# FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO (A COMPONENT UNIT OF THE CITY OF CHICAGO, ILLINOIS)

FINANCIAL STATEMENTS

DECEMBER 31, 2015 AND 2014

# FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO

# FINANCIAL STATEMENTS WITH SUPPLEMENTARY INFORMATION

# DECEMBER 31, 2015 AND 2014

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# FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO

# FINANCIAL STATEMENTS WITH SUPPLEMENTARY INFORMATION

# DECEMBER 31, 2015 AND 2014

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### REPORT OF INDEPENDENT AUDITORS

To the Board of Trustees of Firemen's Annuity and Benefit Fund of Chicago

### Report on the Financial Statements

We have audited the accompanying financial statements of Firemen's Annuity and Benefit Fund of Chicago (the Plan), a component unit of the City of Chicago, Illinois, which comprise the combining statements of pension plan fiduciary net position and health insurance supplement plan net position as of December 31, 2015 and 2014, and the related combining statements of changes in pension plan fiduciary net position and health insurance supplement plan net position for the years then ended, and the related notes to the financial statements, which collectively comprise the Plan's basic financial statements.

### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit includes performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Plan's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

**Opinion** 

In our opinion, the financial statements referred to in the first paragraph present fairly, in all material respects, the plan net position of Firemen's Annuity and Benefit Fund of Chicago as of December 31, 2015 and 2014, and the changes in plan net position for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

Emphasis of Matter

As discussed in Note 15 to the financial statements, on May 30, 2016, Public Act 99-0506 (the Act) was enacted into law amending sections of the Illinois Pension Code relating to the City of Chicago (the City), Illinois' contributions to the Plan beginning with the Plan's year ended December 31, 2015. The Act specifies the amounts the City is to pay the Plan beginning with the Plan's year ended December 31, 2015 and extends the target date of achieving a 90% funding level from 2040 to 2055. The effects of the Act on the employer contributions, employer contributions receivable, and actuarially determined employer's net pension liability are not reflected in these financial statements. As a result, approximately \$47,000,000 of employer contributions receivable at December 31, 2015 will not be received in 2016. The Plan's actuary has yet to complete an impact study to determine the increase in the employer's net pension liability at December 31, 2015 as a result of Public Act 99-0506.

### **Other Matters**

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that Management's Discussion and Analysis on pages 4 through 4e and the required supplementary information on pages 32 through 37 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquires of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### Other Matters (continued)

Supplementary Information

Our audits were conducted for the purpose of forming an opinion on the Plan's basic financial statements as a whole. The accompanying supplementary information on pages 38 through 40 is presented for purposes of additional analysis and is not a required part of the financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audits of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the basic financial statements as a whole.

# Previously Audited Information

Legacy Professionals LLP

We also have previously audited the basic financial statements for the years ended December 31, 2013, 2012, 2011, and 2010 (which are not presented herein), and we expressed unmodified opinions on those financial statements. In our opinion, the information on page 40 is fairly stated in all material respects in relation to the basic financial statements from which it has been derived.

Chicago, Illinois

June 22, 2016

### FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO

## MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED)

DECEMBER 31, 2015 AND 2014

This section presents Management's Discussion and Analysis of the financial position and performance of the Firemen's Annuity and Benefit Fund of Chicago (the Plan) as of and for the year ended December 31, 2015 and 2014. This discussion is presented as an overview of the financial activities of the Plan and should be read in conjunction with the Plan's financial statements.

### Overview of the Basic Financial Statements

The following discussion and analysis is intended to serve as an introduction to the Plan's basic financial statements. The financial statements are prepared on an economic sources focus and accrual basis of accounting in accordance with Governmental Accounting Standards Board (GASB) pronouncements. The basic components of the financial package are described below:

Combining Statements of Pension Plan Fiduciary Net Position and Health Insurance Supplement Plan Net Position provides a snapshot of account balances and net position held in trust for future benefit payments and any liabilities as of the Plan's year end. Over time, increases and decreases in net position may serve as a useful indicator of whether the financial position of the Plan is improving or deteriorating.

Combining Statements of Changes in Pension Plan Fiduciary Net Position and Health Insurance Supplement Plan Net Position shows the revenues (additions) and expenses (deductions) during the year, where additions less deductions equal net increase (decrease) in net position. The net increase (decrease) in net position reports the change in net position as reported in the combining Statements of Changes in Pension Plan Fiduciary Net Position and Health Insurance Supplement Plan Net Position of the prior year and the current year.

**Notes to the Financial Statements** provides additional information that is essential to achieving a better understanding of the data provided in the basic financial statements.

**Required Supplementary Information** provides schedules and related notes concerning actuarial information, funding progress, employer contributions, and investment returns.

Supplementary Information includes schedules of administrative expenses, investment expenses, additions by source, and deductions by type.

### Financial Highlights

### **Plan Net Position**

The condensed Combining Statements of Pension Plan Fiduciary Net Position and Health Insurance Supplement Plan Net Position reflect the resources available to pay benefits to members. A summary of the Combining Statements of Pension Plan Fiduciary Net Position and Health Insurance Supplement Plan Net Position is as follows:

### Plan Net Position As of December 31,

						Current Ye	
					J	Increase/(Decre	ease) in
	<u>2015</u>	<u>2014</u>		<u>2013</u>		<u>Dollars</u>	Percent
Assets:							
Receivables	\$ 245,450,243	\$ 116,531,262	\$	113,622,242	\$	128,918,981	110.6 %
Prepaid expenses	173,206	137,990		119,151		35,216	25.5 %
Investments, at fair value	802,505,864	922,505,115		1,007,046,152	(	119,999,251)	-13.0 %
Collateral held for							
securities on loan	140,197,357	160,968,881	-	168,963,442	-	(20,771,524)	-12.9 %
Total assets	 1,188,326,670	 1,200,143,248	_	1,289,750,987		(11,816,578)	-1.0 %
Liabilities:							
Payables	3,028,220	3,165,966		4,082,688		(137,746)	-4.4%
Securities lending collateral	 140,197,357	 160,968,881	,	168,963,442		(20,771,524)	-12.9 %
Total liabilities	143,225,577	 164,134,847		173,046,130		(20,909,270)	-12.7 %
Plan net position	\$ 1,045,101,093	\$ 1,036,008,401	\$	1,116,704,857	<u>\$</u>	9,092,692	0.9 %

Plan net position increased by \$9,092,692 or 0.9% from \$1,036,008,401 at December 31, 2014 to \$1,045,101,093 at December 31, 2015. Comparatively, plan net position decreased by \$80,696,456 or 7.2% from \$1,116,704,857 at December 31, 2013 to \$1,036,008,401 at December 31, 2014.

