

ARLINGTON HGTS SD 25 REGULAR

GASB STATEMENT NO. 68 EMPLOYER REPORTING ACCOUNTING SCHEDULES DECEMBER 31, 2015

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April 15, 2016

Arlington Hgts SD 25 Illinois Municipal Retirement System

Ladies and Gentlemen:

The accounting schedules submitted in this report are required under the Governmental Accounting Standards Board (GASB) Statement No. 68 "Accounting and Financial Reporting for Pensions."

Our calculations for this report were prepared for the purpose of complying with the requirements of GASB Statement No. 68. These calculations have been made on a basis that is consistent with our understanding of these accounting standards. These results are subject to review by the system's auditor and may be revised.

Our calculation of the liability associated with the benefits described in this report was performed for the purpose of satisfying the requirements of GASB Statement No. 68. The Net Pension Liability is not an appropriate measure for measuring the sufficiency of plan assets to cover the estimated cost of settling the employer's benefit obligation. The Net Pension Liability is not an appropriate measure for assessing the need for or amount of future employer contributions. A calculation of the plan's liability for purposes other than satisfying the requirements of GASB Statement Nos. 67 and 68 may produce significantly different results. This report may be provided to parties other than the Arlington Hgts SD 25 only in its entirety and only with the permission of Arlington Hgts SD 25.

This report is based upon information, furnished to us by IMRF, concerning retirement and ancillary benefits, active members, deferred vested members, retirees and beneficiaries, and financial data. If your understanding of this information is different than ours, please let us know and do not use or distribute this report until those differences have been resolved to your satisfaction. This information was checked for internal consistency, but it was not otherwise audited.

Please see the actuarial valuation report for the Illinois Municipal Retirement Fund as of December 31, 2015 for additional discussions of the nature of actuarial calculations and more information related to participant data, economic and demographic assumptions, and benefit provisions.

To the best of our knowledge, the information contained in this report is accurate, and fairly represents the GASB 68 information relates to Arlington Hgts SD 25. All calculations have been made in conformity with generally accepted actuarial principles and practices as well as with the Actuarial Standards of Practice issued by the Actuarial Standards Board. Mark Buis and Francois Pieterse are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the Academy of Actuaries to render the actuarial opinions herein. The signing actuaries are independent of the plan sponsor.

Respectfully submitted,	/)	
By Ward Bri	By Tuterse	
Mark Buis	Francois Pieterse	
FSA, EA, MAAA	ASA, MAAA	

SECTION A
EXECUTIVE SUMMARY

EXECUTIVE SUMMARY AS OF DECEMBER 31, 2015

Actuarial Valuation Date	Dece	ember 31, 2015		
Measurement Date of the Net Pension Liability		December 31, 2015		
Fiscal Year End	Ju	ine 30, 2016		
Membership				
Number of				
- Retirees and Beneficiaries		247		
- Inactive, Non-Retired Members		249		
- Active Members		266		
- Total		762		
Covered Valuation Payroll	\$	7,633,456		
Net Pension Liability				
Total Pension Liability/(Asset)	\$	42,450,268		
Plan Fiduciary Net Position		36,233,337		
Net Pension Liability/(Asset)	\$	6,216,931		
Plan Fiduciary Net Position as a Percentage				
of Total Pension Liability		85.35%		
Net Pension Liability as a Percentage				
of Covered Valuation Payroll		81.44%		
Development of the Single Discount Rate as of December 31, 2015				
Long-Term Expected Rate of Investment Return		7.50%		
Long-Term Municipal Bond Rate*		3.57%		
Last year ending December 31 in the 2016 to 2115 projection period				
for which projected benefit payments are fully funded		2081		
Resulting Single Discount Rate based on the above development		7.46%		
Single Discount Rate calculated using December 31, 2014 Measurement Date		7.48%		
Total Pension Expense/(Income)	\$	1,833,848		

Deferred Outflows and Deferred Inflows of Resources by Source to be recognized in Future Pension Expenses

	Deferred Outflows of Resources		Deferred Inflows of Resources	
Difference between expected and actual experience	\$	301,411	\$	0
Changes in assumptions		698,961		0
Net difference between projected and actual earnings				
on pension plan investments		2,327,492		0
Total	\$	3,327,864	\$	0

*Source: "State & local bonds" rate from Federal Reserve statistical release (H.15) as of December 31, 2015.

The statistical release describes this rate as "Bond Buyer Index, general obligation, 20 years to maturity, mixed quality." In describing this index, the Bond Buyer notes that the bonds' average credit quality is roughly equivalent to Moody's Investors Service's Aa2 rating and Standard & Poor's Corp.'s AA.

DISCUSSION

Accounting Standard

For state and local government employers (as well as certain non-employers) that contribute to a Defined Benefit (DB) pension plan administered through a trust or equivalent arrangement, Governmental Accounting Standards Board (GASB) Statement No. 68 establishes standards for pension accounting and financial reporting. Under GASB Statement No. 68, the employer must account for and disclose the net pension liability, pension expense, and other information associated with providing retirement benefits to their employees (and former employees) on their basic financial statements.

The following discussion provides a summary of the information that is required to be disclosed under these accounting standards. A number of these disclosure items are provided in this report. However, certain information is not included in this report if it is not actuarial in nature, such as the notes to the financial statements regarding accounting policies and investments. As a result, the retirement system and/or plan sponsor is responsible for preparing and disclosing the non-actuarial information needed to comply with these accounting standards.

Financial Statements

GASB Statement No. 68 requires state and local government employers that contribute to DB pension plans to recognize the net pension liability and the pension expense on their financial statements, along with the related deferred outflows of resources and deferred inflows of resources. The net pension liability is the difference between the total pension liability and the plan's fiduciary net position. In traditional actuarial terms, this is analogous to the accrued liability less the market value of assets (not the smoothed actuarial value of assets that is often encountered in actuarial valuations performed to determine the employer's contribution requirement).

Paragraph 57 of GASB Statement No. 68 says, "Contributions to the pension plan from the employer subsequent to the measurement date of the collective net pension liability and before the end of the employer's reporting period should be reported as a deferred outflow of resources related to pensions." The information contained in this report does not incorporate any contributions made to IMRF subsequent to the measurement date of December 31, 2015.

The pension expense recognized each fiscal year is equal to the change in the net pension liability from the beginning of the year to the end of the year, adjusted for deferred recognition of the certain changes in the liability and investment experience.

Notes to Financial Statements

GASB Statement No. 68 requires the notes of the employer's financial statements to disclose the total pension expense, the pension plan's liabilities and assets, and deferred outflows of resources and inflows of resources related to pensions.

