nyhart

Town of North Providence, Rhode Island Police Pension Plan

July 1, 2016 Actuarial Valuation Report

Table of Contents

Actuarial Certification	3
Executive Summary	5
Summary Results	5
Changes Since Prior Valuation and Key Notes	6
Assets and Liabilities	7
Present Value of Future Benefits	7
Funding Liabilities	8
Asset Information	9
Reconciliation of Gain/Loss	11
Reconciliation of Unfunded Actuarial Accrued Liability (UAAL)	12
Contribution Recommendation	13
Development of Actuarial Recommended Contribution	13
Demographic Information	14
Participant Reconciliation	16
Plan Provisions	18
Actuarial Assumptions	21



Actuarial Certification

At the request of the plan sponsor, this report summarizes the valuation of the Town of North Providence, Rhode Island Police Pension Plan as of July 1, 2016. The purpose of this report is to communicate the following results of the valuation:

· Funded Status: and

Determine Actuarial Recommended Contribution for the fiscal years 2017-18 and 2018-19.

This report has been prepared in accordance with the applicable Federal and State laws. Consequently, it may not be appropriate for other purposes. Please contact Nyhart prior to disclosing this report to any other party or relying on its content for any purpose other than that explained above. Failure to do so may result in misrepresentation or misinterpretation of this report.

The results in this report were prepared using information provided to us by other parties. The census and asset information has been provided to us by the employer. We have reviewed the provided data for reasonableness when compared to prior information provided, but have not audited the data. Where relevant data may be missing, we have made assumptions we believe to be reasonable. We are not aware of any significant issues with and have relied on the data provided. Any errors in the data provided may result in a different result than those provided in this report. A summary of the data used in the valuation is included in this report.

The actuarial assumptions and methods were chosen by the Board. In our opinion, all actuarial assumptions and methods are individually reasonable and in combination represent our best estimate of anticipated experience of 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 operation of the methodology used for these measurements (such as the end of an amortization period); and

· changes in plan provisions or applicable law.

We did not perform an analysis of the potential range of future measurements due to the limited scope of our engagement. This report has been prepared in accordance with generally accepted actuarial principles and practice.

Any valuation results shown prior to July 1, 2016 were provided by the prior actuary. The values were checked for reasonableness and when reproduced were within 5% of the provided values.

Neither Nyhart nor any of its employees have any relationship with the plan or its sponsor which could impair or appear to impair the objectivity of this report. To the extent that this report or any attachment concerns tax matters, it is not intended to be used and cannot be used by a taxpayer for the purpose of avoiding penalties that may be imposed by law.



Actuarial Certification

The undersigned are compliant with the continuing education requirements of the Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States and are available for any questions.

Nyhart

David D. Harris

David D. Harris, ASA, EA, MAAA

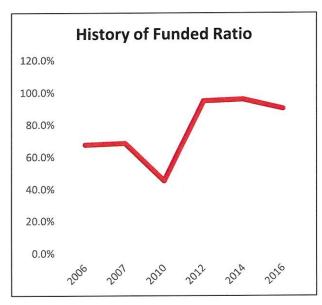
Sally Ray, ASA

December 20, 2016 Date

Summary Results

The actuarial valuation's primary purpose is to produce a scorecard measure displaying the funding progress of the plan toward the ultimate goal of paying benefits at retirement. The accrued liability is based on an entry age level percentage of pay.

	July 1, 2014	July 1, 2016
Funded Status Measures		
Accrued Liability	\$39,484,542	\$44,148,794
Actuarial Value of Assets	37,854,440	39,792,575
Unfunded Actuarial Accrued Liability (UAAL)	\$1,630,102	\$4,356,219
Funded Percentage (AVA)	95.9%	90.1%
Funded Percentage (MVA)	97.3%	83.1%
Cost Measures		
First Plan Year to Contribute	2015 - 2016	2017 - 2018
Second Plan Year to Contribute	2016 - 2017	2018 - 2019
Recommended Contribution	\$812,452	\$1,079,745
As a percentage of payroll	22.1%	28.3%
Asset Performance		
Market Value of Assets (MVA)	\$38,426,236	\$36,680,757
Actuarial Value of Assets (AVA)	\$37,854,440	\$39,792,575
Actuarial Value/Market Value	98.5%	108.5%
Participant Information		
Active Participants	62	61
Terminated Vested Participants	7	6
Retirees, Beneficiaries, and Disabled Participants	74	88
Total	143	155
Expected Payroll	\$3,674,859	\$3,811,043



Changes since Prior Valuation and Key Notes

There have been no changes to the plan provisions since the last valuation.