The increase in plan net position for the year ended December 31, 2015 was primarily due to a significant increase in employer contributions of 117.2% for the year ended December 31, 2015. Overall growth of plan net position was significantly offset by the liquidation of marketable securities to meet monthly benefit obligations.

The decrease in plan net position for the year ended December 31, 2014 was primarily due to employer contributions and investment returns not exceeding benefit payments. Overall reduction of plan net position was significantly impacted by the liquidation of marketable securities to meet monthly benefit obligations.

### **Changes in Plan Net Position**

The condensed Combining Statements of Changes in Pension Plan Fiduciary Net Position and Health Insurance Supplement Plan Net Position reflects the changes in the resources available to pay benefits to members. A summary of the Combining Statements of Changes in Pension Plan Fiduciary Net Position and Health Insurance Supplement Plan Net Position is as follows:

# Changes in Plan Net Position For the Years Ended December 31,

				Current Y	ear
				Increase/(Decr	ease) in
	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>Dollars</u>	Percent
Additions:					
Employer contributions	\$ 238,485,820	\$ 109,805,454	\$ 106,219,800	\$ 128,680,366	117.2 %
Plan member contributions	46,552,247	48,056,393	42,520,218	(1,504,146)	-3.1 %
Net investment income (loss)	(873,305)	30,179,163	189,895,723	(31,052,468)	-102.9 %
Net securities lending income	526,419	684,725	637,157	(158,306)	-23.1 %
Other	7,949,589	11,394	(57,079)	7,938,195	N/R
Total additions	292,640,770	188,737,129	339,215,819	103,903,641	55.1 %
Deductions:					
Benefits	274,459,754	261,571,672	247,057,741	12,888,082	4.9 %
Administrative expenses	3,149,549	3,066,946	3,101,827	82,603	2.7 %
Annuitant health care	2,381,458	2,471,055	2,550,785	(89,597)	-3.6%
Litigation settlement	ec	2,246	13,291	(2,246)	N/R
Refunds of contributions	3,557,317	2,321,666	2,210,116	1,235,651	53.2 %
Total deductions	283,548,078	269,433,585	254,933,760	14,114,493	5.2 %
Net increase (decrease)					
in plan net position	\$ 9,092,692	<u>\$ (80,696,456)</u>	\$ 84,282,059	\$ 89,789,148	111.3 %

N/R = Not relevant

### **Additions to Plan Net Position**

Total additions were \$292,640,770 in 2015, \$188,737,129 in 2014 and \$339,215,819 in 2013.

Employer contributions increased by \$128,680,366 or 117.2% from \$109,805,454 for the year ended December 31, 2014 to \$238,485,820 for the year ended December 31, 2015. Comparatively, employer contributions increased by \$3,585,654 or 3.4% from \$106,219,800 for the year ended December 31, 2013 to \$109,805,454 for the year ended December 31, 2014. During the year ended December 31, 2015, the Plan recognized an increase in employer contributions of approximately 117.2% as a result of the implementation of Public Act 96-1495 that requires the employer to contribute the actuarially determined contribution.

# Additions to Plan Net Position (continued)

Plan member contributions decreased by \$1,504,146 or 3.1% from \$48,056,393 for the year ended December 31, 2014 to \$46,552,247 for the year ended December 31, 2015. Comparatively, plan member contributions increased by \$5,536,175 or 13.0% from \$42,520,218 for the year ended December 31, 2013 to \$48,056,393 for the year ended December 31, 2014. Plan member contributions for the year ended December 31, 2015 decreased as a result of approximately \$3.3 million in retroactive member contributions received during the year ended December 31, 2014. There were no retroactive member contributions during the year ended December 31, 2015 or the year ended December 31, 2013.

Net investment income decreased by \$31,052,468 or 102.9% from \$30,179,163 for the year ended December 31, 2014 to (\$873,305) for the year ended December 31, 2015. Comparatively, net investment income decreased by \$159,716,560 or 84.1% from \$189,895,723 for the year ended December 31, 2013 to \$30,179,163 for the year ended December 31, 2014. The 2015 calendar year will be remembered for the long-awaited first Federal Reserve interest rate hike in nine years, as well as a year of disappointing returns across all asset classes, with plunging commodity and oil prices and uncertainty over the pace of China's slowdown. Painfully, no year since 1990 has seen more negative returns across equity, fixed income, and commodity prices. While losses in 2008 were sharper, losses in 2015 were more broad-based. Despite the poor investment results, the U.S. economy remained a relative bright spot in the global economy. The Plan's realized return on investments for the year ended December 31, 2015 was 0.4% versus 3.9% for the year ended December 31, 2014 and 22.0% for the year ended December 31, 2013. Over the previous twenty years, the Plan's annual return is 8.0% which is 0.5% above the actuarial assumed expected rate of return of 7.5%.

# Portfolio Rate of Return For the Years Ended December 31,

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Domestic Equities	1.3%	8.0%	36.2%
S&P 500 Benchmark	1.4%	13.7%	32.4%
International Equities MS World Ex US	0.3%	-3.7%	23.2%
	-2.6%	-3.9%	21.6%
Fixed income	-0.3%	6.7%	1.3%
Barclays Aggregate Benchmark	0.6%	6.0%	-2.0%
Total Plan	0.4%	3.9%	22.0%

### Additions to Plan Net Position (continued)

Other additions increased by \$7,938,195 from \$11,394 for the year ended December 31, 2014 to \$7,949,589 for the year ended December 31, 2015. Comparatively, other additions increased by \$68,473 or 120.0% from (\$57,079) for the year ended December 31, 2013 to \$11,394 for the year ended December 31, 2014. Other additions for the year ended December 31, 2015 include a one time receipt of interest from the Lewis litigation settlement of approximately \$7.9 million.