In addition, GASB Statement No. 68 requires the notes of the financial statements for the employers to include certain additional information, including (page numbers refer to page numbers from this report unless specified otherwise):

- a description of the types of benefits provided by the plan, as well as automatic or ad hoc COLAs (please see pages B-1 B-5 of the December 31, 2015 Annual Actuarial Valuation report dated April 1, 2016);
- the number and classes of employees covered by the benefit terms (page 1);
- for the current year, sources of changes in the net pension liability (page 10);
- significant assumptions and methods used to calculate the total pension liability (page 15);
- inputs to the single discount rate (page 16);
- certain information about mortality assumptions and the dates of experience studies (page 13 and page 15);
- the date of the valuation used to determine the total pension liability (page 1);
- information about changes of assumptions or other inputs and benefit terms (pages 13 and 15):
- the basis for determining contributions to the plan, including a description of the plan's funding policy, as well as member and employer contribution requirements (please see page A-3, B-5 and Section D of the December 31, 2015 Annual Actuarial Valuation report dated April 1, 2016, as well as page 13);
- the total pension liability, fiduciary net position, net pension liability, and the pension plan's fiduciary net position as a percentage of the total pension liability (page 10);
- the net pension liability using a discount rate that is 1% higher and 1% lower than used to calculate the total pension liability and net pension liability for financial reporting purposes (page 10); and
- a description of the system that administers the pension plan (to be provided by IMRF).

Required Supplementary Information

The financial statements of employers also include required supplementary information showing the 10-year fiscal history of:

- sources of changes in the net pension liability (page 11);
- information about the components of the net pension liability and related ratios, including the pension plan's fiduciary net position as a percentage of the total pension liability, and the net pension liability as a percent of covered-employee payroll (page 11); and
- comparison of actual employer contributions to the actuarially determined contributions based on the plan's funding policy (page 12).

These tables may be built prospectively as the information becomes available.

Timing of the Valuation

An actuarial valuation to determine the total pension liability is required to be performed at least every two years. For the employer's financial reporting purposes, the net pension liability and pension expense should be measured as of the employer's "measurement date" which may not be earlier than the employer's prior fiscal year-end date. If the actuarial valuation used to determine the total pension liability is not calculated as of the measurement date, the total pension liability is required to be rolled forward from the actuarial valuation date to the measurement date.

The total pension liability shown in this report is based on an actuarial valuation performed as of December 31, 2015 and a measurement date of December 31, 2015.

Single Discount Rate

Projected benefit payments are required to be discounted to their actuarial present values using a single discount rate that reflects: (1) a long-term expected rate of return on pension plan investments (to the extent that the plan's fiduciary net position is projected to be sufficient to pay benefits) and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the plan's projected fiduciary net position is not sufficient to pay benefits).

For the purpose of this valuation, the expected rate of return on pension plan investments is 7.50%; the municipal bond rate is 3.57% (based on the weekly rate closest to but not later than the measurement date of the "state & local bonds" rate from Federal Reserve statistical release (H.15)); and the resulting single discount rate is 7.46%.

OTHER OBSERVATIONS

General Implications of Contribution Allocation Procedure or Funding Policy on Future Expected Plan Contributions and Funded Status

Given the plan's contribution allocation procedure, if all actuarial assumptions are met (including the assumption of the plan earning 7.50% on the actuarial value of assets), it is expected that:

- (1) The employer normal cost as a percentage of pay will decrease to the level of Tier 2 normal cost as time passes as the majority of the active population will consist of Tier 2 members.
- (2) The unfunded liability will increase in dollar amount for several years before it begins to decrease.
- (3) The funded status of the plan will increase gradually towards a 100% funded ratio.

This funding policy results in a crossover date in 2081 and a discount rate of 7.46%. The projections in this report are strictly for the purposes of determining the GASB discount rate and are different from a funding projection for the ongoing plan.

Limitations of Assets as a Percent of Total Pension Liability Measurements

This report includes a measure of the plan fiduciary net position as a percent of total pension liability. Unless otherwise indicated, with regard to any such measurements presented in this report:

- (1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.
- (2) The measurement is inappropriate for assessing the need for or amount of future employer contributions.

Limitations of Funded Status Measurements

Unless otherwise indicated, a funded ratio measurement presented in this report is based upon the actuarial accrued liability and the market value of assets. Unless otherwise indicated, with regard to any funded status measurements presented in this report:

- (1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations, in other words of transferring the obligations to a unrelated third party in an arm's length market value type transaction.
- (2) The measurement is dependent upon the actuarial cost method which, in combination with the plan's amortization policy, affects the timing and amounts of future contributions. The amount of future contributions will most certainly differ from those assumed in this report due to future actual experience differing from assumed experience based upon actuarial assumptions. A funded ratio measurement in this report of 100% is not synonymous with no required future contributions. If the funded ratio were 100%, the plan would still require future normal cost contributions (i.e., contributions to cover the cost of the active membership accruing an additional year of service credit).

Limitation of Project Scope

Actuarial standards do not require the actuary to evaluate the ability of the plan sponsor or other contributing entity to make required contributions to the plan when due. Such an evaluation was not within the scope of this project and is not within the actuary's domain of expertise. Consequently, the actuary performed no such evaluation.



PENSION EXPENSE/(INCOME) UNDER GASB STATEMENT No. 68 CALENDAR YEAR ENDED DECEMBER 31, 2015

A. Expense/(Income)

1. Service Cost	\$ 869,695
2. Interest on the Total Pension Liability	2,969,300
3. Current-Period Benefit Changes	0
4. Employee Contributions (made negative for addition here)	(348,858)
5. Projected Earnings on Plan Investments (made negative for addition here)	(2,719,631)
6. Other Changes in Plan Fiduciary Net Position	(358,469)
7. Recognition of Outflow (Inflow) of Resources due to Liabilities	815,261
8. Recognition of Outflow (Inflow) of Resources due to Assets	606,550
9. Total Pension Expense/(Income)	\$ 1,833,848

STATEMENT OF OUTFLOWS AND INFLOWS ARISING FROM CURRENT REPORTING PERIOD

CALENDAR YEAR ENDED DECEMBER 31, 2015

A. Outflows (Inflows) of Resources due to Liabilities	
1. Difference between expected and actual experience	
of the Total Pension Liability (gains) or losses	\$ 265,732
2. Assumption Changes (gains) or losses	\$ 94,426
3. Recognition period for Liabilities: Average of the	
expected remaining service lives of all employees {in years}	3.0759
4. Outflow (Inflow) of Resources to be recognized in the current pension expense for the	
Difference between expected and actual experience	
of the Total Pension Liability	\$ 86,392
5. Outflow (Inflow) of Resources to be recognized in the current pension expense for	
Assumption Changes	\$ 30,699
6. Outflow (Inflow) of Resources to be recognized in the current pension expense	
due to Liabilities	\$ 117,091
7. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for the	
Difference between expected and actual experience	
of the Total Pension Liability	\$ 179,340
8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for	
Assumption Changes	\$ 63,727
9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	
due to Liabilities	\$ 243,067
B. Outflows (Inflows) of Resources due to Assets	
1. Net difference between projected and actual earnings on	
pension plan investments (gains) or losses	\$ 2,539,218
2. Recognition period for Assets {in years}	5.0000
3. Outflow (Inflow) of Resources to be recognized in the current pension expense	
due to Assets	\$ 507,844
4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	
due to Assets	\$ 2,031,374

^{*} Please note that employer contributions made after the measurement date have not been reported as deferred outflows of resources. These employer contributions must be separately accounted for by the employer.

