,477)

### **EXECUTIVE SUMMARY**

### 4. Pension Benefit Obligation (PBO)

The Pension Benefit Obligation represents a standardized disclosure measure of the present value of pension benefits payable in the future, which incorporates the effects of projected salary increases, based on service earned at the valuation date. The measure is intended to provide information regarding the Cash Balance Benefit's funded status on an ongoing-concern basis, progress made in accumulating sufficient assets to pay benefits when due, and comparability to other plans.

Funded Status	January 1, 2008	January 1, 2009
(a) Pension Benefit Obligation i) retirees, disabled members and beneficiaries receiving benefits and deferred vested members		
not yet receiving benefits ii) active members	\$ 68,299,926 498,642,540	\$ 86,481,687 557,451,317
iii) total pension benefit obligation	\$ 566,942,466	\$ 643,933,004
(b) Assets available for benefits (actuarial value)	606,552,428	<u>637,539,094</u>
(c) Unfunded Pension Benefit Obligation	\$ (39,609,962)	\$ 6,393,910
(d) Funded percentage on actuarial value of assets [(b) ÷ (a)(iii)]	107.0%	99.0%

### **EXECUTIVE SUMMARY**

### 5. Accumulated Benefit Obligation

The accumulated benefit obligation represents another measure of the value of the benefits provided under the plan, based on the account balances and retiree benefits as of the valuation date. The measure is intended to provide information regarding the Cash Balance Benefits funded status on an immediate basis, progress on securing the current benefit obligation and comparability to similar individual account plans.

Funded Status		January 1, 2008		January 1, 2009
(a) Cash Balance Accounts				
i) Actives	\$	520,961,431	\$	571,537,972
ii) Inactives	_	<u>35,548,836</u>	_	41,991,913
iii) Total	\$	556,510,267	\$	613,529,885
(b) Retirees, disabilities, and		22.751.000		44 400 774
beneficiaries		<u>32,751,090</u>		<u>44,489,774</u>
(c) Total accumulated benefit obligation	\$	589,261,357	\$	658,019,659
(d) Market Value of Assets		624,015,867		<u>469,855,291</u>
(e) Deficit/(Reserve) [(c) – (d)]	\$	(34,754,510)	\$	188,164,368
(f) Funded percentage on Market Value of Assets [(d) ÷ (c)]		105.9%		71.4%

#### 6. Benefit Accrual Cost

The cost of benefits accruing over an active member's working career can be expressed as a level percentage of compensation. This cost represents the true cost of accruing benefits since it is not adjusted for any overfunding or underfunding which may exist on the valuation date. It is determined using the Entry Age Actuarial Cost Method and is also called the Normal Cost. The level benefit accrual cost determined at the valuation date is as follows:

		January 1, 2008	January 1, 2009
(a)	Benefit accrual cost amount	\$ 39,887,065	\$ 44,858,348
(b)	Annual compensation before assumed retirement age	\$ 380,342,989	\$ 427,598,469
(c)	Benefit accrual cost rate $[(a) \div (b)]$	10.49%	10.49%

### **EXECUTIVE SUMMARY**

#### 7. Forecast of Disbursements

A forecast of the annual benefit disbursements expected over the next ten years is presented in Exhibit 7. This forecast is based on the same actuarial assumptions with respect to salary increases and decrement rates used to determine the funding requirements. The forecast should be a useful guide in discussing the cash-flow needs of the system with investment managers and in projecting the future financing needs of the system.

#### 8. Actuarial Methods and Assumptions

The required contribution developed in this report is an estimate of the amount necessary to provide ongoing benefits to plan members assuming the system is funded in a systematic manner. These estimates are based upon the actuarial method defined under State Statutes to allocate the total cost of the Cash Balance benefit to various years and actuarial assumptions regarding the return on investments, salary rates, employee termination rates, mortality rates and other risk factors. The actuarial method used to determine the actuarial contribution requirement is the Entry Age Actuarial Cost Method.

The actuarial assumptions represent the expected long-term experience of the system on an explicit basis for each risk area considered. The experience is reviewed periodically. Where necessary, changes are recommended by the actuary and adopted by the Public Employees Retirement Board.

A summary of the actuarial methods and assumptions used in the current valuation is presented in Exhibits 9 and 10, respectively.



### **SYSTEM ASSETS**

A.	Summary of Market Value of Assets	Market Value as of December 31, 2007		-	ket Value as of mber 31, 2008
1.	Cash and Equivalents	\$	53,419	\$	59,793
2.	Investments		477,197,115		482,872,478
3.	Receivables and Prepaids		12,993,198		54,632,168
4.	Receivable Transfer from Defined Contribution Benefit Fund		154,053,259		0
5.	Accounts Payable		(20,281,124)		(67,709,148)
6.	Net Assets Available for Pension Benefits Considered [1 + 2 + 3 + 4 + 5]	\$	624,015,867	\$	469,855,291

В.	Development of Actuarial Value of Assets	Amount
1.	Actuarial Value of Assets as of January 1, 2008	\$ 606,552,428
2.	Unrecognized return as of January 1, 2008	\$ 17,463,439
3.	Contributions (a) Employee (b) Employer and other (c) Total	\$ 18,719,635 <u>29,208,772</u> 47,928,407
4.	Transfers In	\$ 3,768,050
5.	Disbursements (a) Distributions (b) Benefit Payments (c) Total	\$ 27,296,756 4,591,027 31,887,783
6.	Expected Return at 7.75% on:  (a) Item 1  (b) Item 2  (c) Item 3(c)  (d) Item 4  (e) Item 5(c)  (f) Total [(a) + (b) + (c) + (d) + (e)]	\$ 47,007,813 1,353,417 1,822,572 143,288 (1,212,596) 49,114,494
7.	Actual Return on Market Value for 2008 Plan Year, net of expenses*	\$ (173,969,250)
8.	Return to be Spread for 2008 Plan Year [7 - 6(f)]	\$ (223,083,744)

 $<sup>^{*}</sup>$  Includes adjustment on the Market Value of Assets of \$226,707.