### **Deductions to Plan Net Position**

Total deductions were \$283,548,078 in 2015, \$269,433,585 in 2014 and \$254,933,760 in 2013.

Benefits increased by \$12,888,082 or 4.9% from \$261,571,672 for the year ended December 31, 2014 to \$274,459,754 for the year ended December 31, 2015. Comparatively, benefits increased by \$14,513,931 or 5.9% from \$247,057,741 for the year ended December 31, 2013 to \$261,571,672 for the year ended December 31, 2014. In recent times, benefits have increased yearly due to several factors; a contractual free healthcare incentive which has added annuitants above the expected number, cost of living increases, and new annuitants coming on the pension roll at higher rates than the annuitants that are being removed from the pension roll.

Administrative expenses, annuitant health care, litigation settlement and refunds of contributions have all remained at relatively constant amounts over the last three years.

### **Actuarial Information**

### Pension Benefits

The Plan's funding for pension benefits as of December 31, 2015, 2014 and 2013 is as follows:

# Funding for Pension Benefits For the Years Ended December 31,

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Total pension liability Plan fiduciary net position Employer's net pension liability	\$ 4,826,084,038 1,045,101,093 \$ 3,780,982,945	\$ 4,512,760,079 1,036,008,401 \$ 3,476,751,678	\$ 4,278,212,172 1,116,704,857 \$ 3,161,507,315
Plan fiduciary net position as a percentage of the total pension liability	<u>21.66</u> %	<u>22.96</u> %	<u>26.10</u> %

As discussed in Note 15, the actuarial valuation is based on statutes in effect as of December 31, 2015 and does not consider the impact of Public Act 99-0506 which was passed on May 30, 2016.

### **Actuarial Information (continued)**

### Postemployment Healthcare Benefits

The Plan's funding for postemployment healthcare benefits as of December 31, 2015, 2014 and 2013 is as follows:

# Funding for Health Insurance Supplement For the Years Ended December 31,

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Unfunded actuarial accrued liability	\$ 2,398,609	\$ 4,994,927	\$ 7,691,833
Funded ratio	<u>0.00</u> %	<u>0.00</u> %	0.00%

Contributions for postemployment healthcare benefits are made on a "pay-as-you-go" basis resulting in a 0.00% funded ratio. Public Act 98-0043, effective June 29, 2013, terminates the retiree healthcare subsidy paid by the Plan after December 31, 2016.

### **Contact Information**

This financial report is designed to provide plan participants, retirees, beneficiaries, the employer and all other interested users with a complete, detailed, easy to understand financial portrait of the Plan at December 31, 2015. Comments, questions or concerns regarding this report or requests for additional information should be addressed to:

Kenneth Kaczmarz
Executive Director
Firemen's Annuity and Benefit Fund of Chicago
20 S. Clark Street
Suite 1400
Chicago, IL 60603

FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO

# COMBINING STATEMENTS OF PENSION PLAN FIDUCIARY NET POSITION AND HEALTH INSURANCE SUPPLEMENT PLAN NET POSITION

DECEMBER 31, 2015 AND 2014

FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO

COMBINING STATEMENTS OF CHANGES IN PENSION PLAN FIDUCIARY NET POSITION AND HEALTH INSURANCE SUPPLEMENT PLAN NET POSITION

Years Ended December 31, 2015 and 2014

FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO

COMBINING STATEMENTS OF CHANGES IN PENSION PLAN FIDUCIARY NET POSITION AND HEALTH INSURANCE SUPPLEMENT PLAN NET POSITION

Years Ended December 31, 2015 and 2014

2014	Health Insurance	Pension Supplement			:	\$	32,	<u>. 884,327</u>	235,813,693			8,3		24,456,379	- 200,000	<u>801,600</u>	78	3,066,946			2,321,666	<u>35</u> <u>266,962,530</u> <u>2,471,055</u>	56) (80,696,456) -	57 1 116 704 857 -	
	Health Insurance	Supplement Total				- \$ 202,899,248	- 32,030,118	- 884,327	- 235,813,693		- 15,981,172	- 8,393,676	- 81,531	- 24,456,379	- 500,000	801,600	- 261,571,672	3,066,946	2,381,458 2,471,055	- 2,246	- 2,321,666	2,381,458 269,433,585	- (80,696,456)	1 116 704 857	**** ^ ********
2015	iu <sub>I</sub>	Pension Sur				\$ 214,127,585 \$	33,090,899	1,034,355	248,252,839		16,515,784	8,404,918	95,813	25,016,515	500,000	690,400	274,459,754	3,149,549		•	3,557,317		9,092,692	1 026 000 401	
		Total				\$ 214,127,585	33,090,899	1,034,355	s 248,252,839		16,515,784	8,404,918	95,813	25,016,515	200,000	690,400	274,459,754	3,149,549	2,381,458	•	3,557,317	283,548,078	9,092,692	10000000	
			Driverous	DEDUCTIONS  Benefits	Age and service benefits	Employees	Sponses	Dependents	Total age and service benefits	Disability benefits	Duty	Occupational	Ordinary	Total disability benefits	Giff Fund navments	Death benefits	Total benefits	Administrative expenses	Annuitant health care	I itioation settlement	Refinds of contributions	Total deductions	NET INCREASE (DECREASE)	NET POSITION	D

### FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO

### NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2015 AND 2014

### NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Reporting Entity - Accounting principles generally accepted in the United States of America define a financial reporting entity as consisting of the primary government and its component units for which the primary government is financially accountable. Financial accountability includes appointing a voting majority of a component unit's governing board, the ability of a primary government to impose its will on the component unit, or a potential for a component unit to provide specific financial benefits to or impose specific financial burdens on the primary government.

Based on the above criteria, the Firemen's Annuity and Benefit Fund of Chicago (the Plan) is considered to be a component unit of the City of Chicago, Illinois (the City) and is included in the City's financial statements as a pension trust fund.

**Method of Accounting** - The financial statements are presented using the accrual basis of accounting. Employer contributions are recognized as income pursuant to legal requirements as specified by the Illinois Compiled Statutes. Plan member contributions are recognized in the period in which the contributions are due. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan.