Section B

STATEMENT OF OUTFLOWS AND INFLOWS ARISING FROM CURRENT AND PRIOR REPORTING PERIODS

CALENDAR YEAR ENDED DECEMBER 31, 2015

A. Outflows and Inflows of Resources due to Liabilities and Assets to be recognized in Current Pension Expense

	C	outflows	Infl	O WS	Ne	t Outflows
	of F	Resources	of Res	ources	of l	Resources
1. Due to Liabilities	\$	815,261	\$	0	\$	815,261
2. Due to Assets		606,550		0		606,550
3. Total	\$	1,421,811	\$	0	\$	1,421,811

B. Outflows and Inflows of Resources by Source to be recognized in Current Pension Expense

	Outflows	Inflows		Net Outflows
	of Resources	of Resources		of Resources
1. Differences between expected and actual experience \$	198,932	\$ 0	\$	198,932
2. Assumption changes	616,329	0)	616,329
3. Net difference between projected and actual				
earnings on pension plan investments	606,550		<u> </u>	606,550
4. Total \$	1,421,811	\$ 0	\$	1,421,811

C. Deferred Outflows and Deferred Inflows of Resources by Source to be recognized in Future Pension Expenses

	Deferred Outflows		Deferred Inflows		Net Deferred Outflows	
	of R	esources		of Resources		of Resources
1. Differences between expected and actual experience	\$	301,411	\$	0	\$	301,411
2. Assumption changes		698,961		0		698,961
3. Net difference between projected and actual						
earnings on pension plan investments		2,327,492		0_		2,327,492
4. Total	\$	3,327,864	\$	0	\$	3,327,864

D. Deferred Outflows and Deferred Inflows of Resources by Year to be recognized in Future Pension Expenses

Year Ending December 31	Net Deferred Outflo				
2016	\$	1,421,811			
2017		782,776			
2018		615,435			
2019		507,842			
2020		0			
Thereafter		0			
Total	\$	3,327,864			

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS CURRENT PERIOD

CALENDAR YEAR ENDED DECEMBER 31, 2015

A. Total pension liability		
1. Service Cost	\$	869,695
2. Interest on the Total Pension Liability		2,969,300
3. Changes of benefit terms		0
4. Difference between expected and actual experience of the Total Pension Liability		265,732
5. Changes of assumptions		94,426
6. Benefit payments, including refunds		
of employee contributions		(2,021,132)
7. Net change in total pension liability	\$	2,178,021
8. Total pension liability – beginning		40,272,247
9. Total pension liability – ending	\$	42,450,268
B. Plan fiduciary net position		
1. Contributions – employer	\$	896,167
2. Contributions – employee		348,858
3. Net investment income		180,413
4. Benefit payments, including refunds		
of employee contributions		(2,021,132)
5. Other (Net Transfer)		358,469
6. Net change in plan fiduciary net position	\$	(237,225)
7. Plan fiduciary net position – beginning	-	36,470,562
8. Plan fiduciary net position – ending	\$	36,233,337
C. Net pension liability/(asset)	\$	6,216,931
D. Plan fiduciary net position as a percentage		
of the total pension liability		85,35%
E. Covered Valuation payroll	\$	7,633,456
F. Net pension liability as a percentage		
of covered valuation payroll		81.44%

SENSITIVITY OF NET PENSION LIABILITY/(ASSET) TO THE SINGLE DISCOUNT RATE ASSUMPTION

	Current Single Discount					
	1% Decrease		Rate Assumption			1% Increase
		6,46%		7.46%		8.46%
Total Pension Liability	\$	47,564,998	\$	42,450,268	\$	38,198,326
Plan Fiduciary Net Position		36,233,337		36,233,337		36,233,337
Net Pension Liability/(Asset)	\$	11,331,661	\$	6,216,931	\$	1,964,989

MULTIYEAR SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS SCHEDULES OF REQUIRED SUPPLEMENTARY INFORMATION

Last 10 Calendar Years

(schedule to be built prospectively from 2014)

of Cowered Valuation Payroll	Net Pension Liability as a Percentage	Covered Valuation Payroll	of Total Pension Liability	Plan Fiduciary Net Position as a Percentage	Net Pension Liability/(Asset) - Ending (a) - (b)	Plan Fiduciary Net Position - Ending (b)	Plan Fiduciary Net Position - Beginning	Net Change in Plan Fiduciary Net Position	Other	Benefit Payments and Refunds	Pension Plan Net Investment Income	Employee Contributions	Employer Contributions	Plan Fiduciary Net Position	Total Pension Liability - Ending (a)	Total Pension Liability - Beginning	Net Change in Total Pension Liability	Benefit Payments and Refunds	Assumption Changes	Difference between Expected and Actual Experience	Benefit Changes	Interest on the Total Pension Liability	Service Cost	Total Pension Liability	Calendar year ending December 31,
81,44%		\$ 7,633,456 \$	85.35%		6,216,931	S 36,233,337 \$	36,470,562	(237,225)	358,469	(2,021,132)	180,413	348,858	S 896,167 \$		S 42,450,268 \$	40,272,247	2,178,021	(2,021,132)	94,426	265,732	0	2,969,300	S 869,695 S		2015
50.38 %		7,545,460	90.56 %		3,801,685	36,470,562	34,553,956	1,916,606	360,607	(1,798,506)	2,091,460	346,070	916,975		40,272,247	36,311,431	3,960,816	(1,798,506)	1,806,494	347,151	0	2,690,242	915,435		2014
																									2013
																									2012
																									2011
									***************************************																2010
																									2009
																									2008
																									2007
																									2006



MULTIYEAR SCHEDULE OF CONTRIBUTIONS

Last 10 Calendar Years

Ending I		Actuarially Determined		Actual	 ntribution eficiency		Covered Valuation	Actual Contribution as a % of
December 31,	_Cor	ntribution	_	Contribution	(Excess) Payre		Payroll	Covered Valuation Payroll
2014	\$	909,982		\$ 916,975	\$ (6,993)	\$	7,545,460	12.15%
2015		896,168	*	896,167	1		7,633,456	11.74%

^{*} Estimated based on contribution rate of 11.74% and covered valuation payroll of \$7,633,456. This number should be verified by the auditor.

NOTES TO SCHEDULE OF CONTRIBUTIONS

SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS USED IN THE CALCULATION OF THE 2015 CONTRIBUTION RATE*

Valuation Date:

Notes

Actuarially determined contribution rates are calculated as of December 31 each

year, which is 12 months prior to the beginning of the fiscal year in which

contributions are reported.

Methods and Assumptions Used to Determine 2015 Contribution Rates:

Actuarial Cost Method

Aggregate Entry Age Normal

Amortization Method

Level Percentage of Payroll, Closed

Remaining Amortization Period

Non-Taxing bodies: 10-year rolling period.

Taxing bodies (Regular, SLEP and ECO groups): 28-year closed period until

remaining period reaches 15 years (then 15-year rolling period).

Early Retirement Incentive Plan liabilities: a period up to 10 years selected by

the Employer upon adoption of ERI.

SLEP supplemental liabilities attributable to Public Act 94-712 were financed over 23 years for most employers (two employers were financed over 32 years).

Asset Valuation Method

5-Year smoothed market; 20% corridor

Wage growth

4.00%

Price Inflation

3.0% - approximate; No explicit price inflation assumption is used in this

valuation.

Salary Increases

4.40% to 16.00% including inflation

Investment Rate of Return

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Retirement Age

Experience-based table of rates that are specific to the type of eligibility

condition. Last updated for the 2011 valuation pursuant to an experience study

of the period 2008 - 2010.