### **SYSTEM ASSETS**

В.	Development of Actuarial Value of Assets (continued)	Amount		
9.	Total Market Value of Assets as of January 1, 2009	\$	469,855,291	
10	Determine to the Course of			

#### 10. Return to be Spread

Plan Year	Return to be Spread	Unrecognized Percent	Unre	ecognized Return
2008	\$ (223,083,744)	80%	\$	(178,466,995)
2007	1,147,260	60%		688,356
2006	27,238,273	40%		10,895,309
2005	(4,002,365)	20%		(800,473)
Total				(167,683,803)

11. Total Actuarial Value of Assets at January 1, 2009 [9 – 10] \$ 637,539,094

12. Ratio of Market Value to Actuarial Value [9 ÷ 11]

73.7%

### **SYSTEM ASSETS**

C.	Change in Asset Values During 2008	Actuarial Value Market Value
1.	Asset value as of January 1, 2008	
	(a) Reported last year	\$ 606,552,428 \$ 624,015,867
	(b) Adjustment	n/a226,707
	(c) Reported this year [(a) + (b)]	\$ 606,552,428 \$ 624,242,574
2.	Contributions for 2008	
	(a) Employee contributions paid	\$ 18,719,635 \$ 18,719,635
	(b) Employer contributions collected	<u>29,208,772</u> <u>29,208,772</u>
	(c) Contributions for 2008 [(a) + (b)]	\$ 47,928,407 \$ 47,928,407
3.	Transfers In	\$ 3,768,050 \$ 3,768,050
4.	Disbursements for 2008	
	(a) Benefit payments	\$ 31,887,783 \$ 31,887,783
	(b) Expenses and fees	<u>989,568</u> <u>989,568</u>
	(c) Disbursements for 2008 [(a) + (b)]	\$ 32,877,351 \$ 32,877,351
5.	Investment return for 2008	\$ 12,167,560 \$ (173,206,389)
6.	Asset value as of January 1, 2009 $[1(c) + 2(c) + 3 - 4(c) + 5]$	\$ 637,539,094 \$ 469,855,291
7.	Approximate rate of investment return, net of expenses	1.81% (27.44%)

### **ACTUARIAL CONTRIBUTION REQUIREMENT**

A.	Development of Actuarially Required Funding Rate	January 1, 2009
1.	Actuarial present value of benefits	
	<ul><li>(a) Active members</li><li>(b) Inactive members</li><li>(c) Retired members, disabilities and beneficiaries</li><li>(d) Total</li></ul>	\$ 925,775,680 41,991,913 44,489,774 \$ 1,012,257,367
2.	Present Value of Future Normal Costs	<u>354,007,969</u>
3.	Total Actuarial Accrued Liability [1(d) - 2]	\$ 658,249,398
4.	Actuarial Value of Assets	637,539,094
5.	Unfunded Actuarial Accrued Liability [3 - 4]	\$ 20,710,304
6.	25-Year Amortization of the Unfunded Actuarial Accrued Liability (a) Amount (b) Amount as % of Pay	\$ 1,829,291 0.42%
7.	Normal Cost (a) Amount (b) Amount as % of Pay	\$ 44,858,348 10.35%
8.	Total Actuarially Required Contribution  (a) Amount [6(a) + 7(a)]  (b) Amount as % of Pay	\$ 46,687,639 10.77%

### **ACTUARIAL CONTRIBUTION REQUIREMENT**

В.	Development of Additional State Contribution for 2010/2011	Annual Amount as a % of Pay
1.	Actuarially Required Contribution (a) Total Contribution Amount (b) Amount as % of Pay	\$ 46,687,639 10.77%
2.	Statutory Contribution Rates  (a) Employee Contribution Rate  (b) Employer Contribution Rate  (c) Total Employee/Employer Contribution Rate [2(a) + 2(b)]	4.80% 7.49% 12.29%
3.	Additional Required State Contribution  (a) Additional Required State Contribution Rate  [1(b) - 2(c), not less than 0.00%]  (b) Additional Required State Contribution Amount for the 2009 plan year	0.00% \$ 0
4.	Additional Required State Contribution Amount for the 2010/2011 fiscal year [item 3(b) with interest]	\$ 0
C.	Development of Excess Contribution Rate Available for Benefit Improvements	Annual Amount as a % of Pay
1.	Total Statutory Contribution Rate	12.29%
2.	Benefit Improvement Threshold Rate [90% of 1]	11.06%
3.	Actuarially Required Contribution Rate	10.77%
4.	Funding Excess Available for Benefit Improvement  (a) As a Rate of Pay [2 - 3, not less than 0%]  (b) Annual Amount	0.29% \$ 1,256,853

### **ACTUARIAL CONTRIBUTION REQUIREMENT**

D.	Schedule of Amortization Bases	January 1, 2009 Remaining Payments	Date of Last Payment		Outstanding Balance as of anuary 1, 2009	(	Annual Contribution
1.	2009 Unfunded Actuarial Accrued Liability base	25	07/01/2033	\$	20,710,304	\$	1,829,291
Tot	al			\$	20,710,304	\$	1,829,291

### ACTUARIAL GAIN/(LOSS)

The actuarial gain/(loss) is comprised of both the liability gain/(loss) and the actuarial asset gain/(loss). Each of these represents the difference between the expected and actual values as of January 1, 2009.