To better reflect anticipated experience, the healthy mortality table used to measure funding liability has been changed from RP-2000 Mortality Table, Male and Female, with generational projection of future mortality improvements per Scale AA to RP-2014 Blue Collar Mortality with generational improvements projected beginning in 2006 based on the Social Security Administration's assumptions from the 2015 Trustees' Report. In addition, the disabled mortality table used to measure funding liability has been changed from RP-2000 Disabled Mortality Table, Male and Female, with generational projection of future mortality improvements per Scale AA to RP-2014 Disabled Mortality with generational improvements projected beginning in 2006 based on the Social Security Administration's assumptions from the 2015 Trustees' Report. These changes resulted in a decrease in the liabilities and normal cost.

Based on information provided by the Town regarding proposed salary negotiations with the Police Union, the salary scale was changed from an age-based table to a flat 2.00% scale. This change results in a decrease in liabilities and normal cost.

To be consistent with the updated salary scale, the payroll growth rate for amortization of Unfunded Actuarial Accrued Liability was changed from 3.5% to 2.0%. This change resulted in a slight increase in the actuarially recommended contribution.

Any valuation results shown prior to July 1, 2016 were provided by the prior actuary. The values were checked for reasonableness and when reproduced were within 5% of the provided values.

The actuarially recommended contribution has increased from 22.1% of payroll to 28.3% of payroll, attributed mainly to:

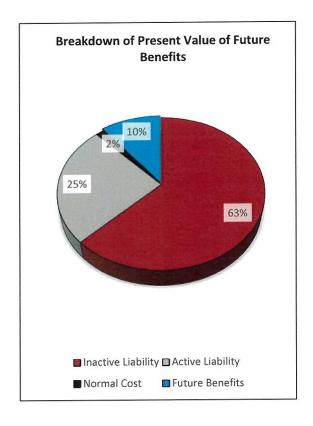
- O Asset experience: market returns were flat for the past two years versus the expectation of 7.25% annual growth (+5.8% of payroll)
- Demographic experience: (+7.6% of payroll)
 - Salary increases about twice the expected amounts
 - More retirements than expected with larger benefits than expected
- Assumption changes (-6.1% of payroll)



Present Value of Future Benefits

The Present Value of Future Benefits represents the future benefits payable to the existing participants.

	July 1, 2016
Present Value of Future Benefits	
Active participants	
Retirement	\$17,331,460
Disability	1,044,260
Death	249,992
Termination	44,338
Refund of contributions	0
Total active	\$18,670,050
nactive participants	
Retired participants	\$23,581,716
Beneficiaries	439,052
Disabled participants	6,480,412
Terminated vested participants	932,437
Total inactive	\$31,433,617
Total	\$50,103,667
Present value of future payrolls	\$30,954,734

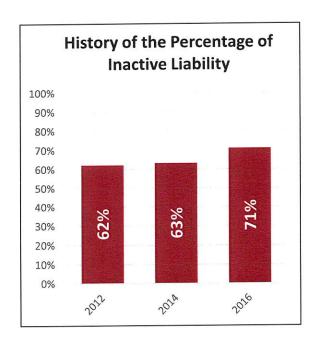




Accrued Liability

The Funding Liability measures the present value of benefits earned as of the valuation date, using a specified set of actuarial assumptions.

	July 1, 2016
unding Liabilities	
active participants	
Retirement	\$12,133,987
Disability	486,846
Death	94,828
Termination	(484)
Refund of contributions	0
Total Active	\$12,715,177
nactive participants	
Retired participants	\$23,581,716
Beneficiaries	439,052
Disabled participants	6,480,412
Terminated vested participants	932,437
Total Inactive	\$31,433,617
Total	\$44,148,794
Normal Cost	\$736,642

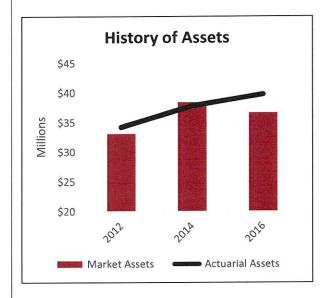




Asset Information

The amount of assets backing the pension promise is the most significant driver of volatility and future costs within a pension plan. The investment performance of the assets directly offsets the ultimate cost.