**Investments** - Investments are reported at fair value, which generally represents reported market value as of the last business day of the year. Cash deposits and short-term investments are carried at cost which approximates fair value. Pooled funds are carried at fair value as estimated by the Plan's investment managers. Private equity and venture capital are carried at fair value as estimated by the investment partnership. Foreign securities quoted in foreign currencies are translated into U.S. dollars at year end exchange rates.

**Capital Assets** - The Plan has set a capitalization threshold of \$100,000 for all capital asset types. As of December 31, 2015 and 2014, the Plan does not have any capital assets.

Estimates - The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect certain reported amounts and disclosures in the financial statements. Actual results could differ from those estimates.

**Subsequent Events** - Subsequent events have been evaluated through June 22, 2016, which is the date the financial statements were available to be issued.

### NOTE 2. PLAN DESCRIPTION

The Plan was established in 1931 and is governed by legislation contained in the Illinois Compiled Statutes (the Statutes), particularly 40 ILCS, Act 5, Article 6 (the Article), which specifically and exclusively refers to the Plan. The Plan can be amended only by the Illinois Legislature. The Plan is a single-employer defined benefit pension plan with a defined contribution minimum. The Plan was established for the purpose of providing retirement and disability benefits for employees of the City of Chicago employed under the provisions of the Municipal Personnel Ordinance as fire service and for the dependents of such employees.

The Statutes authorize a Board of Trustees (the Board) of eight members to carry out the provisions of the Article. According to the Article, four members of the Board are ex officio and four are elected by the employee members of the Plan. The four ex officio members are the City Treasurer, the City Clerk, the City Comptroller and the Deputy Fire Commissioner. All members of the Board of Trustees are fiduciaries with respect to the Plan and are statutorily mandated to discharge their duties, as such, solely in the interest of the Plan's participants and beneficiaries.

The Board has the powers and duties required in the Article to collect all contributions due to the Plan, to invest the Plan's reserves, to have an annual audit, to appoint employees, to authorize or suspend payment of any benefit and to have exclusive original jurisdiction in all matters relating to or affecting the Plan. The Board approves its own budget prepared by the Plan's administrative staff. The Board is required annually to submit to the City Council of the City of Chicago a detailed report of the financial affairs and status of the reserves of the Plan. Provisions in other articles of 40 ILCS require the Board to submit its annual audit and actuarial valuation reports to the State of Illinois Department of Insurance, as well as another detailed annual report, the form and content of which are specified by the Department of Insurance.

The Plan provides retirement benefits, as well as, death and disability benefits. Employees who reach compulsory retirement age of 63, except for emergency medical technicians, which is age 65, with at least 10 years of service and less than 20 years of service are entitled to receive an annuity of 30% of average salary for the first ten years of service plus an additional 2% for each year in excess of 10 years with partial City contributions to a maximum of 50%.

At age 50 or more with 10 or more but less than 20 years of service, a Tier 1 employee is entitled to an annuity of the entire sum accumulated for age and service annuity from deductions from salary, plus 1/10 of the sum accumulated from contributions by the City for each completed year of service after the first 10 years. For Tier 2 employees, the annuity is based on an accrual rate of 2.5% reduced by one half of one percent per month for retirement prior to age 55, subject to a maximum of 75%.

### NOTE 2. PLAN DESCRIPTION (CONTINUED)

Employees with at least 20 years of service are entitled to receive a minimum formula annuity upon attainment of age 50 for Tier 1 employees and age 55 for Tier 2 employees, of 50% of final average salary plus an additional amount equal to 2.5% of final average salary for each year of service or fraction thereof in excess of 20 years of service. For Tier 1 employees, final average salary is based on the highest average annual salary for any four consecutive years within the last ten years of service immediately preceding the date of retirement. For Tier 2 employees, the final average salary is based on 96 consecutive months within the last 120 months, capped at \$106,800 indexed annually at the lesser of 3% and 50% of the Consumer Price Index (CPI-U). This annuity shall not exceed 75% of the final average salary. The monthly annuity is increased by 3% of the original annuity at the first of the month following the later of age 55 or the first anniversary of retirement and by 3% each first day of January thereafter, if born before January 1, 1955. There is no limit on the increases. If born after January 1, 1955, the monthly annuity is increased by 1.5% of the original annuity at the first of the month following the later of age 60 or the first anniversary of retirement and 1.5% on each first day of January thereafter, but not to exceed a total increase of 30%.

Participants should refer to the applicable State Statutes for more complete information.

Any employee of the City employed under the provisions of the Municipal Personnel Ordinance as fire service is covered by the Plan. At December 31, 2015 and 2014, participation in the Plan consisted of the following:

	<u>2015</u>	<u>2014</u>
Retirees and beneficiaries currently receiving benefits	4,729	4,703
Terminated plan participants entitled to but not yet receiving benefits	76	65
Active plan participants	4,735	4,809
Total participants	9,540	9,577

### NOTE 3. EMPLOYER'S PENSION LIABILITY

### **Net Pension Liability**

The components of the net pension liability of the Plan for the years ended December 31, 2015 and 2014 are as follows:

	<u>2015</u>	<u>2014</u>
Total pension liability Plan fiduciary net position Employer's net pension liability	\$ 4,826,084,038 1,045,101,093 \$ 3,780,982,945	\$ 4,512,760,079 1,036,008,401 \$ 3,476,751,678
Plan fiduciary net position as a percentage of the total pension liability	<u>21.66</u> %	<u>22.96</u> %

### EMPLOYER'S PENSION LIABILITY (CONTINUED) NOTE 3.

# **Net Pension Liability**

See the Schedule of Changes in the Employer's Net Pension Liability and Related Ratios of the required supplementary information for additional information related to the funded status of the Plan.