1.	Exp	ected Actuarial Accrued Liability		
	a.	Actuarial Accrued Liability as of January 1, 2008	\$	586,829,526
	b.	Normal Cost during 2008		39,887,065
	C.	Benefit Payments for Plan Year Ending December 31, 2008		31,887,783
	d.	Interest on a, b, and c to End of Year		<u>45,783,477</u>
	e.	Expected Actuarial Accrued Liability Before Changes $[a + b - c + d]$	\$	640,612,285
	f.	Change in Actuarial Accrued Liability at January 1, 2009 Due to 5.18% Dividend Paid in 2008		21,161,708
	g.	Expected Actuarial Accrued Liability at January 1, 2009	\$	661,773,993
2.	Actu	arial Accrued Liability at January 1, 2009		<u>658,249,398</u>
3.	Liability Gain/(Loss) [1g - 2]		\$	3,524,595
4.	Exp	ected Actuarial Value of Assets		
	a.	Actuarial Value of Assets as of January 1, 2008	\$	606,552,428
	b.	Contributions and Transfers In During Plan Year		51,696,457
	C.	Benefit Payments During Plan Year		31,887,783
	d.	Interest on a, b, and c to End of Year		<u>47,761,077</u>
	e.	Expected Actuarial Value of Assets at January 1, 2009 $[a + b - c + d]$	\$	674,122,179
5.	Actuarial Value of Assets as of January 1, 2009			<u>637,539,094</u>
6.	Act	uarial Asset Gain/(Loss) [5 – 4e]	\$	(36,583,085)
7.	Actu	uarial Gain/(Loss) [3 + 6]	\$	(33,058,490)

### **ACTUARIAL BALANCE SHEET**

A.	Financial Resources	January 1, 2009		
1.	Actuarial Value of Assets		\$	637,539,094
2.	Present Value of Future Normal Cost Contributions <ul><li>(a) Member</li><li>(b) Employer</li><li>(c) Total</li></ul>	\$ 158,152,246 195,855,723		354,007,969
3.	Unfunded Actuarial Accrued Liability			20,710,304
4.	Total Assets [1 + 2(c) + 3]		\$	1,012,257,367

В.	Benefit Obligations		January 1, 2009
1.	Present Value of Future Benefits  (a) Active members  (b) Inactive members  (c) Retirees, disabilities and beneficiaries  (d) Total	\$ 925,775,680 41,991,913 <u>44,489,774</u>	\$ 1,012,257,367

### **ACCOUNTING INFORMATION**

### A. Pension Benefit Obligation under the Projected Unit Credit Cost Method

		January 1, 2008	Ja	anuary 1, 2009
Pension Benefit Obligation (PBO)				
Vested PBO				
(a) members currently receiving payments (b) other members	\$	32,751,090	\$	44,489,774
i) accumulated member contributions		218,775,937		241,027,572
ii) employer financed vested		<u>309,074,473</u>		<u>353,850,283</u>
Total Vested PBO	\$	560,601,500	\$	639,367,629
Non-vested PBO		<u>6,340,966</u>		<u>4,565,375</u>
Total PBO	\$	566,942,466	\$	643,933,004
Actuarial Value of Assets		606,552,428		637,539,094
Unfunded Pension Benefit Obligation	\$	(39,609,962)	\$	6,393,910
Funded Percentage				
(a) on vested PBO		108.2%		99.7%
(b) on total PBO		107.0%		99.0%

### B. Change in Pension Benefit Obligation from January 1, 2008 to January 1, 2009

Pension Benefit Obligation at January 1, 2008	\$ 566,942,466
Increase/(Decrease) during Period	
Plan Provision Changes	\$ 19,639,636
Benefits Accumulated	37,482,839
Benefits Paid	(31,887,783)
Interest Cost	47,152,437
Plan Experience	<u>4,603,409</u>
Total Change	\$ 76,990,538
Pension Benefit Obligation at January 1, 2009	\$ 643,933,004

### **ACCOUNTING INFORMATION**

Exhibits 9 and 10 provide a more detailed summary of the underlying actuarial methods and assumptions used in the calculations of the Pension Benefit Obligation. The benefits valued are those in effect on January 1, 2009, as outlined in Exhibit 8. The determination of the Pension Benefit Obligation has been made in accordance with generally accepted actuarial principles and practices.