	July 1, 2015	July 1, 2016
Market Value Reconciliation	2014 – 2015	2015 - 2016
Market value of assets, beginning of prior plan year	\$38,426,236	\$37,521,716
Contributions		
Employer contributions	849,111	832,616
Employee contributions	369,520	315,247
Total	\$1,218,631	\$1,147,863
Investment income and expenses	(186,787)	236,394
Benefit payments	(1,936,364)	(2,225,216)
Market value of asset, beginning of current year	\$37,521,716	\$36,680,757
Return on Market Value	-0.49%	0.64%
Market value of assets available for pension benefits	\$37,521,716	\$36,680,757
Actuarial Value of Assets		
Value at beginning of current year	\$39,393,834	\$39,792,575





Asset Information (continued)

Plan Assets are used to develop funded percentages and contribution requirements.

Expected Market Value of Assets as of July 1, 2015	
(a) Market Value of assets as of July 1, 2014	\$38,426,236
(b) Employee Contributions	369,520
(c) Employer Contributions	849,111
(d) Benefit payments	(1,936,364
(e) Expected Investment Income	2,750,256
(f) Expected Market Value of Assets as of July 1, 2015	\$40,458,759
2. Actual Market Value of Assets as of July 1, 2015	\$37,521,716
	407,021,710
3. Market Value (Gain)/Loss for 2014-15, (1f) – (2)	\$2,937,043
Expected Market Value of Assets as of July 1, 2016	
(a) Market Value of coasts on of July 1, 2015	\$37,521,716
(a) Market Value of assets as of July 1, 2015 (b) Employee Contributions	315,247
(c) Employer Contributions	832,616
(d) Benefit payments	(2,225,216
(e) Expected Investment Income	2,676,875
(f) Expected Market Value of Assets as of July 1, 2016	\$39,121,238
. Actual Market Value of Assets as of July 1, 2016	#20.000 7F
	\$36,680,757
i. Market Value (Gain)/Loss for 2015-16: (4f) – (5)	\$2,440,48
	\$2,44U,40
7. Deferred Investment gains or (losses)	\$1,952,38
(a) Current year: 80% x \$2,440,461 (b) First prior year: 60% x \$2,937,043	1,762,226
(c) Second prior year: 40% x (\$2,274,300)	(909,720
(d) Third prior year: 20% x \$1,534,634	306,927
(e) Total	\$3,111,818
s. Final actuarial value of assets, (5) + (7e)	\$39,792,575
Return on actuarial value of assets 2014-15	6.02%
0. Return on actuarial value of assets 2015-16	3.80%

Reconciliation of Gain/Loss

	July 1, 2016
Liability (gain)/loss	
Actuarial liability, beginning of prior year	\$39,484,542
Normal cost for July 1, 2014 – July 1, 2016	1,656,580
Benefit payments for July 1, 2014 - July 1, 2016	(4,161,580)
Change in Assumptions	(915,854)
Expected Interest	5,823,702
Expected actuarial liability, beginning of current year	\$41,887,390
Actual actuarial liability	\$44,148,794
Liability (gain)/loss	\$2,261,404
Asset (gain)/loss	
Actuarial value of assets, beginning of prior year	\$37,854,440
Employer Contributions	1,681,727
Employee Contributions	684,767
Benefit payments	(4,161,580)
Expected Investment return	5,465,800
Expected actuarial value of assets, beginning of current year	\$41,525,154
Actual actuarial value of assets, beginning of current year	\$39,792,575
Asset (gain)/loss	\$1,732,579
Total (gain)/loss	\$3,993,983

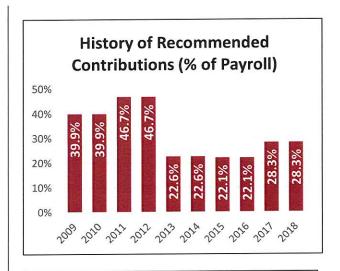
Reconciliation of Unfunded Actuarial Accrued Liability (UAAL)

