Alsip Elementary SD 126 Regular

GASB Statement No. 68 Employer Reporting Accounting Schedules
December 31, 2017



Table of Contents

Page

Certification Letter

Section A	Executive Summary	
	Executive Summary	1
	Discussion	. 2 - 4
	Other Observations	. 5 - 6
Section B	Financial Statements	
	Pension Expense/(Income) under GASB Statement No. 68	7
	Statement of Outflows and Inflows Arising from Current Period	8
	Statement of Outflows and Inflows Arising from Current and Prior Periods	
	Schedule of Changes in Net Pension Liability and Related Ratios Current Period	10
	Sensitivity of Net Pension Liability/(Asset) to the Single Discount Rate Assumption	
	Multiyear Schedule of Changes in Net Pension Liability and Related Ratios	11
	Multiyear Schedule of Contributions	
	Notes to Schedule of Contributions	13
	Development of Market Value of Assets	14
	Schedule of Contributions	14
	Summary of Actuarial Methods and Assumptions used in the Calculation of the	
	Total Pension Liability	15
Section C	Calculation of the Single Discount Rate	
	Calculation of the Single Discount Rate	16
	Projection of Contributions1	7 - 18
	Projection of Plan Fiduciary Net Position19	9 - 20
	Present Values of Projected Benefits2	1 - 22
	Projection of Plan Net Position and Benefit Payments	23
Section D	Glossary of Terms	4 - 27





April 6, 2018

Alsip Elementary SD 126
Illinois Municipal Retirement Fund

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 fund'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 Alsip Elementary SD 126 only in its entirety and only with the permission of Alsip Elementary SD 126. GRS is not responsible for unauthorized use of this report.

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 audited.

This report complements the actuarial valuation report that was provided to the Illinois Municipal Retirement Fund and should be considered in conjunction with that report. Please see the actuarial valuation report as of December 31, 2017 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 related to Alsip Elementary SD 126. 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,

Mark Buis, FSA, EA, FCA, MAAA

Francois Pieterse, ASA, FCA, MAAA

SECTION A

EXECUTIVE SUMMARY

Executive Summary as of December 31, 2017

Actuarial Valuation Date	December 31, 2017		
Measurement Date of the Net Pension Liability	December 31, 2017		
Fiscal Year End	Ju	ine 30, 2018	
Membership			
Number of			
- Retirees and Beneficiaries		254	
- Inactive, Non-Retired Members		151	
- Active Members		85	
- Total		490	
Covered Valuation Payroll ⁽¹⁾	\$	2,272,309	
Net Pension Liability			
Total Pension Liability/(Asset)	\$	16,042,811	
Plan Fiduciary Net Position		18,172,667	
Net Pension Liability/(Asset)	\$	(2,129,856)	
Plan Fiduciary Net Position as a Percentage			
of Total Pension Liability		113.28%	
Net Pension Liability as a Percentage			
of Covered Valuation Payroll		(93.73)%	
Development of the Single Discount Rate as of December 31, 2017			
Long-Term Expected Rate of Investment Return		7.50%	
Long-Term Municipal Bond Rate ⁽²⁾		3.31%	
Last year ending December 31 in the 2018 to 2117 projection period			
for which projected benefit payments are fully funded		2117	
Resulting Single Discount Rate based on the above development		7.50%	
Single Discount Rate calculated using December 31, 2016 Measurement Date		7.50%	
Total Pension Expense/(Income)	\$	148,865	

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

	 red Outflows Resources	 Resources
Difference between expected and actual experience	\$ 78,035	\$ 0
Changes in assumptions	0	207,798
Net difference between projected and actual earnings		
on pension plan investments	 516,035	1,444,355
Total	\$ 594,070	\$ 1,652,153

⁽¹⁾ Does not necessarily represent Covered Employee Payroll as defined in GASB Statement Nos. 67-68.

Fixed-income municipal bonds with 20 years to maturity that include only federally tax-exempt municipal bonds as reported in Fidelity Index's "20-Year Municipal GO AA Index" as of December 29, 2017. In describing this index, Fidelity notes that the municipal curves are constructed using option-adjusted analytics of a diverse population of over 10,000 tax exempt securities.



⁽²⁾ Source:

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 fund 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, 2017.

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, 2017 Annual Actuarial Valuation report dated March 22, 2018);
- 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, 2017 Annual Actuarial Valuation report dated March 22, 2018, 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 fund 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, 2017 and a measurement date of December 31, 2017.

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 3.31% (based on the daily rate closest to but not later than the measurement date of the "20-Bond Go Index" described on page 1 and the resulting Single Discount Rate is 7.50%.



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 2117 and a discount rate of 7.50%. 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.