The net pension liabilities were determined by actuarial valuations performed as of December 31, 2015 and 2014 using the following actuarial methods and assumptions:

Actuarial valuation date

December 31, 2015 and 2014

Actuarial cost method

Entry-Age Normal

Asset valuation method

5 year smoothed market

Actuarial assumptions:

Inflation

2015 - 2.50%, 2014 - 3.00%, per year

Salary increases

2015 - 3.75%, 2014 - 4.25%, per year, plus additional service based increases

Investment rate of return

2015 - 7.50%, 2014 - 8.00%, per year

Retirement age

Experience-based table of rates that are specific to the type of eligibility condition. Last updated for the December 31, 2011, valuation pursuant to an

experience study of the period January 1, 2003, through December 31, 2010

Mortality

RP-2000 Combined Health Mortality Table, sex distinct. The mortality table used is a static table and provide an estimated margin of 15 percent for future mortality improvements as of the experience study performed as of December

31, 2011.

Disabled mortality

RP-2000 Combined Health Mortality Table, sex distinct, set forward six

years

Pre-retirement mortality

80 percent of the post-retirement rates

Postretirement annuity

Tier 1 participants - 1.50% simple interest for 20 years for members born in

increases

or after 1955, 3.00% simple interest for life for members born before 1955.

Tier 2 participants - the lesser of 3.0% or one half of the increase in the

Consumer Price Index

The actuarial assumptions used in the December 31, 2015 and 2014 valuations were based on the results of an actuarial experience study conducted by Gabriel Roeder Smith & Company for the period of January 1, 2003 through December 31, 2010, which was adopted and effective as of December 31, 2011.

# NOTE 3. EMPLOYER'S PENSION LIABILITY (CONTINUED)

### **Discount Rate**

The blended discount rates used to measure the total pension liability at December 31, 2015 and 2014 were 7.16% and 7.60% respectively. The projection of cash flows used to determine the discount rate assumed that member contributions will be made at the current contribution rate and that employer contributions will be made at rates as specified by the Illinois Compiled Statutes. Based on those assumptions, the Plan's fiduciary net position and future contributions are insufficient to make all projected future benefit payments of current plan members. Municipal bond rates of 3.57% and 3.56% at December 31, 2015 and 2014, respectively, and long-term investment rates of return of 7.50% and 8.00% at December 31, 2015 and 2014, respectively, were used in the development of the blended discount rates. The municipal bond rates were from the Federal Reserve statistical release (H.15) and described as Bond Buyer Index, general obligation, 20 years to maturity, mixed quality.

### **Discount Rate Sensitivity**

The following is an analysis of the net pension liability's sensitivity to changes in the discount rate at December 31, 2015 and 2014. The following table presents the net pension liability of the employer using the blended discount rate as well as the employer's net pension liability calculated using a discount rate 1 percent lower and 1 percent higher than the current discount rate:

	Current					
		Discount				
	1% Decrease	Rate	1% Increase			
	<u>6.16</u> %	<u>7.16</u> %	<u>8.16</u> %			
Net Pension Liability - December 31, 2015	\$ 4,311,377,843	\$ 3,780,982,945	\$ 3,329,105,704			
		Current				
		Discount				
	1% Decrease	Rate	1% Increase			
	<u>6.60</u> %	<u>7.60</u> %	<u>8.60</u> %			
Net Pension Liability - December 31, 2014	\$ 3,963,802,628	\$ 3,476,751,678	\$ 3,060,756,725			

### **Subsequent Event**

As discussed in Note 15, the actuarial valuation is based on statutes in effect as of December 31, 2015 and does not consider the impact of Public Act 99-0506 which was passed on May 30, 2016.

### NOTE 4. SUMMARY OF EMPLOYER FUNDING POLICIES

Covered employees are required to contribute 9.125% of their salary to the Plan. If an employee leaves covered employment without qualifying for an annuity, accumulated contributions are refunded with statutory interest. The City, for its employer portion, is required by the Statutes to contribute the remaining amounts necessary to finance the requirements of the Plan.

For the year ended December 31, 2014, the City's total contribution was limited to an amount not more than the total amount of contributions made by the employees to the Plan in the calendar year two years prior to the year for which annual applicable tax is levied, multiplied by 2.26.

Public Act 96-1495, effective as of January 1, 2011, requires that the City finance the Plan on an actuarial basis starting with the Plan year ended December 31, 2015. The funding policy requires future employer contributions, employee contributions and other income to be sufficient to produce a funding level of 90% by the year ended December 31, 2040.

Subsequent to the year ended December 31, 2015 as described in Note 15, Public Act 99-0506 specified the amounts of contributions to be paid by the City as follows:

	Required
Plan year ending	Statutory
December 31,	Contribution
2015	\$ 199,000,000
2016	\$ 208,000,000
2017	\$ 227,000,000
2018	\$ 235,000,000
2019	\$ 245,000,000

Beginning with the Plan year ending December 31, 2020, the City is required to fund the Plan on an actuarial basis sufficient to produce a funding level of 90% by the year ended December 31, 2055.

### NOTE 5. RESERVES FOR ACTUARIAL LIABILITIES

The reserves for actuarial liabilities are based on an annual valuation submitted by the Plan's consulting actuary. The annual actuarial valuation establishes the reserves required for various statutory liabilities which arise from pension benefit schedules that are part of the current pension code legislation. The pension code legislation can be amended only by the Illinois Legislature.

The Prior Service Annuity Reserve is a reserve account for the accumulation of City contributions to provide for: a) employee and spouse annuities that are based on service performed before the Plan's effective date of July 1, 1931 and b) any excess in minimum annuity formula requirements over the amounts required for age and service annuities, and for spouse annuities.

# NOTE 5. RESERVES FOR ACTUARIAL LIABILITIES (CONTINUED)

The City Contribution Reserve is used to accumulate amounts contributed by the City to provide for annuities based on age and service of each employee and spouse. An individual account is maintained for each employee and spouse until the employee retires, at which time the individual account balances are transferred to the Annuity Payment Reserve.

The Annuity Payment Reserve receives the amounts transferred from the individual accounts in the City Contribution Reserve and the Salary Deduction Reserve when an employee retires and qualifies for an annuity. All age and service annuity payments are charged to this reserve.

The Salary Deduction Reserve is similarly used to accumulate deductions made from employee salaries for age and service annuities for the employee and spouse. Individual accounts are maintained until the employee retires or withdraws from service before qualifying for an annuity. At retirement, account balances are transferred to the Annuity Payment Reserve. In case an eligible employee elects to take a refund of contributions instead of an annuity, the contribution refund is charged to this reserve.