Mortality

RP-2000 Combined Healthy Mortality Table, adjusted for mortality

improvements to 2020 using projection scale AA. For men 120% of the table rates were used. For women 92% of the table rates were used. For disabled lives, the mortality rates are the rates applicable to non-disabled lives set

forward 10 years.

Other Information:

Notes

There were no benefit changes during the year.

^{*} Based on Valuation Assumptions used in the December 31, 2013 actuarial valuation

DEVELOPMENT OF MARKET VALUE OF ASSETS

Market Value of Assets as of December 31, 2015

1. Employee Contribution Reserve (MDF Assets from IMRF)	\$ 6,604,269
2. Employer Contribution Reserve (EAF assets from IMRF)	8,876,911
3. Annuitant Reserve	20,746,231
4. Miscellaneous Adjustment*	 5,926
5. Net Market Value	\$ 36,233,337

^{*} Includes an adjustment factor of .000163582 on Items 1 through 4 to ensure that Market Value of Assets for all employers balances to the total Market Value of IMRF. Miscellaneous adjustments are due to various items such as suspended annuity reserve, disability benefit reserve, death benefit reserve, supplemental benefit reserve, employers with no assets, etc.

Section B Arlington Hgts SD 25

SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS USED IN THE CALCULATION OF THE TOTAL PENSION LIABILITY

Methods and Assumptions Used to Determine Total Pension Liability:

Actuarial Cost Method

Entry Age Normal

Asset Valuation Method

Market Value of Assets

Price Inflation

2.75%

Salary Increases

3.75% to 14.50%

Investment Rate of Return

7.46%

Retirement Age

Experience-based table of rates that are specific to the type of eligibility

condition, Last updated for the 2014 valuation pursuant to an experience study

of the period 2011-2013.

Mortality

For non-disabled retirees, an IMRF specific mortality table was used with fully generational projection scale MP-2014 (base year 2014). The IMRF specific rates were developed from the RP-2014 Blue Collar Health Annuitant Mortality Table with adjustments to match current IMRF experience. For disabled retirees, an IMRF specific mortality table was used with fully generational projection scale MP-2014 (base year 2014). The IMRF specific rates were developed from the RP-2014 Disabled Retirees Mortality Table applying the same adjustment that were applied for non-disabled lives. For active members, an IMRF specific mortality table was used with fully generational projection scale MP-2014 (base year 2014). The IMRF specific rates were developed from the RP-2014 Employee

Mortality Table with adjustments to match current IMRF experience.

Other Information:

Notes

There were no benefit changes during the year.

A detailed description of the actuarial assumptions and methods can be found in the December 31, 2015 Illinois Municipal Retirement Fund annual actuarial valuation report.



CALCULATION OF THE SINGLE DISCOUNT RATE

GASB Statement No. 68 includes a specific requirement for the discount rate that is used for the purpose of the measurement of the Total Pension Liability. This rate considers the ability of the fund to meet benefit obligations in the future. To make this determination, employer contributions, employee contributions, benefit payments, expenses and investment returns are projected into the future. The Plan Net Position (assets) in future years can then be determined and compared to its obligation to make benefit payments in those years. As long as assets are projected to be on hand in a future year, the assumed valuation discount rate is used. In years where assets are not projected to be sufficient to meet benefit payments, the use of a "risk-free" rate is required, as described in the following paragraph.

The Single Discount Rate (SDR) is equivalent to applying these two rates to the benefits that are projected to be paid during the different time periods. The SDR reflects (1) the long-term expected rate of return on pension plan investments (during the period in which the fiduciary net position is projected to be sufficient to pay benefits) and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating (which is published by the Federal Reserve) as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met).

For the purpose of this valuation, the expected rate of return on pension plan investments is 7.50%; the municipal bond rate is 3.57%; and the resulting single discount rate is 7.46%.

The tables in this section provide background for the development of the single discount rate.

The **Projection of Contributions** table shows the development of expected contributions in future years. Normal Cost contributions for future hires are not included (nor are their liabilities).

Expected Contributions are developed based on the following:

- Member Contributions for current members
- Normal Cost contributions for current members
- Unfunded Liability contributions for current and future members.

The Projection of Plan Fiduciary Net Position table shows the development of expected asset levels in future years.

The **Present Values of Projected Benefit Payments** table shows the development of the Single Discount Rate (SDR). It breaks down the benefit payments into present values for funded and unfunded portions and shows the equivalent total at the SDR.

SINGLE DISCOUNT RATE DEVELOPMENT PROJECTION OF CONTRIBUTIONS

Payroll for Year Current Employees		Contributions from Current Employees	nal Cost ibutions	UAL ributions	Total Contributions		
0	\$ 7,633,456						
1	7,546,673	\$ 339,600	\$ 523,610	\$ 349,341	\$	1,212,552	
2	7,053,257	317,397	478,151	343,756		1,139,304	
3	6,628,515	298,283	444,083	363,208		1,105,57	
4	6,226,016	280,171	417,736	384,098		1,082,00	
5	5,847,460	263,136	392,337	406,567		1,062,04	
6	5,494,465	247,251	367,560	430,776		1,045,58	
7	5,144,263	231,492	342,598	445,854		1,019,94	
8	4,818,091	216,814	319,437	461,458		997,71	
9	4,516,685	203,251	298,107	477,609		978,96	
10	4,228,895	190,300	277,850	494,326		962,47	
11	3,958,997	178,155	258,542	511,627		948,32	
12	3,705,325	166,740	240,870	529,534		937,14	
13	3,466,040	155,972	224,281	548,068		928,32	
14	3,240,338	145,815	208,387	538,635		892,83	
15	3,026,568	136,196	193,435	529,365		858,99	
16	2,823,584	127,061	179,620	520,254		826,93	
17	2,629,072	118,308	166,462	511,300		796,07	
18	2,444,607	110,007	153,809	502,500		766,31	
19	2,268,020	102,061	141,797	493,852		737,71	
20	2,077,090	93,469	128,827	485,352		707,64	
21	1,877,154	84,472	115,679	476,999		677,15	
22	1,691,920	76,136	103,591	468,790		648,51	
23	1,521,013	68,446	92,371	460,721		621,53	
24	1,373,694	61,816	82,604	452,792		597,21	
25	1,238,146	55,717	73,714	444,999		574,43	
26	1,106,927	49,812	65,352	437,340		552,50	
27	986,498	44,392	57,751	429,814		531,95	
28	879,107	39,560	51,027	422,416		513,00	
29	780,814	35,137	44,778	415,146		495,06	
30	698,230	31,420	39,417	408,001		478,83	
31	632,909	28,481	35,037	400,979		464,49	
32	570,725	25,683	30,857	394,078		450,61	
33	502,713	22,622	26,629	387,296		436,54	
34	432,731	19,473	22,578	380,630		422,68	
35	333,922	15,026	17,290	374,079		406,39	
36	218,233	9,821	11,343	367,641		388,80	
37	151,072	6,798	8,093	361,314		376,20	
38	108,791	4,896	5,958	355,095		365,94	
39	72,162	3,247	4,016	348,984		356,24	
40	57,126	2,571	3,316	342,977		348,86	
41	38,615	1,738	2,218	337,075		341,03	
42	20,427	919	1,196	331,273		333,38	
43	13,078	589	859	325,572		327,02	
44	9,015	406	627	319,968		321,00	
44	6,231	280	445	314,462		315,18	
45 46	4,309	280 194	311	309,049		309,55	
			194	303,730		304,04	
47 49	2,687	121		298,503		298,67	
48 49	1,500	68	10 7 61	298,303			
44	859	. 39	- 01	493,300		293,46	