SECTION B

FINANCIAL STATEMENTS

Pension Expense/(Income) Under GASB Statement No. 68 Calendar Year Ended December 31, 2017

A. Expense/(Income)

1. Service Cost	\$ 262,282
2. Interest on the Total Pension Liability	1,170,875
3. Current-Period Benefit Changes	0
4. Employee Contributions (made negative for addition here)	(107,627)
5. Projected Earnings on Plan Investments (made negative for addition here)	(1,179,098)
6. Other Changes in Plan Fiduciary Net Position	347,952
7. Recognition of Outflow (Inflow) of Resources due to Liabilities	(250,611)
8. Recognition of Outflow (Inflow) of Resources due to Assets	 (94,908)
9. Total Pension Expense/(Income)	\$ 148,865



Statement of Outflows and Inflows Arising from Current Reporting Period Calendar Year Ended December 31, 2017

1. Difference between expected and actual experience of the Total Pension Liability (gains) or losses 2. Assumption Changes (gains) or losses 3. Recognition period for Liabilities: Average of the expected remaining service lives of all employees {in years} 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 5. Outflow (inflow) of Resources to be recognized in the current pension expense for Assumption Changes 6. Outflow (inflow) of Resources to be recognized in the current pension expense due to Liabilities 7. Deferred Outflow (inflow) of Resources to be recognized in the turrent pension expenses for the Difference between expected and actual experience of the Total Pension Liability 8. Deferred Outflow (inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (inflow) of Resources to be recognized in future pension expenses for Assumption Changes 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (inflow) of Resources to be recognized in future pension expense due to Assets 4. Deferred Outflow (inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (inflow) of Resources to be recognized in future pension expense due to Assets 4. Deferred Outflow (inflow) of Resources to be recognized in future pension expense	A. Outflows (Inflows) of Resources due to Liabilities	
2. Assumption Changes (gains) or losses 3. Recognition period for Liabilities: Average of the expected remaining service lives of all employees {in years} 1.6570 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 \$ 118,774 5. Outflow (Inflow) of Resources to be recognized in the current pension expense for Assumption Changes \$ (316,284) 6. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Liabilities \$ (197,510) 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 \$ 78,035 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes \$ (207,798) 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes \$ (207,798) 8. Deterred Outflow (Inflow) of Resources to be recognized in future pension expenses for the Difference between expected and actual earnings on pension plan investments (gains) or losses \$ (1,805,444) 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 \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	1. Difference between expected and actual experience	
3. Recognition period for Liabilities: Average of the expected remaining service lives of all employees {in years} 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 5. Outflow (Inflow) of Resources to be recognized in the current pension expense for Assumption Changes 6. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Liabilities 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 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities \$ (207,798) B. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in the current pension expense	of the Total Pension Liability (gains) or losses	\$ 196,809
expected remaining service lives of all employees {in years} 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 \$ 118,774 5. Outflow (Inflow) of Resources to be recognized in the current pension expense for Assumption Changes \$ (316,284) 6. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Liabilities \$ (197,510) 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 \$ 78,035 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes \$ (207,798) 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities \$ (129,763) B. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses \$ (1,805,444) 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 \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	2. Assumption Changes (gains) or losses	\$ (524,082)
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 5. Outflow (Inflow) of Resources to be recognized in the current pension expense for Assumption Changes 6. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Liabilities 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 78,035 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities (207,798) 8. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expense	3. Recognition period for Liabilities: Average of the	
Difference between expected and actual experience of the Total Pension Liability \$ 118,774 5. Outflow (Inflow) of Resources to be recognized in the current pension expense for Assumption Changes \$ (316,284) 6. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Liabilities \$ (197,510) 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 \$ 78,035 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes \$ (207,798) 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities \$ (129,763) 8. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses \$ (1,805,444) 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 \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	expected remaining service lives of all employees {in years}	1.6570
of the Total Pension Liability 5. Outflow (Inflow) of Resources to be recognized in the current pension expense for Assumption Changes 6. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Liabilities 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 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities 8. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets (in years) 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	4. Outflow (Inflow) of Resources to be recognized in the current pension expense for the	
5. Outflow (Inflow) of Resources to be recognized in the current pension expense for Assumption Changes 6. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Liabilities 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 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities 7. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities 8. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	Difference between expected and actual experience	
Assumption Changes 6. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Liabilities 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 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities \$ (129,763) B. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses \$ (1,805,444) 2. Recognition period for Assets (in years) 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	of the Total Pension Liability	\$ 118,774
6. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Liabilities 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 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities 8. Outflows (Inflows) of Resources to be recognized in future pension expenses due to Liabilities 8. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	5. Outflow (Inflow) of Resources to be recognized in the current pension expense for	
due to Liabilities 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 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities 7. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	Assumption Changes	\$ (316,284)
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 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities 7. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities 8. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 9. Recognition period for Assets (in years) 9. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 9. (1,805,444) 9. (1,805,444) 9. Recognition period for Assets (in years) 9. (1,805,444) 9. (1,805,444) 9. (1,805,444) 9. (1,805,444) 9. (1,805,444) 9. (1,805,444) 9. (1,805,444) 9. (1,805,444)	6. Outflow (Inflow) of Resources to be recognized in the current pension expense	
Difference between expected and actual experience of the Total Pension Liability 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities 5. (129,763) B. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	due to Liabilities	\$ (197,510)
of the Total Pension Liability 8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities 5. (129,763) 8. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	7. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for the	
8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for Assumption Changes \$ (207,798) 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities \$ (129,763) B. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses \$ (1,805,444) 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 \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	Difference between expected and actual experience	
Assumption Changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities \$ (129,763) B. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	of the Total Pension Liability	\$ 78,035
9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to Liabilities \$ (129,763) B. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses \$ (1,805,444) 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 \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for	
due to Liabilities \$ (129,763) B. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses \$ (1,805,444) 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 \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	Assumption Changes	\$ (207,798)
B. Outflows (Inflows) of Resources due to Assets 1. Net difference between projected and actual earnings on pension plan investments (gains) or losses \$ (1,805,444) 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 \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	
1. Net difference between projected and actual earnings on pension plan investments (gains) or losses \$ (1,805,444) 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 \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	due to Liabilities	\$ (129,763)
pension plan investments (gains) or losses \$ (1,805,444) 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 \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	B. Outflows (Inflows) of Resources due to Assets	
2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	1. Net difference between projected and actual earnings on	
3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to Assets \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	pension plan investments (gains) or losses	\$ (1,805,444)
due to Assets \$ (361,089) 4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	2. Recognition period for Assets {in years}	5.0000
4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	3. Outflow (Inflow) of Resources to be recognized in the current pension expense	
	due to Assets	\$ (361,089)
due to Assets \$ (1,444,355)	4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	
	due to Assets	\$ (1,444,355)

^{*} 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.



Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods Calendar Year Ended December 31, 2017

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

		Outflows		Inflows		Net Outflows		
		of	Resources	of Resources				
1. Due to Liabilities	\$	118,774	\$	369,385	\$	(250,611)		
2. Due to Assets		266,181		361,089		(94,908)		
3. Total	\$	384,955	\$	730,474	\$	(345,519)		

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

	Outflows			Inflows		Net Outflows
	of l	Resources	of Resources		of Resources	
1. Differences between expected and actual experience	\$	118,774	\$	35,573	\$	83,201
2. Assumption changes		0		333,812	\$	(333,812)
3. Net difference between projected and actual						
earnings on pension plan investments		266,181		361,089		(94,908)
4. Total	\$	384,955	\$	730,474	\$	(345,519)

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

	Deferred Outflows of Resources		Deferred Inflows of Resources		Net Deferred Outflows of Resources	
1. Differences between expected and actual experience	\$	78,035	\$	0	\$	78,035
2. Assumption changes		0		207,798	\$	(207,798)
3. Net difference between projected and actual						
earnings on pension plan investments		516,035		1,444,355		(928,320)
4. Total	\$	594,070	\$	1,652,153	\$	(1,058,083)

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

Year Ending December 31	Net Deferred Outflows of Resources			
2018	\$	(224,670)		
2019		(135,004)		
2020		(337,321)		
2021		(361,088)		
2022		0		
Thereafter		0		
Total	Ś	(1.058.083)		



Schedule of Changes in Net Pension Liability and Related Ratios Current Period Calendar Year Ended December 31, 2017

A. Total pension liability	
1. Service Cost	\$ 262,282
2. Interest on the Total Pension Liability	1,170,875
3. Changes of benefit terms	0
 Difference between expected and actual experience of the Total Pension Liability 	196,809
5. Changes of assumptions	(524,082)
6. Benefit payments, including refunds	
of employee contributions	(1,087,184)
7. Net change in total pension liability	\$ 18,700
8. Total pension liability – beginning	16,024,111
9. Total pension liability – ending	\$ 16,042,811
B. Plan fiduciary net position	
1. Contributions – employer	\$ 261,145
2. Contributions – employee	107,627
3. Net investment income	2,984,542
4. Benefit payments, including refunds	
of employee contributions	(1,087,184)
5. Other (Net Transfer)	 (347,952)
6. Net change in plan fiduciary net position	\$ 1,918,178
7. Plan fiduciary net position – beginning	 16,254,489
8. Plan fiduciary net position – ending	\$ 18,172,667
C. Net pension liability/(asset)	\$ (2,129,856)
D. Plan fiduciary net position as a percentage	
of the total pension liability	113.28%
E. Covered Valuation payroll	\$ 2,272,309
F. Net pension liability as a percentage	
of covered valuation payroll	(93.73)%

Sensitivity of Net Pension Liability/(Asset) to the Single Discount Rate Assumption

Current Single Discount Rate Assumption 1% Decrease 1% Increase 6.50% 7.50% 8.50% Total Pension Liability \$ \$ 16,042,811 \$ 14,625,428 17,738,599 Plan Fiduciary Net Position 18,172,667 18,172,667 18,172,667 Net Pension Liability/(Asset) \$ (434,068) (2,129,856) (3,547,239)



Schedules of Required Supplementary Information Multiyear Schedule of Changes in Net Pension Liability and Related Ratios

Last 10 Calendar Years

(schedule to be built prospectively from 2014)

Calendar year ending December 31,	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Total Pension Liability										
Service Cost	\$ 262,282	\$ 265,102	\$ 243,747	\$ 245,612						
Interest on the Total Pension Liability	1,170,875	1,150,341	1,117,228	1,048,075						
Benefit Changes	0	0	0	0						
Difference between Expected and Actual Experience	196,809	(100,251)	75,801	(9,337)						
Assumption Changes	(524,082)	(49,397)	32,898	619,422						
Benefit Payments and Refunds	(1,087,184)	(1,017,226)	(977,052)	(944,746)						
Net Change in Total Pension Liability	18,700	248,569	492,622	959,026						
Total Pension Liability - Beginning	16,024,111	15,775,542	15,282,920	14,323,894						
Total Pension Liability - Ending (a)	\$ 16,042,811	\$ 16,024,111	\$ 15,775,542	\$ 15,282,920						
Plan Fiduciary Net Position										
Employer Contributions	\$ 261,145	\$ 1,762,661	\$ 272,182	\$ 253,324						
Employee Contributions	107,627	101,156	101,091	91,631						
Pension Plan Net Investment Income	2,984,542	989,570	71,843	853,732						
Benefit Payments and Refunds	(1,087,184)	(1,017,226)	(977,052)	(944,746)						
Other	(347,952)	125,546	154,278	121,005						
Net Change in Plan Fiduciary Net Position	1,918,178	1,961,707	(377,658)	374,946						
Plan Fiduciary Net Position - Beginning	16,254,489	14,292,782	14,670,440	14,295,494						
Plan Fiduciary Net Position - Ending (b)	\$ 18,172,667	\$ 16,254,489	\$ 14,292,782	\$ 14,670,440						
Net Pension Liability/(Asset) - Ending (a) - (b)	(2,129,856)	(230,378)	1,482,760	612,480						
Plan Fiduciary Net Position as a Percentage										
of Total Pension Liability	113.28%	101.44%	90.60%	95.99%						
Covered Valuation Payroll	\$ 2,272,309	\$ 2,246,879	\$ 2,240,192	\$ 2,066,746						
Net Pension Liability as a Percentage										
of Covered Valuation Payroll	(93.73)%	(10.25)%	66.19%	29.63%						