The Death Benefit Reserve accumulates contributions from employees and the City for ordinary death benefits. All ordinary death benefits paid are charged to this reserve.

The Ordinary Disability Reserve accumulates contributions from employees and the City for ordinary disability benefits. All ordinary disability benefits paid are charged to this reserve.

The Supplementary Payment Reserve accumulates amounts to provide automatic annual postretirement increases to employee annuitants who retired before September 1, 1959 and amounts in excess of the original annuity grant due to increases in the minimum annuity.

The Gift Reserve accumulates donations to be used to provide an extra benefit to widowed spouse annuitants and orphaned child annuitants.

The Reserve (deficit) represents the difference between the actuarially determined present value of all future pension payments and the value of the Plan's present assets plus the present value of future contributions. A deficit indicates that additional assets will be needed to provide for future benefits, while a surplus indicates that present assets and future contributions exceed the expected requirements for future pension payments.

# NOTE 5. RESERVES FOR ACTUARIAL LIABILITIES (CONTINUED)

Net position restricted for pensions as of December 31, 2015 and 2014 were comprised of the following reserve surplus (deficit) balances:

	<u>2015</u>		<u>2014</u>
Prior Service Annuity Reserve	\$ 1,985,027,095	\$	1,901,579,646
City Contribution Reserve	818,548,960		793,701,286
Annuity Payment Reserve	993,495,418		956,431,718
Salary Deduction Reserve	674,895,147		654,502,027
Death Benefit Reserve (deficit)	(17,741,308)		(16,685,210)
Ordinary Disability Reserve	469,272		394,955
Supplementary Payment Reserve	7,933		44,310
Gift Reserve	9,098,559		7,729,076
Reserve (deficit)	 (3,418,699,883)		(3,261,689,407)
Total fiduciary net position			
for pension benefits	\$ 1,045,101,193	<u>\$</u>	1,036,008,401

### NOTE 6. INVESTMENTS

### **Investment Policies**

The Board of Trustees is responsible for establishing reasonable and consistent investment objectives, policies and guidelines governing the investment of Plan assets in accordance with the Illinois Compiled Statutes. The Plan is authorized to invest in bonds, notes, certificates of indebtedness, mortgage notes, real estate, stocks, shares, debentures, or other obligations or securities as set forth in the "prudent person" provisions of the Statutes. All of the Plan's financial instruments are consistent with the permissible investments outlined in the State Statutes and any index-linked financial instruments are limited to those indices that replicate the permissible investments outlined in the Statutes. During the years ended December 31, 2015 and 2014, there were no significant changes to the investment policies.

### Long-Term Expected Rate of Return

The Plan's investment policies in accordance with the Illinois Compiled Statutes establish the following target allocation across asset classes:

		Long-term
	Target	Expected Real
Asset Class	Allocation %	Rate of Return
Domestic fixed income	21.00%	3.00%
Cash deposits & short-term investments	4.00%	2.25%
Domestic large cap equities	24.00%	7.50%
Domestic small cap equities	16.00%	7.85%
International equities	25.00%	7.50%
Private equities	3.00%	8.50%
Real estate	2.00%	6.15%
Alternative investments	2.00%	5.25%
Commodities	3.00%	2.75%
Total	<u>100.00%</u>	

The long-term expected real rate of return on the Plan's investments was determined using an asset allocation study conducted by the Plan's investment management consultant in September 2011 in which best-estimate ranges of expected future real rates of return (net of pension plan investment expense and inflation) were developed for each major assets class. These ranges were combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation estimated at 2.25%. Best estimates or arithmetic real rates of return for each major asset class included in the Plan's target asset allocation as of December 31, 2015 are listed in the table above.

# **Annual Money-Weighted Rate of Return**

The annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was (0.1)% and 3.4% for the years ended December 31, 2015 and 2014, respectively. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

### **Investment Summary**

The following table presents a summarization of the fair value (carrying amount) of the Plan's investments as of December 31, 2015 and 2014. Investments that represent 5% or more of the Plan's net position are separately identified.

<u>Investments</u>	<u>2015</u>			<u>2014</u>
Cash deposits and short-term investments	\$	66,939,944	\$	48,055,082
Corporate bonds		107,812,011		111,583,549
Equities		517,424,574		634,792,663
Pooled funds:				
Fixed income		20,800,819		24,438,141
Equities		6,676,079		8,947,288
Private equity and venture capital		27,282,995		34,370,196
U.S. and Foreign Government obligations		55,569,442		60,318,196
Total	\$	802,505,864	<u>\$</u>	922,505,115

During 2015 and 2014, net realized gain on investments sold, reflecting the difference between the proceeds received and cost value of securities sold, was \$61,735,451 and \$74,013,652 respectively. These amounts are included in the net appreciation (depreciation) in fair value of investments as reported on the Combining Statements of Changes in Pension Plan Fiduciary Net Position and Health Insurance Supplement Plan Net Position. The calculation of realized gains and losses is independent of the calculation of net appreciation (depreciation) in the fair value of plan investments. Investments purchased in a previous year and sold in the current year result in their realized gains and losses being reported in the current year and their net appreciation (depreciation) in plan assets being reported in both the current year and the previous year(s).

The Plan does not isolate that portion of net appreciation (depreciation) in fair value of investments resulting from changes in the foreign exchange rate on investments from fluctuations arising from changes in the market prices of the securities. Such fluctuations are included with net appreciation (depreciation) in fair value of investments. Net realized gains and (losses) on foreign currency transactions represent net exchange gains or losses on closed foreign currency contracts, disposition of foreign currencies, and the difference between the amount of investment income and foreign withholding taxes recorded on the Plan's books and the U.S. dollar equivalent amounts actually received or paid. Net unrealized gains and (losses) on foreign currency transactions arise from changes in the value of open foreign currency contracts and assets and liabilities other than investments at the year end, resulting from changes in the exchange rate.

### **Custodial Credit Risk**

For deposits, custodial credit risk is the risk that, in the event of a bank failure, the Plan's deposits and collateral securities in the possession of an outside party would not be recoverable. Deposits are exposed if they are not insured or are not collateralized. At December 31, 2015 and 2014, the Plan's exposure to such risk was \$315,535 and \$1,022,694 respectively, comprised of foreign currencies held outside the custodial bank.