SINGLE DISCOUNT RATE DEVELOPMENT PROJECTION OF CONTRIBUTIONS (CONCLUDED)

Year	Payroll for Current Employees	Contributions from Current Employees	Normal Cost Contributions	UAL Contributions	Total Contributions		
51	\$ 582	\$ 26	\$ 42	\$ 283,355	\$ 283,422		
52	479	22	34	278,478	278,533		
53	223	10	16	273,685	273,711		
54	0	0	0	268,975	268,975		
55	0	0	0	264,345	264,345		
56	0	0	0	259,796	259,796		
57	0	0	0	255,325	255,325		
58	0	0	0	250,930	250,930		
59	0	0	0	246,612	246,612		
60	0	0	0	242,367	242,367		
61	0	0	0	238,196	238,196		
62	0	0	0	234,096	234,096		
63	0	0	0	230,067	230,067		
64	0	0	0	226,108	226,108		
65	0	0	0	222,216	222,216		
66	0	0	0	218,392	218,392		
67	0	0	0	214,633	214,633		
68	0	0	0	210,939	210,939		
69	0	0	0	207,309	207,309		
70	0	0	0	203,741	203,741		
71	0	0	0	200,234	200,234		
72	0	0	0	196,788	196,788		
73	0	0	0	193,401	193,401		
74	0	0	0	190,073	190,073		
75	0	0	0	186,801	186,801		
76	0	0	0	183,586	183,586		
77	0	0	0	180,427	180,427		
78	0	0	0	177,321	177,321		
79	0	0	0	174,270	174,270		
80	0	0	0	171,270	171,270		
81	0	0	0	168,323	168,323		
82	0	0	0	165,426	165,426		
83	0	0	0	162,579	162,579		
84	0	0	0	159,780	159,780		
85	0	0	0	157,031	157,031		
86	0	0	0	154,328	154,328		
87	0	0	0	151,672	151,672		
88	0	0	0	149,061	149,061		
89	0	0	0	146,496	146,496		
90	0	0	0	143,975	143,975		
91	0	0	0	141,497	141,497		
92	0	0	0	139,061	139,061		
93	0	0	0	136,668	136,668		
94	0	0	0	134,316	134,316		
95	0	0	0	132,004	132,004		
96	0	0	0	129,732	129,732		
97	0	0	0	127,500	127,500		
98	0	0	0	125,305	125,305		
99	0	0	0	123,149	123,149		
100	0	0	0	121,029	121,029		
. –	ŭ	Ü	v	,	,027		

SINGLE DISCOUNT RATE DEVELOPMENT PROJECTION OF PLAN FIDUCIARY NET POSITION

Year	Projected Beginning Plan Net Position	Projected Total Contributions	Pı	rojected Benefit Payments	Ear	Projected Investment mings at 7.50%	F	Projected Ending Plan Net Position
	(a)	(b)		(c)		(d)		(e)=(a)+(b)-(c)+(d)
1	\$ 36,233,337	\$ 1,212,552	\$	2,177,716	\$	2,681,961	\$	37,950,133
2	37,950,133	1,139,304		2,329,496		2,802,435		39,562,376
3	39,562,376	1,105,574		2,482,517		2,916,476		41,101,909
4	41,101,909	1,082,005		2,673,648		3,024,036		42,534,301
5	42,534,301	1,062,040		2,843,012		3,124,494		43,877,823
6	43,877,823	1,045,587		3,027,017		3,217,876		45,114,269
7	45,114,269	1,019,943		3,211,670		3,302,866		46,225,408
8	46,225,408	997,710		3,368,342		3,379,614		47,234,389
9	47,234,389	978,967		3,517,328		3,449,111		48,145,140
10	48,145,140	962,476		3,683,802		3,510,681		48,934,495
11	48,934,495	948,324		3,825,299		3,564,151		49,621,672
12	49,621,672	937,144		3,961,412		3,610,266		50,207,670
13	50,207,670	928,321		4,089,081		3,649,189		50,696,099
14	50,696,099	892,837		4,209,726		3,680,073		51,059,283
15	51,059,283	858,996		4,324,194		3,701,850		51,295,935
16	51,295,935	826,935		4,430,849		3,714,492		51,406,513
17	51,406,513	796,070		4,523,937		3,718,221		51,396,867
18	51,396,867	766,317		4,608,571		3,713,285		51,267,898
19	51,267,898	737,710		4,683,957		3,699,783		51,021,433
20	51,021,433	707,648		4,780,379		3,676,641		50,625,343
21	50,625,343	677,150		4,867,507		3,642,603		50,077,590
22	50,077,590	648,517		4,930,250		3,598,157		49,394,014
23	49,394,014	621,538		4,979,730		3,544,073		48,579,895
24	48,579,895	597,212		5,005,218		3,481,180		47,653,070
25	47,653,070	574,430		5,010,326		3,410,641		46,627,816
26	46,627,816	552,504		5,004,182		3,333,166		45,509,303
27	45,509,303	531,957		4,982,896		3,249,305		44,307,669
28	44,307,669	513,003		4,954,877		3,159,516		43,025,311
29	43,025,311	495,061		4,912,048		3,064,256		41,672,580
30	41,672,580	478,839		4,841,528		2,964,800		40,274,691
31	40,274,691	464,497		4,757,448		2,862,526		38,844,266
32	38,844,266	450,617		4,668,079		2,758,024		37,384,828
33	37,384,828	436,547		4,576,611		2,651,416		35,896,181
34	35,896,181	422,681		4,486,551		2,542,573		34,374,884
35	34,374,884	406,395		4,418,741		2,430,373		32,792,912
36	32,792,912	388,805		4,347,490		2,313,701		31,147,928
37	31,147,928	376,204		4,224,825		2,194,380		29,493,688
38	29,493,688	365,948		4,096,516		2,074,659		27,837,779
39	27,837,779	356,247		3,954,433		1,955,341		26,194,934
40	26,194,934	348,864		3,793,479		1,837,782		24,588,102
41	24,588,102	341,031		3,642,099		1,722,555		23,009,589
42	23,009,589	333,388		3,487,301		1,609,586		21,465,261
43	21,465,261	327,020		3,322,538		1,499,593		19,969,336
43 44	19,969,336	321,001		3,159,027		1,393,198		18,524,508
44 45	18,524,508	321,001		2,997,152		1,290,583		17,133,126
43 46	17,133,126	309,555		2,838,594		1,191,860		15,795,947
				2,683,741				14,513,322
47	15,795,947	304,045				1,097,071		13,285,351
48 49	14,513,322	298,677		2,532,880		1,006,231		
	13,285,351	293,465		2,385,195		919,380		12,113,001 10,996,375
50	12,113,001	288,399		2,241,579		836,555		10,550,373

SINGLE DISCOUNT RATE DEVELOPMENT PROJECTION OF PLAN FIDUCIARY NET POSITION (CONCLUDED)