### C. Schedule of Employer Contributions - Disclosure Requirements Under GASB No. 25

Plan Year Ending	nual Required ontributions	Percentage Contributed
December 31, 2003	\$ 11,474,951	100%
December 31, 2004	\$ 13,129,236	100%
December 31, 2005	\$ 14,835,174	100%
December 31, 2006	\$ 16,001,418	100%
December 31, 2007	\$ 22,913,163	100%
December 31, 2008	\$ 29,208,772	100%

### D. Actuarial Assumptions, Method and Additional Information under GASB No. 25

Valuation Date	December 31, 2008
Actuarial Cost Method	Entry Age
Amortization Method	Level dollar amount, closed
Amortization period	25 years
Asset Valuation Method	5 year smoothing of market value
Actuarial Assumptions: Investment rate of return* Projected salary increases*	7.75% 4.5% – 5.9%
*Includes inflation at	3.5%
Cost-of-living adjustment	None



### **ACCOUNTING INFORMATION**

### E. Schedule of Funding Progress Under GASB No. 25

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded Accrued Liabilities (UAL) (b) – (a)	Funded Ratio (a) ÷ (b)	Covered Payroll (c)	UAL as a % of Covered Payroll [(b) – (a) / (c)]
December 31, 2003	\$ 254,175,882	\$ 241,192,355	\$ (12,983,527)	105.4%	\$ 171,324,288	(7.6%)
December 31, 2004	\$ 297,573,422	\$ 272,300,201	\$ (25,273,221)	109.3%	\$ 192,618,880	(13.1%)
December 31, 2005	\$ 342,729,602	\$ 300,852,371	\$ (41,877,231)	113.9%	\$ 238,874,344	(17.5%)
December 31, 2006	\$ 392,442,206	\$ 379,734,639	\$ (12,707,567)	103.3%	\$ 323,982,997	(3.9%)
December 31, 2007	\$ 606,552,428	\$ 586,829,526	\$ (19,722,902)	103.4%	\$ 384,708,712	(5.1%)
December 31, 2008	\$ 637,539,094	\$ 658,249,398	\$ 20,710,304	96.9%	\$ 433,397,447	4.8%



### SUMMARY OF MEMBER DATA

A.	Active Members	J	lanuary 1, 2008		January 1, 2009
1.	Number of active members  (a) Before assumed retirement age  (b) Beyond assumed retirement age  (c) Total		10,770 108 10,878*		11,202 <u>121</u> 11,323
2.	Annual considered compensation  (a) Before assumed retirement age  (b) Beyond assumed retirement age  (c) Total	\$	380,342,989 4,365,723 384,708,712	\$	427,598,469 <u>5,798,978</u> 433,397,447
3.	Accumulated contributions  (a) Employee Cash Balance Account  (b) Employer Cash Balance Account  (c) Total Cash Balance Account	\$	204,728,916 316,232,515 520,961,431	\$	224,145,233 347,392,739 571,537,972
4.	Active member averages (a) Age (b) Service (c) Compensation (d) Cash Balance Account	\$ \$	43.99 7.63 35,366 47,891	\$ \$	43.97 7.70 38,276 50,476
B.	Inactive Members				
1.	Number of inactive members		1,679**		2,477
2.	Total vested Cash Balance Account	\$	35,548,836	\$	41,991,913
3.	Inactive member averages  (a) Age  (b) Vested Cash Balance Account	\$	42.4 21,173	\$	41.3 16,953
C.	Retired and Disabled Members and Beneficiarie			<u> </u>	20,000
1.	Number of members  (a) Retired  (b) Disabled  (c) Beneficiaries  (d) Total		320 0 9 329		404 0 <u>16</u> 420
2.	Annual benefits (a) Retired (b) Disabled (c) Beneficiaries	\$	3,611,246 0 <u>49,422</u> 3,660,668	\$	4,800,368 0 <u>156,176</u> 4,956,544

<sup>\*</sup> Includes 1,016 members who transferred from defined contribution.



<sup>\*\*</sup> Includes 139 members who transferred from defined contribution.

### SUMMARY OF MEMBER DATA

### D. Distribution of Retired and Disabled Members and Beneficiaries as of January 1, 2009

Age Range	Number	Annual Benefit	Average Annual Benefit
Under 50	2	\$ 14,588	\$ 7,294
50 – 54	4	22,774	5,694
55 – 59	24	200,185	8,341
60 – 64	100	1,256,886	12,569
65 – 69	189	2,191,208	11,594
70 – 74	78	951,606	12,200
75 – 79	19	234,732	12,354
80 and Over	<u>4</u>	<u>84,565</u>	<u>21,141</u>
Total	420	\$ 4,956,544	\$ 11,801

### E. Member Data Reconciliation

	Active	Terminated With Vested Employer	Terminated With Non-Vested Employer	Retired and Disabled	Bene-	
	Members	Balances	Balances	Members	ficiaries	Total
As of January 1, 2008	10,878	834	845	320	9	12,886
Changes in status						
a) Normal & early retirements	(49)	(19)	0	68	0	0
b) Became payable	0	0	0	0	0	0
c) Deaths	0	0	0	(8)	(1)	(9)
d) Nonvested terminations	(710)	0	710	0	0	0
e) Vested terminations	(510)	510	0	0	0	0
f) Contribution refund	(279)	(222)	(177)	0	0	(678)
g) Beneficiaries in receipt	0	0	0	0	8	8
h) Disability retirements	0	0	0	0	0	0
i) DC retirements	0	0	0	23	0	23
j) Return to active service	33	(15)	(18)	0	0	0
k) Data Change	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>
Total changes in status	(1,515)	254	515	84	7	(655)
New entrants	1,960	6	23	0	0	1,989
Net change	445	260	538	84	7	1,334
As of January 1, 2009	11,323	1,094	1,383	404	16	14,220