For investment securities, custodial credit risk is the risk that, in the event of the failure of the counter party, the Plan will not be able to recover the value of its investment or collateral securities that are in the possession of an outside party. Investment securities are exposed to custodial credit risk if they are not insured, or are not registered in the Plan's name, and held by the counter party. To minimize custodial credit risk, the Plan's custodian physically (or through agreement with a sub-custodian) maintains possession of securities owned by the Plan. In addition, the Plan seeks to maintain a fully invested position in accordance with established target asset allocation and minimize cash deposits. At December 31, 2015 and 2014, the Plan had no investments that were uninsured and unregistered, with securities held by the counterparty, or by its trust department or agent, but not held in the Plan's name.

### **Credit Risk**

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. U.S. Government obligations or obligations explicitly guaranteed by the U.S. Government are not considered to have credit risk and do not require disclosure of credit quality. The Plan establishes minimum investment rating guidelines for each investment manager based on their area of concentration and level of allowable risk. The following table presents a summarization at December 31, 2015 and 2014 of the lowest credit quality rating of investments in corporate bonds, foreign government obligations, short-term investments, and fixed income mutual funds as valued by Moody's Investors Service and/or Standard & Poor's, as applicable.

NOTE 6. INVESTMENTS (CONTINUED)

# Credit Risk (continued)

Type of Investment	Rating		<u>2015</u>	<u>2014</u>	
Cash deposits and short-term investments	Not Rated	<u>\$</u>	66,939,944	<u>\$</u>	48,055,082
Corporate bonds	Aaa/AAA	\$	5,184,224	\$	4,974,083
	Aa/AA		1,910,922		3,009,473
	A/A		14,067,137		13,648,286
	Baa/BBB		41,277,014		36,721,996
	Ba/BB		16,164,774		20,849,408
	B/B		7,672,590		9,274,254
	Caa/CCC		2,710,257		3,726,112
	Ca/CC		747,681		572,181
	C/C		-		349,781
	D/D		355,587		528,180
	Not Rated		8,444,316		8,083,223
U.S. Governmen	t Guaranteed		9,277,509		9,846,572
		<u>\$</u>	107,812,011	<u>\$</u>	111,583,549
Pooled funds - fixed income	Not Rated	<u>\$</u>	20,800,819	<u>\$</u>	24,438,141
U.S. and Foreign Government	Aaa/AAA	\$	12,149,802	\$	7,478,347
obligations	Aa/AA		7,515,638		10,332,204
-	A/A		3,213,581		5,476,966
	Baa/BBB		1,627,313		2,885,973
	Ba/BB		904,302		580,078
	Caa/CCC		28,381		-
	Not Rated		2,327,782		3,289,842
U.S. Governmen	nt Guaranteed		27,802,643		30,274,786
		\$	55,569,442	<u>\$</u>	60,318,196

### **Interest Rate Risk**

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Investments held for longer periods are subject to increased risk of adverse interest rate changes. Investments are diversified to minimize the risk of loss resulting from overconcentration of assets in a specific maturity period, a single issuer, or an individual class of securities. The Plan requires investment managers to display an overall level of interest rate risk that is consistent with the benchmark specified by the Plan. The following table presents a summarization of debt investments at December 31, 2015 and 2014 using the segmented time distribution method:

Type of Investment	<u>Maturity</u>		<u>2015</u>		<u>2014</u>
Cash deposits and short-term investments	Less than 1 year	<u>\$</u>	66,939,944	<u>\$</u>	48,055,082
Corporate bonds	Less than 1 year 1-5 years 5-10 years Over 10 years	\$ <u>\$</u>	1,918,487 16,614,801 41,175,720 48,103,003 107,812,011	\$ 	1,753,197 16,030,450 41,633,921 52,165,981 111,583,549
Pooled funds - fixed income	Less than 1 year 1-5 years 5-10 years	\$ <u>\$</u>	2,092,171 18,708,648 20,800,819	\$ <u>\$</u>	2,098,716 22,339,425 - 24,438,141
U.S. and Foreign Government obligations	Less than 1 year 1-5 years 5-10 years Over 10 years	\$ <u>\$</u>	4,160,926 12,379,961 13,353,671 25,674,884 55,569,442	\$ 	2,496,829 14,669,417 14,419,357 28,732,593 60,318,196

# Foreign Currency Risk

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or a deposit. The Plan requires investment managers to invest in at least ten countries if investing in foreign obligations and/or equities. The Plan's exposure to foreign currency risk at December 31, 2015 and 2014 is as follows:

	Fair Value		Fair Value		
		(USD)	(USD)		
Type of Investment		<u>2015</u>		<u>2014</u>	
Corporate bonds:					
Australian dollar	\$	492,920	\$	576,849	
Brazilian real		213,892		316,116	
British pound		- ,		356,827	
European euro		70,565		223,588	
Mexican peso		578,370		406,839	
U.S. dollar		106,456,264		109,703,330	
	<u>\$</u>	107,812,011	\$	111,583,549	
U.S. and Foreign Government obligations:					
Brazilian real	\$	429,079	\$	644,083	
Chilean peso		276,367		324,578	
Chinese yuan		376,426		-	
Colombian peso		443,708		-	
European euro		28,381		-	
Indian rupee		262,433		œ	
Mexican peso		2,648,702		3,676,977	
New Zealand dollar		-		227,861	
Philippines peso		-		986,920	
U.S. dollar		51,104,346		54,457,777	
	<u>\$</u>	55,569,442	<u>\$</u>	60,318,196	