Multiyear Schedule of Contributions

Last 10 Calendar Years

Calendar Year Ending December 31,	De	ctuarially termined ntribution	Co	Actual Contribution		Contribution Deficiency (Excess)		Covered Valuation Payroll	Actual Contribution as a % of Covered Valuation Payroll
2014	\$	281,284	\$	253,324	\$	27,960	\$	2,066,746	12.26%
2015		272,183		272,182		1		2,240,192	12.15%
2016		262,660		1,762,661		(1,500,001)		2,246,879	78.45%
2017		247,227	*	261,145		(13,918)		2,272,309	11.49%

^{*} Estimated based on contribution rate of 10.88% and covered valuation payroll of \$2,272,309.



Notes to Schedule of Contributions

Summary of Actuarial Methods and Assumptions Used in the Calculation of the 2017 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 2017 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): 26-year closed 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 21 years for most employers (two employers were financed over 30

years).

Asset Valuation Method 5-Year smoothed market; 20% corridor

Wage growth 3.50%

Price Inflation 2.75% -- approximate; No explicit price inflation assumption is used in this

valuation.

Salary Increases 3.75% to 14.50% including inflation

Investment Rate of Return 7.50%

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 2012). 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 2012). 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 2012). 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.



^{*} Based on Valuation Assumptions used in the December 31, 2015 actuarial valuation

Development of Market Value of Assets

Market Value of Assets as of December 31, 2017

5. Net Market Value	\$ 18,172,667
4. Miscellaneous Adjustment*	\$ (1,492)
3. Annuitant Reserve	\$ 10,889,022
2. Employer Contribution Reserve (EAF assets from IMRF)	\$ 5,666,847
1. Employee Contribution Reserve (MDF Assets from IMRF)	\$ 1,618,290

^{*} Includes an adjustment factor of (0.0000820765) on Items 1 through 3 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.

Schedule of Contributions

Total Contributions

1. Employer	
a.) Wage Reporting	\$ 247,227
b.) Accelerated payments and Reserve Payments	 13,918
	\$ 261,145
2. Member	
a.) Wage Reporting	\$ 102,254
b.) Member Payments (i.e. ERI, Pension Payments)	 5,373
Sub-total (Amount used for valuation on Schedule of Changes Page 10)	\$ 107,627
c.) Voluntary Additional Plan	\$ 5,412
Total Member Contributions (a+b+c)	\$ 113,039
Total Employer and Member Contributions (1+2)	\$ 374,184



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 2.50%

Salary Increases 3.39% to 14.25%

Investment Rate of Return 7.50%

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

condition. Last updated for the 2017 valuation pursuant to an experience

study of the period 2014-2016.

Mortality For non-disabled retirees, an IMRF specific mortality table was used with

fully generational projection scale MP-2017 (base year 2015). 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-2017 (base year 2015). 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-2017 (base year 2015). 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, 2017 Illinois Municipal Retirement Fund annual actuarial valuation report.





CALCULATION OF THE SINGLE DISCOUNT RATE

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 3.31%; and the resulting single discount rate is 7.50%.