### SUMMARY OF MEMBER DATA

### F. Age and Service Distribution of Active Members as of January 1, 2009

Age Last								4= 40											_	
Birthday		0-4		5-9		10-14		15-19		20-24	-	25-29		30-34		35-39	40	0 and Over	Gr	and Total
20.24	Number	953	_	2	_	0	_	0	_	0		0	_	0	_	0	_	0		955
20-24	Total Salary	\$ 26,484,093	\$	59,024	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0		26,543,117
	Average Sal.	\$ 27,790	\$	29,512	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	27,794
	Number	1,429	١.	89	١.	0	١.	0	١.	0	١.	0	١.	0	١.	0	١.	0	١. ـ	1,518
25-29	Total Salary	\$ 47,827,168	\$	3,163,772	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0		50,990,940
	Average Sal.	\$ 32,948	\$	35,548	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	33,591
	Number	976	١.	225	١.	9	١.	0	١.	0	١.	0	١.	0	١.	0	١.	0	١	1,210
30-34	Total Salary	\$ 33,598,556	\$	8,603,100	\$	391,266	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0		12,592,922
	Average Sal.	\$ 34,425	\$	38,236	\$	43,474	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	35,201
	Number	730	١.	214		48	١.	3		0	١.	0	١.	0	١.	0	١.	0		995
35-39	Total Salary	\$ 25,494,290	\$	8,588,248	\$	1,989,120	\$	139,716	\$	0	\$	0	\$	0	\$	0	\$	0		36,211,374
	Average Sal.	\$ 34,924	\$	40,132	\$	41,440	\$	46,572	\$	0	\$	0	\$	0	\$	0	\$	0	\$	36,394
	Number	621		166		92		51		0		0		0		0		0		930
40-44	Total Salary	\$ 20,977,505	\$	6,483,628	\$	4,092,344	\$	, ,	\$	0	\$	0	\$	0	\$	0	\$	0		33,882,902
	Average Sal.	\$ 33,780	\$	39,058	\$	44,482	\$	45,675	\$	0	\$	0	\$	0	\$	0	\$	0	\$	36,433
	Number	617		220		92		192		64		0		0		0		0		1,185
45-49	Total Salary	\$ 21,423,985	\$	8,832,120	\$	3,895,372			\$	, ,	\$	0	\$	0	\$	0	\$	0		16,110,965
	Average Sal.	\$ 34,723	\$	40,146	\$	42,341	\$	45,817	\$	,	\$	0	\$	0	\$	0	\$	0	\$	38,912
	Number	647		250		95		143		340		63		0		0		0		1,538
50-54	Total Salary	\$ 23,477,694	\$	9,732,500	\$	3,817,290	\$		\$	16,463,820	\$	2,978,640	\$	0	\$	0	\$	0	\$ 6	53,258,726
	Average Sal.	\$ 36,287	\$	38,930	\$	40,182	\$	47,474	\$	48,423	\$	47,280	\$	0	\$	0	\$	0	\$	41,130
	Number	506		231		108		148		162		403		7		0		0		1,565
55-59	Total Salary	\$ 18,772,340	\$	9,194,955	\$	4,375,296	\$		\$	8,088,336	\$	21,726,133	\$	387,352	\$	0	\$	0		58,928,688
	Average Sal.	\$ 37,099	\$	39,805	\$	40,512	\$	43,137	\$	,	\$	53,911	\$	55,336	\$	0	\$	0	\$	44,044
	Number	243		149		95		109		106		108		223		3		0		1,036
60-64	Total Salary	\$ 8,335,133	\$	, ,	\$	3,881,510	\$		\$		\$	6,061,932	\$	13,216,318	\$	140,295	\$	0	\$ 4	17,835,010
	Average Sal.	\$ 34,301	\$	40,485	\$	40,858	\$	45,451	\$	49,183	\$	56,129	\$	59,266	\$	46,765	\$	0	\$	46,173
	Number	48		30		24		30		42		36		19		49		5		283
65-69	Total Salary	\$ 1,579,150	\$	1,024,470	\$	1,136,880	\$	1,063,170	\$	1,931,286	\$	1,720,476	\$	1,040,041	\$	2,644,971	\$	360,870	\$ 1	12,501,314
	Average Sal.	\$ 32,899	\$	34,149	\$	47,370	\$	35,439	\$	45,983	\$	47,791	\$	54,739	\$	53,979	\$	72,174	\$	44,174
	Number	22		14		13		9		16		12		7		6		9		108
70 & Up	Total Salary	\$ 867,412	\$	466,592	\$	369,213	\$	444,069	\$	643,888	\$	505,728	\$	263,515	\$	336,060	\$	645,012	\$	4,541,489
	Average Sal.	\$ 39,428	\$	33,328	\$	28,401	\$	49,341	\$	40,243	\$	42,144	\$	37,645	\$	56,010	\$	71,668	\$	42,051
	Number	6,792		1,590		576		685		730		622		256		58		14		11,323
Total	Total Salary	\$ 228,837,326	\$	62,180,674	\$	23,948,291	\$	30,900,461	\$	35,503,352	\$	32,992,909	\$	14,907,226	\$	3,121,326	\$	1,005,882	\$43	33,397,447
	Average Sal.	\$ 33,692	\$	39,107	\$	41,577	\$	45,110	\$	48,635	\$	53,043	\$	58,231	\$	53,816	\$	71,849	\$	38,276