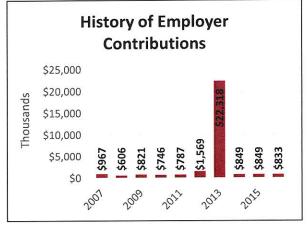
	July 1, 2016
UAAL beginning of prior year	
	\$1,630,102
2. Normal Cost	1,656,580
3. Expenses	0
4. Employer Contributions	(1,681,727)
5. Employee Contributions	(684,767)
6. Interest	357,902
7. Expected UAAL, beginning of current year	\$1,278,090
8. Changes due to:	
(a) Amendments	\$ 0
(b) Assumptions	
(1) Mortality & Salary Scale Update	(915,854)
(c) Funding Methods	0
(d) (Gain)/Loss	3,993,983
(e) Total	\$3,078,129
9. UAAL beginning of current year	\$4,356,219

Development of Actuarial Recommended Contribution

The actuarial recommended contribution is the annual amount necessary to fund the plan according to funding policies and/or applicable laws.

An	nortization of Unrecognized Actuarial Accrued Liability	
1.	Calculation of UAAL	
	(a) Accrued Liability	\$44,148,794
	(b) Actuarial Value of Assets	39,792,575
	(c) UAAL as of July 1, 2016	\$4,356,219
2.	Amortization Period	10
3.	UAAL Amortization as of July 1, 2016	\$540,373
Ac	tuarial Recommended Contribution	
1.	Normal Cost	
	(a) Total normal cost	\$736,642
	(b) Expected participant contributions	304,883
	(c) Net normal cost	\$431,759
2.	Amortization of UAAL	540,373
3.	Interest	107,613
4.	Calculated contribution at valuation date	\$1,079,745
5.	Valuation payroll	\$3,811,043
6.	Calculated contribution as a percentage of payroll	28.3%



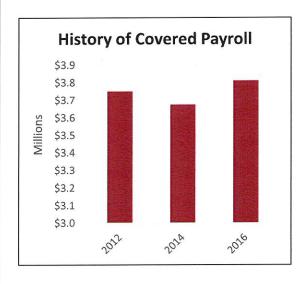




Demographic Information

The foundation of a reliable actuarial report is the participant information provided by the plan sponsor. Monitoring trends in demographic information is crucial for long-term pension planning.

	July 1, 2016
Participant Counts	
Active Participants	61
Retired Participants – Full Benefit	46
Retired Participants – COLA Only ¹	18
Beneficiaries	6
Disabled Participants	18
Terminated Vested Participants	6
Total Participants	155
Active Participant Demographics	
Average Age	37.8
Average Service	9.7
Average Compensation	\$62,476
Covered Payroll	\$3,811,043
Total Payroll	\$3,811,043



¹ This splits out retirees receiving only COLA payments from the Plan. Annuities were purchased through John Hancock.

Demographic Information (continued)

	July 1, 2016	
Retiree Statistics – Full Benefit		
Average Age	52.6	
Average Annual Benefit	\$35,082	
Retiree Statistics – COLA Only		
Average Age	73.6	
Average Annual COLA	\$2,640	
Beneficiary Statistics		
Average Age	68.7	
Average Annual Benefit	\$6,536	
Disabled Participants Statistics		
Average Age	54.6	
Average Annual Benefit	\$32,405	
Terminated Participants Statistics		
Average Age	43.0	
Average Annual Benefit	\$14,076	

Participant Reconciliation

	Active	Terminated Vested	Disabled	Retired	Beneficiaries	Totals
Prior Year	62	7	16	55	3	143
Active	TOTAL TOTAL SECTION OF A PART OF A SECTION OF THE PERSONS	District Control of the second	TOTAL COMMENTS AND			
To Retired	(10)	0	0	10	0	0
To Disabled	(1)	0	1	0	0	0
To Terminated Vested	(2)	2	0	0	0	0
Terminated Vested			1			
To Active	1	(1)	0	0	0	0
To Disabled	0	(1)	1	0	0	0
To Terminated Non-Vested	0	(1)	0	0	0	(1)
Retired	*					
To Death	0	0	0	(4)	0	(4)
Additions	; ;				and the second s	
New Hires	11	0	0	0	0	11
Alternate Payee	0	0	0	3	0	3
New Survivor	0	0	0	0	3	3
Departures	0	0	0	0	0	0
Current Year	61	6	18	64	6	155

Active Participant Schedule

Active participant information grouped based on age and service.