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

Year	Payroll for Current Employees	Contributions from Current Employees	Normal Cost Contributions	UAL Contributions	Total Contributions
2017	\$ 2,272,309				
2018	2,216,858	\$ 99,759	\$ 146,217	\$ (75,978)	\$ 169,997
2019	2,044,772	92,015	111,978	(96,403)	107,590
2020	1,899,902	85,496	103,298	(103,298)	85,496
2021	1,775,310	79,889	96,698	(96,698)	79,889
2022	1,666,770	75,005	90,623	(90,623)	75,004
2023	1,568,905	70,601	84,994	(84,994)	70,600
2024	1,481,031	66,646	79,797	(79,797)	66,646
2025	1,395,304	62,789	74,630	(74,630)	62,789
2026	1,313,715	59,117	69,750	(69,750)	59,117
2027	1,239,330	55,770	65,192	(65,192)	55,770
2028	1,169,321	52,619	60,935	(60,935)	52,620
2029	1,106,222	49,780	57,104	(57,104)	49,780
2030	1,048,344	47,176	53,602	(53,602)	47,175
2031	996,638	44,849	50,567	(50,567)	44,848
2032	946,873	42,609	47,670	(47,670)	42,609
2033	894,784	40,265	44,696	(44,696)	40,265
2034	843,158	37,942	41,786	(41,786)	37,942
2035	791,422	35,614	38,911	(38,911)	35,614
2036	743,158	33,442	36,246	(36,246)	33,442
2037	695,365	31,291	33,642	(33,642)	31,292
2038	647,391	29,133	31,067	(31,067)	29,132
2039	600,469	27,021	28,579	(28,579)	27,021
2040	555,694	25,006	26,175	(26,175)	25,007
2041	513,421	23,104	23,882	(23,882)	23,104
2042	469,463	21,126	21,514	(21,514)	21,126
2043	423,414	19,054	19,113	(19,113)	19,054
2044	377,476	16,986	16,854	(16,854)	16,986
2045	336,646	15,149	14,833	(14,833)	15,149
2046	297,232	13,375	12,892	(12,892)	13,375
2047	253,487	11,407	10,820	(10,820)	11,407
2048	206,067	9,273	8,715	(8,715)	9,273
2049	157,488	7,087	6,645	(6,645)	7,087
2050	110,142	4,956	4,647	(4,647)	4,957
2051	75,593	3,402	3,227	(3,227)	3,401
2052	49,999	2,250	2,164	(2,164)	2,250
2053	25,940	1,167	1,148	(1,148)	1,167
2054	13,254	596	646	(646)	597
2055	8,371	377	462	(462)	376
2056	6,095	274	355	(355)	274
2057	4,545	205	275	(275)	204
2058	3,436	155	208	(208)	154
2059	2,377	107	143	(143)	107
2060	1,476	66	90	(90)	67
2061	1,123	51	69	(69)	51
2062	885	40	54	(54)	40
2063	518	23	32	(32)	24
2064	125	6	7	(7)	6
2065	0	0	0	0	0
2066	0	0	0	0	0
2066	0	0	0	0	0
2007	U	U	U	U	Ü



Single Discount Rate Development Projection of Contributions (Concluded)

	Payroll for Current	Contributions from	Normal Cost	UAL	
Year	Employees	Current Employees	Contributions	Contributions	Total Contributions
2068	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2069	0	0	0	0	0
2070	0	0	0	0	0
2071	0	0	0	0	0
2072	0	0	0	0	0
2073	0	0	0	0	0
2074	0	0	0	0	0
2075	0	0	0	0	0
2076	0	0	0	0	0
2077	0	0	0	0	0
2078 2079	0	0	0	0	0
2079	0	0	0	0	0
	0	0	0	0	0
2081 2082	0	0	0	0	0
2082	0	0	0	0	0
2083	0	0	0	0	0
2085	0	0	0	0	0
2086	0	0	0	0	0
2087	0	0	0	0	0
2088	0	0	0	0	0
2089	0	0	0	0	0
2090	0	0	0	0	0
2091	0	0	0	0	0
2092	0	0	0	0	0
2093	0	0	0	0	0
2094	0	0	0	0	0
2095	0	0	0	0	0
2096	0	0	0	0	0
2097	0	0	0	0	0
2098	0	0	0	0	0
2099	0	0	0	0	0
2100	0	0	0	0	0
2101	0	0	0	0	0
2102	0	0	0	0	0
2103	0	0	0	0	0
2104	0	0	0	0	0
2105	0	0	0	0	0
2106	0	0	0	0	0
2107	0	0	0	0	0
2108	0	0	0	0	0
2109	0	0	0	0	0
2110	0	0	0	0	0
2111	0	0	0	0	0
2112	0	0	0	0	0
2113	0	0	0	0	0
2114	0	0	0	0	0
2115	0	0	0	0	0
2116	0	0	0	0	0
2117	0	0	0	0	0