51 S 10,996,375 \$ 283,422 \$ 2,102,518 \$ 757,745 \$ 52 9,935,024 278,533 1,967,962 682,919 53 8,928,514 273,711 1,838,232 612,030 54 7,976,023 268,975 1,712,630 545,043 55 7,077,411 264,345 1,591,295 481,945 56 6,232,407 259,796 1,474,430 422,705 57 5,440,478 255,325 1,362,107 367,282 58 4,700,977 250,930 1,254,454 315,621 59 4,013,075 246,612 1,151,624 267,656 60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	(e)=(a)+(b)-(c)+(d) 9,935,024 8,928,514 7,976,023 7,077,411 6,232,407 5,440,478 4,700,977 4,013,075 3,375,718 2,787,598 2,247,164
52 9,935,024 278,533 1,967,962 682,919 53 8,928,514 273,711 1,838,232 612,030 54 7,976,023 268,975 1,712,630 545,043 55 7,077,411 264,345 1,591,295 481,945 56 6,232,407 259,796 1,474,430 422,705 57 5,440,478 255,325 1,362,107 367,282 58 4,700,977 250,930 1,254,454 315,621 59 4,013,075 246,612 1,151,624 267,656 60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	8,928,514 7,976,023 7,077,411 6,232,407 5,440,478 4,700,977 4,013,075 3,375,718 2,787,598
53 8,928,514 273,711 1,838,232 612,030 54 7,976,023 268,975 1,712,630 545,043 55 7,077,411 264,345 1,591,295 481,945 56 6,232,407 259,796 1,474,430 422,705 57 5,440,478 255,325 1,362,107 367,282 58 4,700,977 250,930 1,254,454 315,621 59 4,013,075 246,612 1,151,624 267,656 60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	7,976,023 7,077,411 6,232,407 5,440,478 4,700,977 4,013,075 3,375,718 2,787,598
54 7,976,023 268,975 1,712,630 545,043 55 7,077,411 264,345 1,591,295 481,945 56 6,232,407 259,796 1,474,430 422,705 57 5,440,478 255,325 1,362,107 367,282 58 4,700,977 250,930 1,254,454 315,621 59 4,013,075 246,612 1,151,624 267,656 60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	7,077,411 6,232,407 5,440,478 4,700,977 4,013,075 3,375,718 2,787,598
55 7,077,411 264,345 1,591,295 481,945 56 6,232,407 259,796 1,474,430 422,705 57 5,440,478 255,325 1,362,107 367,282 58 4,700,977 250,930 1,254,454 315,621 59 4,013,075 246,612 1,151,624 267,656 60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	6,232,407 5,440,478 4,700,977 4,013,075 3,375,718 2,787,598
56 6,232,407 259,796 1,474,430 422,705 57 5,440,478 255,325 1,362,107 367,282 58 4,700,977 250,930 1,254,454 315,621 59 4,013,075 246,612 1,151,624 267,656 60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	5,440,478 4,700,977 4,013,075 3,375,718 2,787,598
57 5,440,478 255,325 1,362,107 367,282 58 4,700,977 250,930 1,254,454 315,621 59 4,013,075 246,612 1,151,624 267,656 60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	4,700,977 4,013,075 3,375,718 2,787,598
58 4,700,977 250,930 1,254,454 315,621 59 4,013,075 246,612 1,151,624 267,656 60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	4,013,075 3,375,718 2,787,598
59 4,013,075 246,612 1,151,624 267,656 60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	3,375,718 2,787,598
60 3,375,718 242,367 1,053,789 223,301 61 2,787,598 238,196 961,082 182,452	2,787,598
61 2,787,598 238,196 961,082 182,452	
	2 247 164
	4,104
62 2,247,164 234,096 873,546 144,991	1,752,705
63 1,752,705 230,067 791,163 110,792	1,302,402
64 1,302,402 226,108 713,877 79,719	894,352
65 894,352 222,216 641,587 51,634	526,616
66 526,616 218,392 574,151 26,396	197,253
67 197,253 214,633 511,415 3,866	0
68 0 210,939 453,242 0	0
69 0 207,309 399,488 0	0
70 0 203,741 349,971 0	0
71 0 200,234 304,522 0	0
72 0 196,788 263,006 0	0
73 0 193,401 225,284 0	0
74 0 190,073 191,224 0	0
75 0 186,801 160,689 0	0
76 0 183,586 133,550 0	0
77 0 180,427 109,691 0 78 0 177,321 88,962 0	0
•	0
,	0
80 0 171,270 56,109 0 81 0 168,323 43,559 0	0
82 0 165,426 33,269 0	0
83 0 162,579 24,974 0	0
84 0 159,780 18,411 0	0
85 0 157,031 13,320 0	0
86 0 154,328 9,450 0	0
87 0 151,672 6,568 0	0
88 0 149,061 4,466 0	0
89 0 146,496 2,969 0	0
90 0 143,975 1,928 0	0
91 0 141,497 1,222 0	0
92 0 139,061 755 0	0
93 0 136,668 454 0	0
94 0 134,316 264 0	0
95 0 132,004 148 0	0
96 0 129,732 79 0	0
97 0 127,500 40 0	0
98 0 125,305 20 0	0
99 0 123,149 10 0	0
100 0 121,029 4 0	0