	Years of Service											
Age Group	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & Up	Total	
Under 25	1	1				5 5 2 7	2				2	
25 to 29	2	7	3		A SECTION OF SECTION ASSESSMENT	righted and an experience and out the control of a fine of a fine of the control of a fine of a fine of a fine of a fine	Government of the state of the	Citizani esperiation esperiatione esperiation esperial de la company de	generalis organis sensitas disastrata setta	Sec. 196 254 Monthly 12 10 10 10 10 10 10 10 10 10 10 10 10 10	12	
30 to 34	1	2	5	2		rijentosano mmertiron na nedantirus B B B B B B B B B B B B B B B B B B B		ABOUTETTO SECRETARIA DE TRANSPO	di anto come grando e maggingares e comune d	decreas de cursos consistentes de cumuladores (10	
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40 to 44		2	rdaneri uduskum unus kantae	4	3	1			Property of the second control of the second	CONTRACTOR AND	10	
45 to 49		LE TO ABOUT OF PRODUCTIONS	1	3	2	3	1	PROTESTAL CERT CONTROL OF	6 common conservations 		10	
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Total	4	12	14	18	7	5	1	0	0	0	61	

Plan Effective Date:

The plan was originally effective July 1, 1978.

Eligibility for Participation:

All full-time Police Officers working 1,000 hours or more and are contributing to the Plan are eligible to participate.

Credited Service:

For Vesting

A year of vesting service is credited for each plan year in which a participant is credited with at least 1,000 hours of service.

For Benefit Accrual

Full years and completed months from date of hire.

Average Compensation:

Average of 3 highest non-consecutive years during the last 10 years of base annual pay (including longevity pay and excluding overtime)

Normal Retirement Benefit:

Eligibility:

Completion of 20 years of service regardless of age

Benefit:

2.50% of Average Compensation for the first 20 years of Credited Service plus 2.00% of Average Compensation for any years of

Credited Service in excess of 20. The maximum retirement benefit is 75% of Average Compensation.

Occupational Disability Benefit:

Eligibility:

Permanent and total disability

Benefit:

66 2/3% of Average Compensation

Non-Occupational Disability Benefit:

Eligibility:

Completion of 7 years of service and eligible for Social Security Disability

Benefit:

50% of Average Compensation



Pre-Retirement Death Benefit:

Eligibility:

Immediately eligible, payable immediately

Benefit:

If married with surviving spouse, 40% of Final Average Salary plus 10% for dependent children, subject to a maximum of 50%. If no surviving spouse, 15% of Final Average Salary for each dependent child, subject to a maximum of 45%, and ceasing when the last

child has attained his 18th birthday.

Additional Benefit:

\$400 per year of service, subject to a minimum of \$2,000 and a maximum of \$8,000, but no less than the Employee

Accumulation. If death occurs after the termination date, only the Employee Accumulation is payable.

Post-Retirement Death Benefit:

Eligibility:

Death after retirement, payable immediately

Benefit:

\$400 per year of service, reduced by 25% for each year subsequent to retirement date subject to a minimum of \$2,000, plus the

Employee Accumulation less annuity payments received. If the former participant's termination date occurred before their retirement

date, only their Employee Accumulation less annuity payments received is payable.

Vesting:

100% on completing 10 years of vesting service

Employee Contributions:

Prior to January 1, 2007

7% of Compensation, accumulated with 5% interest

On or after January 1, 2007

8% of Compensation, accumulated with 5% interest

Normal form of payment

The normal form of payment for a married participant is a monthly benefit payable for the participant's lifetime with 67.5% of such benefit continuing to a surviving spouse. The normal form of payment for an unmarried participant is a monthly benefit payable for the participant's lifetime with no further payments after the participant's death.



Cost of Living Increases (FE):

Participants retiring on after July 1, 1982 and before July 1, 1986

Eligibility:

All eligible.

COLA:

Lump sum payment each January 1st in an amount equal to 3% of the original retirement allowance next following date of retirement,

plus 3% every year thereafter, not compounded.