Single Discount Rate Development Projection of Plan Fiduciary Net Position

				Projected	
Year	Projected Beginning Plan Net Position	Projected Total Contributions	Projected Benefit Payments	Investment Earnings at 7.50%	Projected Ending Plan Net Position
	(a)	(b)	(c)	(d)	(e)=(a)+(b)-(c)+(d)
2018	\$ 18,172,667	\$ 169,997	\$ 1,132,021	\$ 1,327,526	\$ 18,538,170
2019	18,538,170	107,589	1,173,095	1,351,129	18,823,792
2020	18,823,792	85,496	1,194,513	1,370,948	19,085,723
2021	19,085,723	79,889	1,224,800	1,389,271	19,330,083
2022	19,330,083	75,005	1,254,421	1,406,328	19,556,994
2023	19,556,994	70,601	1,279,737	1,422,252	19,770,110
2024	19,770,110	66,646	1,302,706	1,437,244	19,971,295
2025	19,971,295	62,789	1,328,511	1,451,241	20,156,813
2026	20,156,813	59,117	1,359,366	1,463,883	20,320,447
2027	20,320,447	55,770	1,392,913	1,474,797	20,458,102
2028	20,458,102	52,619	1,420,241	1,483,999	20,574,479
2029	20,574,479	49,780	1,438,109	1,491,965	20,678,115
2030	20,678,115	47,176	1,454,656	1,499,032	20,769,666
2031	20,769,666	44,849	1,461,368	1,505,566	20,858,713
2032	20,858,713	42,609	1,467,839	1,511,924	20,945,407
2033	20,945,407	40,265	1,472,216	1,518,178	21,031,635
2034	21,031,635	37,942	1,478,999	1,524,310	21,114,887
2035	21,114,887	35,614	1,484,970	1,530,248	21,195,779
2036	21,195,779	33,442	1,482,700	1,536,319	21,282,840
2037	21,282,840	31,291	1,479,836	1,542,875	21,377,170
2038	21,377,170	29,133	1,477,188	1,549,967	21,479,082
2039	21,479,082	27,021	1,473,102	1,557,683	21,590,684
2040	21,590,684	25,006	1,463,034	1,566,350	21,719,007
2041	21,719,007	23,104	1,450,737	1,576,357	21,867,730
2042	21,867,730	21,126	1,441,651	1,587,773	22,034,979
2043	22,034,979	19,054	1,434,491	1,600,504	22,220,046
2044	22,220,046	16,986	1,420,740	1,614,814	22,431,106
2045	22,431,106	15,149	1,398,927	1,631,379	22,678,707
2046	22,678,707	13,375	1,379,674	1,650,593	22,963,002
2047	22,963,002	11,407	1,365,097	1,672,379	23,281,691
2048	23,281,691	9,273	1,352,814	1,696,655	23,634,804
2049	23,634,804	7,087	1,339,887	1,723,534	24,025,538
2050	24,025,538	4,956	1,319,312	1,753,518	24,464,701
2051	24,464,701	3,402	1,286,023	1,787,624	24,969,704
2052	24,969,704	2,250	1,251,359	1,826,733	25,547,328
2053	25,547,328	1,167	1,214,896	1,871,358	26,204,957
2054	26,204,957	596	1,171,430	1,922,259	26,956,382
2055	26,956,382	377	1,120,948	1,980,467	27,816,278
2056	27,816,278	274	1,069,692	2,046,843	28,793,703
2057	28,793,703	205	1,018,738	2,122,023	29,897,192
2058	29,897,192	155	968,261	2,206,642	31,135,727
2059	31,135,727	107	919,217	2,301,336	32,517,954
2060	32,517,954	66	870,873	2,406,782	34,053,928
2061	34,053,928	51	823,439	2,523,726	35,754,266
2062	35,754,266	40	777,353	2,652,948	37,629,900
2063	37,629,900	23	733,015	2,795,252	39,692,161
2064	39,692,161	6	690,143	2,951,500	41,953,524
2065	41,953,524	0	648,496	3,122,635	44,427,663
2066	44,427,663	0	608,246	3,309,678	47,129,095
2067	47,129,095	0	569,393	3,513,716	50,073,418
	• • •		•	• •	



Single Discount Rate Development Projection of Plan Fiduciary Net Position (Concluded)

		idii i ida	-10	, 1400			concluded	
	Projected Paginging	Drojostod Total	р	ojected Benefit		Projected	Projected Ending Plan	
Year	Projected Beginning Plan Net Position	Projected Total Contributions	Pr	Payments	Fai	Investment rnings at 7.50%	Net Position	
	(a)	(b)		(c)		(d)	(e)=(a)+(b)-(c)+(d)	
2068	\$ 50,073,418	\$ 0	\$	531,836	\$	3,735,923	\$ 53,277,505	
2069	53,277,505	0	Y	495,471	Y	3,977,569	56,759,603	
2070	56,759,603	0		460,212		4,240,024	60,539,415	
2070	60,539,415	0		426,006		4,524,770	64,638,179	
2071	64,638,179	0		392,832		4,833,399	69,078,746	
2072	69,078,746	0		360,699		5,167,624	73,885,671	
2074	73,885,671	0		329,645		5,529,287	79,085,314	
2075	79,085,314	0		299,730		5,920,362	84,705,945	
2076	84,705,945	0		271,013		6,342,967	90,777,898	
2077	90,777,898	0		243,560		6,799,374	97,333,712	
2078	97,333,712	0		217,445		7,292,022	104,408,289	
2079	104,408,289	0		192,739		7,823,525	112,039,074	
2080	112,039,074	0		169,506		8,396,689	120,266,258	
2081	120,266,258	0		147,795		9,014,527	129,132,990	
2082	129,132,990	0		127,661		9,680,274	138,685,603	
2083	138,685,603	0		109,144		10,397,401	148,973,861	
2084	148,973,861	0		92,274		11,169,642	160,051,228	
2085	160,051,228	0		77,071		12,001,004	171,975,162	
2086	171,975,162	0		63,533		12,895,798	184,807,426	
2087	184,807,426	0		51,648		13,858,655	198,614,433	
2088	198,614,433	0		41,369		14,894,559	213,467,624	
2089	213,467,624	0		32,617		16,008,871	229,443,878	
2090	229,443,878	0		25,290		17,207,360	246,625,948	
2091	246,625,948	0		19,267		18,496,237	265,102,917	
2092	265,102,917	0		14,412		19,882,188	284,970,693	
2093	284,970,693	0		10,574		21,372,413	306,332,532	
2094	306,332,532	0		7,601		22,974,660	329,299,592	
2095	329,299,592	0		5,348		24,697,272	353,991,516	
2096	353,991,516	0		3,682		26,549,228	380,537,062	
2097	380,537,062	0		2,477		28,540,188	409,074,773	
2098	409,074,773	0		1,625		30,680,548	439,753,696	
2099	439,753,696	0		1,039		32,981,489	472,734,146	
2100	472,734,146	0		646		35,455,037	508,188,538	
2101	508,188,538	0		390		38,114,126	546,302,274	
2102	546,302,274	0		229		40,972,662	587,274,707	
2102	587,274,707	0		130		44,045,598	631,320,175	
2103	631,320,175	0		71		47,349,011		
							678,669,115 729,569,260	
2105	678,669,115	0		37		50,900,182		
2106	729,569,260	0		19		54,717,694	784,286,935	
2107	784,286,935	0		9		58,821,520	843,108,446	
2108	843,108,446	0		4		63,233,133	906,341,575	
2109	906,341,575	0		2		67,975,618	974,317,191	
2110	974,317,191	0		1		73,073,789	1,047,390,979	
2111	1,047,390,979	0		0		78,554,323	1,125,945,302	
2112	1,125,945,302	0		0		84,445,898	1,210,391,200	
2113	1,210,391,200	0		0		90,779,340	1,301,170,540	
2114	1,301,170,540	0		0		97,587,790	1,398,758,330	
2115	1,398,758,330	0		0		104,906,875	1,503,665,205	
2116	1,503,665,205	0		0		112,774,890	1,616,440,096	
2117	1,616,440,096	0		0		121,233,007	1,737,673,103	