Section C

SINGLE DISCOUNT RATE DEVELOPMENT PRESENT VALUES OF PROJECTED BENEFITS

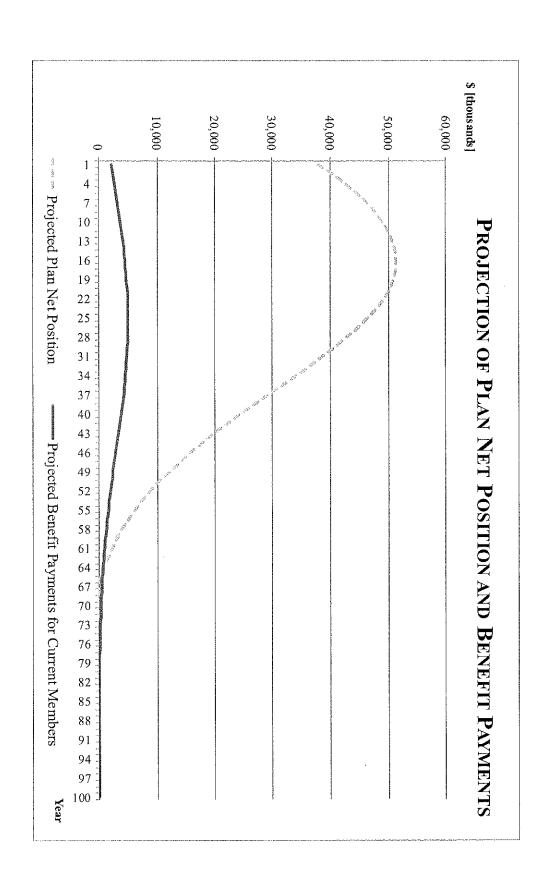
Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Benefit Payments	Unfunded Portion of Benefit Payments	Present Value of Funded Benefit Payments using Expected Return Rate (v)	Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf)	Present Value of Benefit Payments using Single Discount Rate (sdr)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*v^((a)5)	(g)=(c)*vf^((a)5)	(h)=((c)/(1+sdr)^(a5)
1	S 36,233,33	7 \$ 2,177,716	\$ 2,177,716	\$ 0	\$ 2,100,376	\$ 0	\$ 2,100,743
2	37,950,13	3 2,329,496	2,329,496	0	2,090,015	0	2,091,111
3	39,562,37	3 2,482,517	2,482,517	0	2,071,911	0	2,073,723
4	41,101,90	2,673,648	2,673,648	0	2,075,748	0	2,078,290
5	42,534,30	2,843,012	2,843,012	0	2,053,244	0	2,056,478
6	43,877,82	3,027,017	3,027,017	0	2,033,613	0	2,037,528
7	45,114,26	3,211,670	3,211,670	0	2,007,132	0	2,011,700
8	46,225,40	3,368,342	3,368,342	0	1,958,181	0	1,963,323
9	47,234,38	3,517,328	3,517,328	0	1,902,133	0	1,907,795
10	48,145,14	3,683,802	3,683,802	0	1,853,172	0	1,859,339
11	48,934,49	5 3,825,299	3,825,299	0	1,790,097	0	1,796,682
12	49,621,67	2 3,961,412	3,961,412	0	1,724,458	0	1,731,407
13	50,207,67	0 4,089,081	4,089,081	0	1,655,846	0	1,663,100
14	50,696,09	9 4,209,726	4,209,726	0	1,585,768	0	1,593,272
15	51,059,28	3 4,324,194	4,324,194	0	1,515,243	0	1,522,946
16	51,295,93	5 4,430,849	4,430,849	0	1,444,294	0	1,452,144
17	51,406,51		4,523,937	0	1,371,756	0	1,379,694
18	51,396,86		4,608,571	0	1,299,925	0	1,307,904
19	51,267,89		4,683,957	0	1,229,013	0	1,236,990
20	51,021,43		4,780,379	0	1,166,802	0	1,174,786
21	50,625,34		4,867,507	0	1,105,180	0	1,113,132
22	50,077,59		4,930,250	0	1,041,327	0	1,049,186
23	49,394,01		4,979,730	0	978,398	0	986,126
24	48,579,89		5,005,218	0	914,796	0	922,344
25	47,653,07		5,010,326	0	851,841	0	859,171
26	46,627,81		5,004,182	0	791,439	0	798,528
27	45,509,30		4,982,896	0	733,090	0	
28	44,307,66		4,954,877	0	678,110	0	
29	43,025,31		4,912,048	0	625,347	0	
30	41,672,58		4,841,528	0	573,367	0	
31	40,274,69		4,757,448	0	524,102	0	
32	38,844,26		4,668,079	0	478,378	0	
33	37,384,82		4,576,611	0	436,284	0	
34	35,896,18		4,486,551	0	397,859	0	
35	34,374,88		4,418,741	0	364,508	0	368,932
36	32,792,91		4,347,490	0	333,609	0	337,777
37	31,147,92		4,224,825	0	301,578	0	305,452
38	29,493,68		4,096,516	0	272,018	0	
39	27,837,77		3,954,433	0	244,263	0	
40	26,194,93		3,793,479	0	217,973	0	
41	24,588,10		3,642,099	0	194,674	0	
42	23,009,58		3,487,301	0	173,396	0	
43	21,465,26		3,322,538	0	153,677	0	
44	19,969,33		3,159,027	0	135,921	0	
45	18,524,50		2,997,152	0	119,959	0	
46	17,133,12		2,838,594	0	105,686	0	
47	15,795,94		2,683,741	0	92,950	0	
48	14,513,32		2,532,880	0	81,604	0	
49	13,285,35		2,385,195	0	71,485	0	
	1,402,41	. 4,000,173			/ 1,700	v	1001,00

Section C

SINGLE DISCOUNT RATE DEVELOPMENT PRESENT VALUES OF PROJECTED BENEFITS (CONCLUDED)

Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Benefit Payments	Unfunded Portion of Benefit Payments	Present Value of Funded Benefit Payments using Expected Return Rate (v)	Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf)	Present Value of Benefit Payments using Single Discount Rate (sdr)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*v^((a)5)	(g)=(e)*vf^((a)-,5)	(h)=((c)/(1+sdr)^(a-,5)
51	\$ 10,996,375	\$ 2,102,518	\$ 2,102,518	\$ 0	\$ 54,527	\$ 0	\$ 55,499
52	9,935,024	1,967,962	1,967,962	0	47,477	0	48,340
53	8,928,514	1,838,232	1,838,232	0	41,253	0	42,017
54	7,976,023	1,712,630	1,712,630	0	35,753	0	36,428
55	7,077,411	1,591,295	1,591,295	0	30,902	0	31,497
56	6,232,407	1,474,430	1,474,430	0	26,635	0	27,157
57	5,440,478	1,362,107	1,362,107	0	22,889	0	23,346
58	4,700,977	1,254,454	1,254,454	0	19,610	0	20,008
59	4,013,075	1,151,624	1,151,624	0	16,746	0	17,092
60	3,375,718	1,053,789	1,053,789	0	14,254	0	14,554
61	2,787,598	961,082	961,082	0	12,093	0	12,352
62	2,247,164	873,546	873,546	0	10,225	0	10,447
63	1,752,705	791,163	791,163	0	8,615	0	8,805
64	1,302,402	713,877	713,877	0	7,231	0	7,393
65	894,352	641,587	641,587	0	6,045	0	6,183
66	526,616	574,151	574,151	0	5,032	0	5,149
67				306,899	1,667	29,781	4,268
	197,253	511,415	204,516 0	Ÿ	0	42,466	3,520
68	0	453,242		453,242	0		
69	0	399,488	0	399,488		36,139	2,887
70	0	349,971	0	349,971	0	30,568	2,353
71	0	304,522	0	304,522	0	25,682	1,906
72	0	263,006	0	263,006	0	21,416	1,532
73	0	225,284	0	225,284	0	17,712	1,221
74	0	191,224	0	191,224	0	14,516	964
75	0	160,689	0	160,689	0	11,778	754
76	0	133,550	0	133,550	0	9,451	583
77	0	109,691	0	109,691	0	7,495	446
78	0	88,962	0	88,962	0	5,869	336
79	0	71,169	0	71,169	0	4,533	250
80	0	56,109	0	56,109	0	3,451	184
81	0	43,559	0	43,559	0	2,587	133
82	0	33,269	0	33,269	0	1,908	94
83	0	24,974	0	24,974	0	1,383	66
84	0	18,411	0	18,411	0	984	
85	0	13,320	0	13,320	0	687	30
86	0	9,450	0	9,450	0	471	
87	0	6,568	0	6,568	0	316	
88	0	4,466	0	4,466	0	207	8
89	0	2,969	0	2,969	0	133	
90	0	1,928	0	1,928	0	83	3
91	0	1,222	0	1,222	0	51	
92	. 0	755	0	755	0	31	
93	0	454	0	454	0	18	
94	0	264	0	264	0	10	
95	0	148	0	148	0	5	
96	0	79	0	79	0	3	0
97	0	40	0	40	0	1	0
98	0	20	0	20	0	1	0
99	0	10	0	10	0	0	0
	0	4	0	4	0	0	0

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SECTION DGLOSSARY OF TERMS

GLOSSARY OF TERMS

Actuarial Accrued Liability (AAL)

The AAL is the difference between the actuarial present value of all benefits and the actuarial value of future normal costs. The definition comes from the fundamental equation of funding which states that the present value of all benefits is the sum of the Actuarial Accrued Liability and the present value of future normal costs. The AAL may also be referred to as "accrued liability" or "actuarial liability."