### **SUMMARY OF MEMBER DATA**

### G. Reconciliation of Data Submitted By NPERS and Valuation Data

	Active Members	Inactive Members	Retired Members, Beneficiaries, and Disabled	Total
Number of Data Records Submitted By NPERS	11,336	2,798	420	14,554
Additions				
a) 2009 Active	0	0	0	0
b) 2008 Balance Only	0	0	0	0
c) 2008 Deferred Vested	0	0	0	0
d) 2008 Retired	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	0	0	0	0
Subtractions				
a) Deaths	0	(1)	0	(1)
b) Assumed Inactive	(4)	4	0	0
c) Assumed Refunded	(7)	(218)	0	(225)
d) Null Balance	0	(52)	0	(52)
e) Not a member	(2)	0	0	(2)
f) Also Listed as Retired	0	(54)	0	(54)
g) Represents Dividend	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	(13)	(321)	0	(334)
Net change	(13)	(321)	0	(334)
Number of Members Included in the Valuation as of January 1, 2009	11,323	2,477	420	14,220

### FORECAST OF EXPECTED DISBURSEMENTS

Plan Year Ending December 31	Active Employees	Retired and Disabled Members and Beneficiaries	Total			
2009	\$ 24,602,306	\$ 4,880,546	\$ 29,482,852			
2010	30,002,062	4,760,200	34,762,262			
2011	35,312,783	4,723,903	40,036,686			
2012	39,520,948	4,600,331	44,121,279			
2013	44,191,845	4,516,214	48,708,059			
2014	48,938,772	4,435,334	53,374,106			
2015	54,497,134	4,325,523	58,822,657			
2016	59,999,321	4,155,117	64,154,438			
2017	65,617,975	4,068,544	69,686,519			
2018	70,919,966	3,821,021	74,740,987			

**Note:** These amounts are based on the assumption members terminating before reaching retirement eligibility will elect a lump sum distribution of their cash balance account. Members eligible for retirement will elect a monthly annuity, payable for life with five years certain. Deferred vested and non-vested members are excluded from the disbursement forecast.

### SUMMARY OF PLAN PROVISIONS

#### **Membership**

All permanent full-time employees of the State shall begin immediate participation in the State Employees' Retirement System as of January 1, 2007 or date of hire, if later, and all permanent full-time or permanent part-time employees who have attained the age of twenty may exercise the option to begin immediate participation in the State Employees' Retirement System.

Existing members of the State Employees' Retirement System may elect, during the period beginning November 1, 2007 and ending December 31, 2007 to participate in the Cash Balance benefit. If no election is made by December 31, 2007, the member shall be treated as though he or she elected to continue participating in the Defined Contribution benefit as provided in the State Employees' Retirement Act.

Existing members of the State Employees' Retirement System may elect, during the period beginning October 1, 2002, and ending December 31, 2002, to participate in the Cash Balance benefit. If no election is made by January 1, 2003, the member shall be treated as though he or she elected to continue participating in the Defined Contribution benefit as provided in the State Employees' Retirement Act. For a member who first participates in the Retirement System on or after January 1, 2003, he or she shall automatically participate in the Cash Balance benefit subject to plan eligibility requirements.

#### **Compensation Considered**

Compensation means gross wages or salaries payable to the member for personal services performed during the plan year, overtime pay, member retirement contributions, and amounts contributed by the member to plans under sections 125, 403(b) and 457 of the Internal Revenue Code or any other section of the code which defers or excludes such amounts from income.

#### **Member Contributions**

Members of the State retirement system shall contribute an amount equal to four and eight-tenths percent (4.8%) of annual compensation to the fund. The member contribution shall be credited to the employee cash balance account.

#### **Employer Contributions**

The State shall contribute at a rate of 156% of the members' contributions to the fund. The State contribution shall be credited to the employer cash balance account.

### **Interest Credit Rate**

Interest credit rate means the greater of (a) five percent or (b) the applicable federal mid-term rate as published by the Internal Revenue Service as of the first day of the calendar quarter for which interest credits are credited, plus one and one-half percent, such rate to be compounded annually.

#### **Interest Credits**

Interest credits means the amount credited to the employee cash balance account and the employer cash balance account at the end of each day. Such interest credit for each account shall be determined by applying the daily portion of the interest credit rate to the account balance at the end of the previous day.



#### SUMMARY OF PLAN PROVISIONS

#### **Retirement Age**

A member is eligible for retirement after attaining age 55.

#### **Service**

Service is defined to mean the actual total length of employment with the State and is not interrupted by a) temporary or seasonal suspension of service that does not terminate the member's employment, b) leave of absence authorized by the state for no longer than twelve months, c) leave of absence due to disability or d) leave due to military service.

#### **Retirement Allowance**

Upon attainment of age 55 regardless of service, the retirement allowance, shall be equal to the accumulated employee and employer cash balance accounts including interest credit, annuitized for payment in the normal form. Also available are additional forms of payment allowed under the plan which are actuarially equivalent to the normal form including the option of a lump sum or partial lump sum.

#### **Normal Form of Payment**

The normal form of payment under the Cash Balance benefit is a single life annuity with five-year certain, payable monthly. Members will have the option to convert their member cash balance account to a monthly annuity with built in cost-of-living adjustments of 2.5% annually. This monthly benefit and all other options allowed under the Plan will be of actuarial equivalence to the accumulated employee and employer cash balance accounts including interest credits.

#### **Optional Form of Payment**

Optional forms of payment include a lump sum and the following annuities (with or without a 2.5% COLA): life annuity, modified cash refund, certain and life annuity (5, 10 or 15 years), certain only annuity (5, 10, 15 or 20 years) and joint and survivor annuity (50%, 75% or 100%).