Single Discount Rate Development Present Values of Projected Benefits

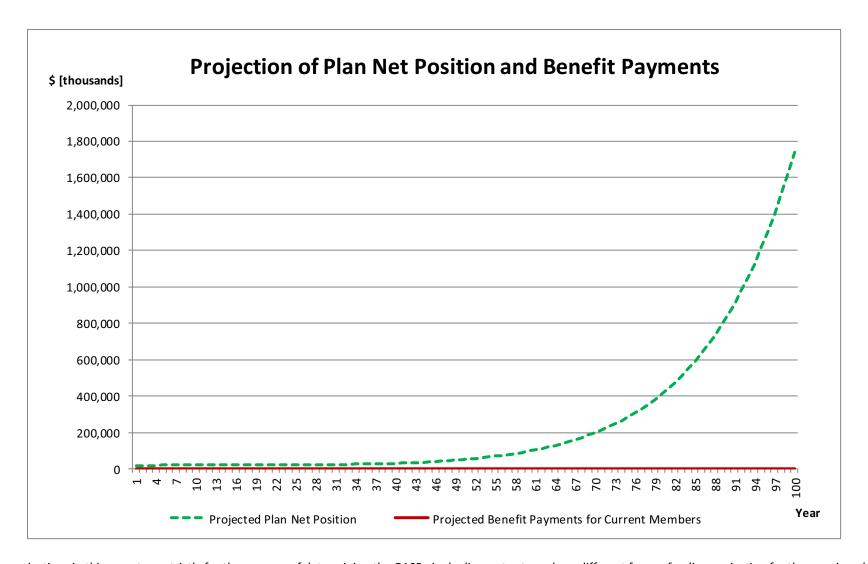
Year	Beg	Projected ginning Plan Net Position	Pr	ojected Benefit Payments	inded Portion of enefit Payments	Uı	nfunded Portion of Benefit Payments		Present Value of Funded Benefit Payments using Expected Return Rate (v)	Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf)	Present Value 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+s dr)^(a5)
2018	\$	18,172,667	\$	1,132,021	\$ 1,132,021	\$	0	\$		\$ 0	\$ 1,091,818
2019	·	18,538,170	·	1,173,095	1,173,095	·	0	·	1,052,496	0	1,052,496
2020		18,823,792		1,194,513	1,194,513		0		996,942	0	996,942
2021		19,085,723		1,224,800	1,224,800		0		950,902	0	950,902
2022		19,330,083		1,254,421	1,254,421		0		905,952	0	905,952
2023		19,556,994		1,279,737	1,279,737		0		859,754	0	859,754
2024		19,770,110		1,302,706	1,302,706		0		814,125	0	814,125
2025		19,971,295		1,328,511	1,328,511		0		772,328	0	772,328
2026		20,156,813		1,359,366	1,359,366		0		735,131	0	735,131
2027		20,320,447		1,392,913	1,392,913		0		700,718	0	700,718
2028		20,458,102		1,420,241	1,420,241		0		664,620	0	664,620
2029		20,574,479		1,438,109	1,438,109		0		626,029	0	626,029
2030		20,678,115		1,454,656	1,454,656		0		589,053	0	589,053
2031		20,769,666		1,461,368	1,461,368		0		550,485	0	550,485
2032		20,858,713		1,467,839	1,467,839		0		514,346	0	514,346
2033		20,945,407		1,472,216	1,472,216		0		479,888	0	479,888
2034		21,031,635		1,478,999	1,478,999		0		448,465	0	448,465
2035		21,114,887		1,484,970	1,484,970		0		418,861	0	418,861
2036		21,195,779		1,482,700	1,482,700		0		389,042	0	389,042
2037		21,282,840		1,479,836	1,479,836		0		361,201	0	361,201
2038		21,377,170		1,477,188	1,477,188		0		335,399	0	335,399
2039		21,479,082		1,473,102	1,473,102		0		311,137	0	311,137
2040		21,590,684		1,463,034	1,463,034		0		287,451	0	287,451
2041		21,719,007		1,450,737	1,450,737		0		265,149	0	265,149
2042		21,867,730		1,441,651	1,441,651		0		245,105	0	245,105
2043		22,034,979		1,434,491	1,434,491		0		226,873	0	226,873
2044		22,220,046		1,420,740	1,420,740		0		209,021	0	209,021
2045		22,431,106		1,398,927	1,398,927		0		191,453	0	191,453
2046		22,678,707		1,379,674	1,379,674		0		175,645	0	175,645
2047		22,963,002		1,365,097	1,365,097		0		161,664	0	161,664
2048		23,281,691		1,352,814	1,352,814		0		149,032	0	149,032
2049		23,634,804		1,339,887	1,339,887		0		137,310	0	137,310
2050		24,025,538		1,319,312	1,319,312		0		125,769	0	125,769
2051		24,464,701		1,286,023	1,286,023		0		114,042	0	114,042
2052		24,969,704		1,251,359	1,251,359		0		103,226	0	103,226
2053		25,547,328		1,214,896	1,214,896		0		93,226	0	93,226
2054		26,204,957		1,171,430	1,171,430		0		83,619	0	83,619
2055		26,956,382		1,120,948	1,120,948		0		74,433	0	74,433
2056		27,816,278		1,069,692	1,069,692		0		66,074	0	66,074
2057		28,793,703		1,018,738	1,018,738		0		58,537	0	58,537
2058		29,897,192		968,261	968,261		0		51,755	0	51,755
2059		31,135,727		919,217	919,217		0		45,705	0	45,705
2060		32,517,954		870,873	870,873		0		40,281	0	40,281
2061		34,053,928		823,439	823,439		0		35,429	0	35,429
2062		35,754,266		777,353	777,353		0		31,113	0	31,113
2063		37,629,900		733,015	733,015		0		27,292	0	27,292
2064		39,692,161		690,143	690,143		0		23,903	0	23,903
2065		41,953,524		648,496	648,496		0		20,893	0	20,893
2066		44,427,663		608,246	608,246		0		18,229	0	18,229
2067		47,129,095		569,393	569,393		0		15,874	0	15,874