Actuarial Assumptions

These assumptions are estimates of future experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and compensation increases. Actuarial assumptions are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (compensation increases, payroll growth, inflation and investment return) consist of an underlying real rate of return plus an assumption for a long-term average rate of inflation.

Accrued Service

Service credited under the system which was rendered before the date of the actuarial valuation.

Actuarial Equivalent

A single amount or series of amounts of equal actuarial value to another single amount or series of amounts, computed on the basis of appropriate actuarial assumptions.

Actuarial Cost Method

A mathematical budgeting procedure for allocating the dollar amount of the actuarial present value of the pension trust benefits between future normal cost and actuarial accrued liability. The actuarial cost method may also be referred to as the actuarial funding method.

Actuarial Gain (Loss)

The difference in liabilities between actual experience and expected experience during the period between two actuarial valuations is the gain (loss) on the accrued liabilities.

Actuarial Present Value (APV)

The amount of funds currently required to provide a payment or series of payments in the future. The present value is determined by discounting future payments at predetermined rates of interest and probabilities of payment.

Actuarial Valuation

The actuarial valuation report determines, as of the actuarial valuation date, the service cost, total pension liability, and related actuarial present value of projected benefit payments for pensions.

Actuarial Valuation Date

The date as of which an actuarial valuation is performed.

Actuarially Determined Contribution (ADC) or Annual Required Contribution (ARC) A calculated contribution into a defined benefit pension plan for the reporting period, most often determined based on the funding policy of the plan. Typically the Actuarially Determined Contribution has a normal cost payment and an amortization payment.

GLOSSARY OF TERMS (CONTINUED)

Amortization Payment

The amortization payment is the periodic payment required to pay off an interest-discounted amount with payments of interest and principal.

Amortization Method

The method used to determine the periodic amortization payment may be a level dollar amount, or a level percent of pay amount. The period will typically be expressed in years, and the method will either be "open" (meaning, reset each year) or "closed" (the number of years remaining will decline each year.

Cost-of-Living Adjustments

Postemployment benefit changes intended to adjust benefit payments for the effects of inflation.

Cost-Sharing Multiple-Employer Defined Benefit Pension Plan (cost-sharing pension plan) A multiple-employer defined benefit pension plan in which the pension obligations to the employees of more than one employer are pooled and pension plan assets can be used to pay the benefits of the employees of any employer that provides pensions through the pension plan.

Covered Valuation Payroll

The earnings of covered employees for the year ended on the valuation date, which is typically only the pensionable pay and does not include pay above any pay cap. It is not necessarily the same as payroll actually paid because it excludes all pay for people who exited during the year.

Deferred Inflows and Outflows

The deferred inflows and outflows of pension resources are amounts used under GASB Statement No. 68 in developing the annual pension expense. Deferred inflows and outflows arise with differences between expected and actual experiences; changes of assumptions. The portion of these amounts not included in pension expense should be included in the deferred inflows or outflows of resources.

Discount Rate

For GASB purposes, the discount rate is the single rate of return that results in the present value of all projected benefit payments to be equal to the sum of the funded and unfunded projected benefit payments, specifically:

- 1. The benefit payments to be made while the pension plans' fiduciary net position is projected to be greater than the benefit payments that are projected to be made in the period; and
- 2. The present value of the benefit payments not in (1) above, discounted using the municipal bond rate.

Entry Age Actuarial Cost Method (EAN) The EAN is a funding method for allocating the costs of the plan between the normal cost and the accrued liability. The actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis (either level dollar or level percent of pay) over the earnings or service of the individual between entry age and assumed exit ages(s). The portion of the actuarial present value allocated to a valuation year is the normal cost. The portion of this actuarial present value not provided for at a valuation date by the actuarial present value of future normal costs is the actuarial accrued liability. The sum of the accrued liability plus the present value of all future normal costs is the present value of all benefits.

GLOSSARY OF TERMS (CONTINUED)

GASB

The Governmental Accounting Standards Board is an organization that exists in order to promulgate accounting standards for governmental entities.

Fiduciary Net Position

The fiduciary net position is the value of the assets of the trust.

Long-Term Expected Rate of Return

The long-term rate of return is the expected return to be earned over the entire trust portfolio based on the asset allocation of the portfolio.

Money-Weighted Rate of Return The money-weighted rate of return is a method of calculating the returns that adjusts for the changing amounts actually invested. For purposes of GASB Statement No. 68, money-weighted rate of return is calculated as the internal rate of return on pension plan investments, net of pension plan investment expense.

Multiple-Employer Defined Benefit Pension Plan A multiple-employer plan is a defined benefit pension plan that is used to provide pensions to the employees of more than one employer.

Municipal Bond Rate

The Municipal Bond Rate is the discount rate to be used for those benefit payments that occur after the assets of the trust have been depleted.

Net Pension Liability (NPL)

The NPL is the liability of employers and non-employer contribution entities to plan members for benefits provided through a defined benefit pension plan.

Non-Employer Contribution Entities Non-employer contribution entities are entities that make contributions to a pension plan that is used to provide pensions to the employees of other entities. For purposes of the GASB Accounting statement plan members are not considered non-employer contribution entities.

Normal Cost

The actuarial present value of the pension trust benefits allocated to the current year by the actuarial cost method.

Other Postemployment Benefits (OPEB)

All postemployment benefits other than retirement income (such as death benefits, life insurance, disability, and long-term care) that are provided separately from a pension plan, as well as postemployment healthcare benefits regardless of the manner in which they are provided. Other postemployment benefits do not include termination benefits.

Real Rate of Return

The real rate of return is the rate of return on an investment after adjustment to eliminate inflation.

Service Cost

The service cost is the portion of the actuarial present value of projected benefit payments that is attributed to a valuation year.

GLOSSARY OF TERMS (CONCLUDED)

Total Pension Expense

The total pension expense is the sum of the following items that are recognized at the end of the employer's fiscal year:

- 1. Service Cost;
- 2. Interest on the Total Pension Liability;
- 3. Current-Period Benefit Changes;
- 4. Employee Contributions (made negative for addition here);
- 5. Projected Earnings on Plan Investments (made negative for addition here);
- 6. Pension Plan Administrative Expense;
- 7. Other Changes in Plan Fiduciary Net Position;
- 8. Recognition of Outflow (Inflow) of Resources due to Liabilities; and
- 9. Recognition of Outflow (Inflow) of Resources due to Assets.

Total Pension Liability (TPL)

The TPL is the portion of the actuarial present value of projected benefit payments that is attributed to past periods of member service.

Unfunded Actuarial Accrued Liability (UAAL)

The UAAL is the difference between actuarial accrued liability and valuation assets.

Valuation Assets

The valuation assets are the assets used in determining the unfunded liability of the plan. For purposes of the GASB Statement No. 68, the valuation asset is equal to the market value of assets.