#### **Deferred Vested Allowance**

A member who terminates with at least 3 years of participation in the system, including eligibility and vesting credit, may choose to leave his employee and employer cash balance accounts in the fund and be eligible to receive a vested monthly allowance at retirement age or request a distribution of his employee and employer cash balance accounts plus interest credit, with no future benefit payable from the plan.

#### **Severance Benefits**

A member who terminates with less than 3 years of participation in the system, including eligibility and vesting credit, may elect to receive a distribution of his/her employee cash balance account including interest credit, with no future benefit payable from the plan.

#### **Disability Allowance**

If a member becomes disabled prior to retirement, the member shall receive the total amount of his/her accumulated employee and employer cash balance accounts including interest credit, as a lump sum or converted into a monthly annuity, as defined under the retirement allowance.



### SUMMARY OF PLAN PROVISIONS

#### **Pre-retirement Death Allowance**

If a member dies prior to retirement, the surviving spouse, designated beneficiary (if different), or estate shall receive the total amount of his/her accumulated employee and employer cash balance accounts including interest credit, as a lump sum or converted into a monthly annuity, as defined under the retirement allowance.

#### **Defined Contribution Transfers at Retirement**

Upon retirement, members participating in the Defined Contribution Benefit Fund may elect to annuitize their accumulated account balance and receive a monthly benefit payment from the Cash Balance Benefit Fund. The accumulated account balance is transferred from the Defined Contribution Benefit Fund to the Cash Balance Benefit Fund upon the retirement of a DC member electing an annuity. The actuarial assumptions used to convert the accumulated account balance are (i) the 1994 Group Annuity Mortality Table with a 50% male / 50% female mix, and (ii) the PBGC Table 2 rate at the beginning of the year plus 0.75%.

### **Benefit Improvements**

In accordance with Section 84-1319 of the Nebraska State Statutes, the Public Employees' Retirement Board may grant benefit improvements, but in no event will such improvement result in an actuarially required contribution rate in excess of 90% of the total statutory contribution rate.



### SUMMARY OF ACTUARIAL METHODS AND PROCEDURES AS OF JANUARY 1, 2009

#### A. ACTUARIAL METHODS

1. Calculation of Normal Cost and Actuarial Accrued Liability: The method used to determine the normal cost and actuarial accrued liability was the Entry Age Actuarial Cost Method described below.

#### **Entry Age Actuarial Cost Method**

Projected pension benefits were determined for all active members under age 70. Cost factors designed to produce annual costs as a constant percentage of each member's expected compensation in each year 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 under age 70 and determining an average normal cost rate which is then related to the total payroll of active members under age 70. The actuarial assumptions shown in Exhibit 9 were used in determining the projected benefits and cost factors. 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, active members age 70 and over, 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 normal costs are now 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. The unfunded actuarial accrued liability is funded with a level dollar payment amount over 25 years from January 1, 2009.

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.



### SUMMARY OF ACTUARIAL METHODS AND PROCEDURES AS OF JANUARY 1, 2009

- 2. Calculation of the Actuarial Value of Assets: Effective January 1, 2003, the actuarial value of assets was initialized at Market Value and equals the sum of the employee and employer cash balance accounts. In future years, the actuarial value of assets will be based on a five-year smoothing method with phase-in and is determined by spreading the effect of each year's investment return in excess of or below the expected return. The Market Value of assets at the valuation date is reduced by the sum of the following, each determined after January 1, 2003:
  - (i) 80% of the return to be spread during the first year preceding the valuation date.
  - (ii) 60% of the return to be spread during the second year preceding the valuation date.
  - (iii) 40% of the return to be spread during the third year preceding the valuation date.
  - (iv) 20% of the return to be spread during the fourth year preceding the valuation date.

The return to be spread is the difference between (1) the actual investment return on Market Value and (2) the expected return on Actuarial Value. The expected return on Actuarial Value includes interest on the previous year's unrecognized return.

**3.** Calculation of Pension Benefit Obligation: The method used to determine the Pension Benefit Obligation was the Projected Unit Credit Actuarial Cost Method with service proration. Under this method, the benefit is based on salary projected to assumed termination or retirement and service as of the valuation date.

#### **B. VALUATION PROCEDURES**

No actuarial liability is included for participants who terminated without being vested prior to the valuation date, except those due a refund of the cash balance account.

The compensation amounts used in the projection of benefits and liabilities for active members were prior plan year compensations.

Projected benefits were limited by the dollar limitation required by the Internal Revenue Code Section 415 as it applies to governmental plans and compensation limited by Section 401(a)(17).



### SUMMARY OF ACTUARIAL ASSUMPTIONS AS OF JANUARY 1, 2009

### **ECONOMIC ASSUMPTIONS**

- 1. Investment Return
- 2. Inflation
- 3. Interest Credit Rate on Cash Balance Accounts
- 4. Annuitization Rate of Member & Employer Accumulated Balances
- 5. Salary Scale

7.75% per annum, compounded annually, net of expenses.

3.5% per annum, compounded annually.

7.0% per annum, compounded annually.

7.75% per annum, compounded annually.

Graduated rates by service.