Single Discount Rate Development Present Values of Projected Benefits (Concluded)

(a) 2068 2069 2070 2071 2072	(b) \$ 50,073,418	•	Bene	ed Portion of fit Payments		of Benefit Payments	Expected Return Rate (v)	Municipal Bond Rate (vf)	Payments using Single Discount Rate (sdr)
2068 2069 2070 2071	\$ 50,073,418	(c)		(d)		(e)	(f)=(d)*v^((a)5)	(g)=(e)*vf ^((a)5)	(h)=(c)/(1+sdr)^(a5)
2069 2070 2071		\$ 531,836	\$	531,836	:		\$ 13,793	\$ 0	\$ 13,793
2070 2071	53,277,505	495,471		495,471		0	11,953	0	11,953
2071	56,759,603	460,212		460,212		0	10,328	0	10,328
	60,539,415	426,006		426,006		0	8,893	0	8,893
	64,638,179	392,832		392,832		0	7,629	0	7,629
2073	69,078,746	360,699		360,699		0	6,516	0	6,516
2074	73,885,671	329,645		329,645		0	5,539	0	5,539
2075	79,085,314	299,730		299,730		0	4,685	0	4,685
2076	84,705,945	271,013		271,013		0	3,941	0	
						0		0	3,941
2077	90,777,898	243,560		243,560			3,295		3,295
2078	97,333,712	217,445		217,445		0	2,736	0	2,736
2079	104,408,289	192,739		192,739		0	2,256	0	2,256
2080	112,039,074	169,506		169,506		0	1,846	0	1,846
2081	120,266,258	147,795		147,795		0	1,497	0	1,497
2082	129,132,990	127,661		127,661		0	1,203	0	1,203
2083	138,685,603	109,144		109,144		0	957	0	957
2084	148,973,861	92,274		92,274		0	752	0	752
2085	160,051,228	77,071		77,071		0	585	0	585
2086	171,975,162	63,533		63,533		0	448	0	448
2087	184,807,426	51,648		51,648		0	339	0	339
2088	198,614,433	41,369		41,369		0	253	0	253
2089	213,467,624	32,617		32,617		0	185	0	185
2090	229,443,878	25,290		25,290		0	134	0	134
2091	246,625,948	19,267		19,267		0	95	0	95
2092	265,102,917	14,412		14,412		0	66	0	66
2093	284,970,693	10,574		10,574		0	45	0	45
2094	306,332,532	7,601		7,601		0	30	0	30
2095	329,299,592	5,348		5,348		0	20	0	20
2096	353,991,516	3,682		3,682		0	13	0	13
2097	380,537,062	2,477		2,477		0	8	0	8
2098	409,074,773	1,625		1,625		0	5	0	5
2099	439,753,696	1,039		1,039		0	3	0	3
2100	472,734,146	646		646		0	2	0	2
2101	508,188,538	390		390		0	1	0	1
2102	546,302,274	229		229		0	1	0	1
2103	587,274,707	130		130		0	0	0	0
2104	631,320,175	71		71		0	0	0	0
2105	678,669,115	37		37		0	0	0	0
2106	729,569,260	19		19		0	0	0	0
2107	784,286,935	9		9		0	0	0	0
2108	843,108,446	4		4		0	0	0	0
2109	906,341,575	2		2		0	0	0	0
						0	0	0	
2110	974,317,191	1		1					0
2111	1,047,390,979	0		0		0	0	0	0
2112	1,125,945,302	0		0		0	0	0	0
2113	1,210,391,200	0		0		0	0	0	0
2114	1,301,170,540	0		0		0	0	0	0
2115	1,398,758,330	0		0		0	0	0	0
2116	1,503,665,205	0		0		0	0	0	0
2117	1,616,440,096	0		0		0 Totals	\$ 17,736,844	. 0	\$ 17,736,844







SECTION D

GLOSSARY OF **T**ERMS

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 fund 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.