Participants retiring on or after July 1, 1986 and before July 1, 2004

Eligibility:

Completion of 20 years of service

COLA:

Lump sum payment each January 1st in an amount equal to 3% of the original annual retirement allowance, increasing each year by

1%, to a maximum of 12%.

Participants retiring on or after July 1, 2004 and before January 1, 2006

Eligibility:

Completion of 20 years of service

COLA:

Lump sum payment each January 1st beginning January 1, 2008 in an amount equal to 3% per year of the annual retirement

allowance, not compounded, for a period of 15 years. At the end of 15 years, the COLA will not increase but will continue to be paid.

Participants retiring on or after July 1, 2006

Eligibility:

Completion of 20 years of service

COLA:

Lump sum payment each January 1st in an amount equal to 3% per year of the annual retirement allowance, not compounded, for a

period of 25 years. At the end of 25 years, the COLA will not increase but will continue to be paid.

Actuarial Equivalence

Actuarial Equivalence will be computed using 7.0% interest and the mortality table is the UP-1984 Table.

Plan Provisions Not Included

We are not aware of any plan provisions not included in the report.

Adjustments Made for Subsequent Events

We are not aware of any event following the measurement date and prior to the date of this report that would materially impact the results of this report.



Valuation Date:

July 1, 2016

Participant and Asset Information as of:

July 1, 2016

Retirement Rates (FE):

Service	Rate			
20	40%			
21-22	30%			
23-25	40%			
26-27	5%			
28	100%			

Withdrawal Rates (FE):

4ge	Rate		
20-30	2.90%		
35	1.90%		
40	1.70%		
45	0.00%		

Disability Rates (FE):

50% of the 1985 Pension Disability Table (DP-85) Class 4. 50% of disabilities are assumed to be duty-related

Mortality (FE):

Healthy

RP-2014 Blue Collar Mortality with generational improvements projected beginning in 2006 based on the Social

Security Administration's assumptions from the 2015 Trustees' Report

Disabled

RP-2014 Disabled Mortality with generational improvements projected beginning in 2006 based on the Social Security

Administration's assumptions from the 2015 Trustees' Report

Salary Projection Scale (FE):

2.00% based on information provided by the Town regarding proposed salary negotiations with the Police Union

Interest Rate (CO):

7.25%

Expense and/or

Contingency Loading (FE):

None

Marital Status and Ages (FE):

70% of Participants assumed to be married with wives assumed to be 1 year younger than husbands.

100% of active members are assumed to have one dependent child

Funding method

Liabilities and contributions in the report are based on application of an Entry Age Normal cost method.

In determining the Actuarially Recommended Contribution, the excess of the entry age actuarial accrued liability over the actuarial value of plan assets is amortized over an open 10-year period as a level percentage of pay. For this

purpose, pay is assumed to grow at 2.0% annually.



Asset Valuation Method:

Market value of assets with a five year smoothing of gains and losses.

Amortization Method:

Open 10-year level percent of pay amortization of Unfunded Actuarial Accrued Liability; for this purpose, pay is assumed to grow at 2.0% annually

Changes Since Prior Report:

The healthy mortality table used to measure funding liability has been changed from RP-2000 Mortality Table, Male and Female, with generational projection of future mortality improvements per Scale AA to RP-2014 Blue Collar Mortality with generational improvements projected beginning in 2006 based on the Social Security Administration's assumptions from the 2015 Trustees' Report. In addition, the disabled mortality table used to measure funding liability has been changed from RP-2000 Disabled Mortality Table, Male and Female, with generational projection of future mortality improvements per Scale AA to RP-2014 Disabled Mortality with generational improvements projected beginning in 2006 based on the Social Security Administration's assumptions from the 2015 Trustees' Report. In addition, based on information provided by the Town regarding proposed salary negotiations with the Police Union, the salary scale was changed from an age-based table to a flat 2.00% scale. All of these changes resulted in a decrease in the liabilities and normal cost.

To reflect the updated salary scale, the payroll growth rate for amortization of Unfunded Actuarial Accrued Liability was changed from 3.5% to 2.0%.

FE indicates an assumption representing an estimate of future experience

MD indicates an assumption representing observations of estimates inherent in market data

CO indicates an assumption representing a combination of an estimate of future experience and observations of market data