	Annual Increase in Salary					
Service	Merit &					
	Productivity	Inflation	Total			
0	2.3%	3.5%	5.9%			
1	2.2%	3.5%	5.8%			
2	2.0%	3.5%	5.6%			
3	1.7%	3.5%	5.3%			
4	1.5%	3.5%	5.1%			
5	1.4%	3.5%	5.0%			
6	1.4%	3.5%	4.9%			
7	1.4%	3.5%	4.9%			
8	1.3%	3.5%	4.9%			
9	1.3%	3.5%	4.8%			
10	1.3%	3.5%	4.8%			
11	1.3%	3.5%	4.8%			
12	1.2%	3.5%	4.8%			
13	1.2%	3.5%	4.7%			
14	1.2%	3.5%	4.7%			
15	1.1%	3.5%	4.7%			
16	1.1%	3.5%	4.6%			
17	1.1%	3.5%	4.6%			
18	1.0%	3.5%	4.6%			
19	1.0%	3.5%	4.6%			
20	1.0%	3.5%	4.5%			

### SUMMARY OF ACTUARIAL ASSUMPTIONS AS OF JANUARY 1, 2009

#### **DEMOGRAPHIC ASSUMPTIONS**

1. Mortality

a. Active members 1994 Group Annuity Mortality Table,

projected to 2010 (65% of male rates for males, 50% of female rates for females).

b. Retired members and beneficiaries 1994 Group Annuity Mortality Table,

projected to 2010.

c. Mortality rates under the mortality table for active members are shown below at sample ages:

Sample Age	Active Mortality Rate					
	Males	Females				
30	.05%	.02%				
40	.07	.04				
50	.17	.07				
60	.52	.22				
70	1.54	.69				
80	4.03	1.97				

d. Life expectancies under the mortality table for active members are shown below at sample ages:

Sample Age	Life Expectancy (Years)					
	Males	Females				
30	55.3	61.3				
40	45.6	51.4				
50	35.9	41.6				
60	26.6	32.0				
70	18.2	23.0				
80	11.1	14.9				

e. Mortality for Annuitization of Employee and Employer Cash Balance Accounts

1994 Group Annuity Mortality Table, with 50% Male, 50% Female blending.

Sample Age	Mortality Rate	Life Expectancy (Years)
55	.34%	28.0
60	.62%	23.5
65	1.16%	19.4
70	1.87%	15.7
75	2.99%	12.2
80	5.07%	9.3

### SUMMARY OF ACTUARIAL ASSUMPTIONS AS OF JANUARY 1, 2009

2. Retirement

Graduated rates by retirement age.

Age	Annual Rates
55	5.0%
56	5.0%
57	5.0%
58	5.0%
59	5.0%
60	5.0%
61	8.0%
62	15.0%
63	10.0%
64	15.0%
65	20.0%
66	20.0%
67	15.0%
68	15.0%
69	15.0%
70	100.0%

3. Termination

Graduated rates by age and service.

	Annual Rate Per 100 Members					
Age	<1	1-<2	2-<3	3-<4	4-<5	5+
20	15.0	14.0	13.0	11.5	10.0	10.0
25	15.0	14.0	13.0	11.5	10.0	10.0
30	15.0	14.0	13.0	11.5	10.0	7.8
35	15.0	14.0	13.0	11.5	10.0	5.7
40	15.0	14.0	13.0	11.5	10.0	4.8
45	15.0	14.0	13.0	11.5	10.0	3.6
50	15.0	14.0	13.0	11.5	10.0	3.0
55	15.0	14.0	13.0	11.5	10.0	3.0

### SUMMARY OF ACTUARIAL ASSUMPTIONS AS OF JANUARY 1, 2009

4. Disability

Graduated rates for all disabilities by age.

Age	Annual Rate Per 1,000 Members
20	0.20
25	0.30
30	0.40
35	0.80
40	1.80
45	3.50
50	6.30
55	10.30
60	15.60
65	21.70
70	25.70

#### **OTHER ASSUMPTIONS**

1. Payment Assumptions

As shown in the table below, 100% of all members eligible for retirement are assumed to be paid in the form of an annuity and 100% of members eligible for all other types of benefits are assumed to be paid in the form of a lump sum. Deferred vested and nonvested members are assumed to take a refund of their account balance as of the valuation date.

Benefit	Assumed Form of Payment
Retirement	Annuity*
Vested	Lump Sum
Non-vested	Lump Sum
Disability	Lump Sum
Death	Lump Sum

<sup>\*</sup>Five-year certain and life annuity.

2. Cost of Living Adjustment

None assumed.

### **GLOSSARY OF TERMS**

Actuarial Accrued Liability Total accumulated cost to fund pension benefits arising

from service in all prior years.

Actuarial Cost Method Technique used to assign or allocate, in a systematic and

consistent manner, the expected cost of a pension plan for a group of participants to the years of service that give

rise to that cost.

Actuarial Present Value

of Future Benefits

Amount which, together with future interest, is expected

to be sufficient to pay all future benefits.

Actuarial Valuation Study of probable amounts of future pension benefits and

the necessary amount of contributions to fund those

benefits.

Actuary Person who performs mathematical calculations pertaining

to pension and insurance benefits based on specific

procedures and assumptions.

Annual Required Contribution Disclosure measure of annual pension cost.

GASB 25 and GASB 27 Governmental Accounting Standards Board Statement

numbers 25 and 27 which specify how the Net Pension Obligation and Annual Required Contribution are to be

calculated.

Normal Cost That portion of the actuarial present value of benefits

assigned to a particular year in respect to an individual

participant or the plan as a whole.

Unfunded Actuarial

Accrued Liability

The portion of the actuarial accrued liability not offset by

plan assets.

Vested Benefits Benefits which are unconditionally guaranteed regardless

of employment status.