# Foreign Currency Risk (continued)

	Fair Value		Fair Value		
	(USD)		(USD)		
Type of Investment		<u>2015</u>	<u>2014</u>		
Equities					
Equities: Australian dollar	\$	3,168,134	\$	3,114,290	
Brazilian real	Ψ	3,193,608	*	4,916,111	
British pound		33,251,695		38,614,339	
Canadian dollar		4,777,475		8,031,965	
Chilean peso		140,437		294,668	
Czech koruna		123,242		178,043	
Danish krone		1,585,894		1,804,069	
Egyptian pound		175,865		249,152	
European euro		42,951,628		46,027,686	
Hong Kong dollar		13,687,977		14,465,523	
Hungarian forint		223,077		112,458	
Indian rupee		4,239,988		6,091,334	
Indonesian rupiah		1,019,373		1,564,808	
Israeli shekel		235,290		531,012	
Japanese yen		35,198,932		40,041,013	
Malaysian ringgit		1,003,531		1,249,733	
Mexican peso		1,579,492		2,029,287	
New Zealand dollar		258,393		168,916	
Norwegian krone		388,975		1,956,223	
Pakistan rupee		379,601		301,674	
Philippines peso		178,333		259,255	
Polish zlotych		912,231		488,096	
Singapore dollar		743,233		580,596	
South African rand		2,985,339		3,727,042	
South Korean won		8,758,551		8,667,942	
Swedish krona		2,954,168		3,740,329	
Swiss franc		6,829,314		8,465,150	
Taiwan dollar		5,529,458		5,175,212	
Thailand baht		2,201,430		1,533,670	
Turkish lira		392,740		573,125	
United Arab Emirates dirham		•		104,014	
U.S. dollar		338,357,170		429,735,928	
	\$	517,424,574	\$	634,792,663	

### NOTE 7. SECURITIES LENDING

State Statutes and the Board of Trustees permit the Plan to lend its securities to broker-dealers and other entities with a simultaneous agreement to return collateral for the same securities in the future. The Plan's custodian, acting as the lending agent, lends securities for collateral in the form of cash, U.S. Government obligations and irrevocable letters of credit equal to 102% of the fair value of domestic securities plus accrued interest and 105% of the fair value of foreign securities plus accrued interest. The Plan is not restricted as to the type or amount of securities it may loan. The Plan does not have the right to sell or pledge securities received as collateral unless the borrower defaults.

The average term of securities loaned was 53 days in 2015 and 55 days in 2014; however, any loan may be terminated on demand by either the Plan or the borrower. Cash collateral may be invested in a short-term investment pool, which had an average weighted maturity at December 31, 2015 and 2014 of 47 days and 37 days, respectively. Cash collateral may also be invested in term loans in which the investments (term loans) match the term of the securities loaned.

As of December 31, 2015 and 2014, the fair value (carrying amount) of loaned securities was \$135,778,017 and \$156,276,791 respectively. As of December 31, 2015 and 2014, the fair value (carrying amount) of cash collateral received by the Plan was \$140,197,357 and \$160,968,881 respectively. The cash collateral is included as an asset and a corresponding liability on the statements of plan net position.

Although the Plan's securities lending activities are collateralized as described above, they involve both market and credit risk. In this context, market risk refers to the possibility that the borrower of securities will be unable to collateralize the loan upon a sudden material change in the fair value of the loaned securities. Credit risk refers to the possibility that counterparties involved in the securities lending program may fail to perform in accordance with the terms of their contracts.

Indemnification deals with the situation in which a client's securities are not returned due to the insolvency of a borrower. The contract with the lending agent requires it to indemnify the Plan if borrowers fail to return the securities (and if the collateral is inadequate to replace the securities lent) or fail to pay the Plan for income distributions by the issuers of securities while the securities are on loan.

There were no losses due to default of a borrower or the lending agent during the years ended December 31, 2015 and 2014.

### NOTE 7. SECURITIES LENDING (CONTINUED)

A summary of securities loaned at fair value as of December 31:

	<u>2015</u>	<u>2014</u>
Corporate bonds	\$ 8,543,365	\$ 9,449,189
Equities	123,823,761	141,247,084
U.S. and Foreign Government obligations	3,410,891	5,580,518
Total	\$ 135,778,017	\$ 156,276,791

### NOTE 8. DERIVATIVES

The Plan invests in derivative financial instruments as provided by the Plan's statement of investment policy. The Plan uses derivative financial instruments to gain exposure to an asset class or manage portfolio risk. A derivative security is a financial contract whose value is based on, or "derived" from, a traditional security, an asset, or a market index. Derivative instruments include options, forward contracts, swaps, and futures as part of the Plan's portfolio. Derivative transactions involve, to varying degrees, credit risk, interest rate risk and market risk. Credit risk is the possibility that a loss may occur because a party to a transaction fails to perform according to the previously agreed upon terms. Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Market risk is the possibility that a change in interest or currency rates will cause the value of a financial instrument to decrease or become more costly to settle.

The Plan's portfolio includes the following derivative instruments at December 31, 2015 and 2014:

	2015				2014	•	
	Notional		Fair		<b>Notional</b>		Fair
<u>Derivative</u>	<u>Value</u>		<u>Value</u>	<u>Value</u>		<u>Value</u>	
Options	\$	es.	\$ 32,609	\$	-	\$	(4,009)
Futures purchase commitments	(56,18	31,868)	-	(4	5,425,400)		190
Futures sales commitments	56,18	31,868	-	4	5,425,400		
Swap assets	6,61	16,146	28,986		556,188		17,046
Swap liabilities	(79	92,000)	(29,229)	60800000000000000000000000000000000000	•		500
Total	\$ 5,82	24,146	\$ 32,366	\$	556,188	\$	13,037

### NOTE 8. DERIVATIVES (CONTINUED)

The Plan uses options to reduce the risk of holding an asset. An option is a contract that conveys the right, but not the obligation, to buy (call) or sell (put) an item at an agreed upon price during a certain period of time or on a specific date. For the years ended December 31, 2015 and 2014, the options expire approximately one to six months after year end.

Futures contracts are used to provide exposure to an asset class using uninvested cash. These contracts are a legally binding agreement, made on the trading floor of a futures exchange, to buy or sell a commodity or financial instrument sometime in the future. Futures contracts have little credit risk, as organized exchanges are the guarantors. For the year ended December 31, 2015 the futures contracts mature from one month to 2 years after year end. For the year ended December 31, 2014, the futures contracts mature from one month to 3.5 years after year end.

Swaps are used by the Plan to hedge certain risks such as interest rate risk, or to speculate on changes in the underlying price of an asset. Traditionally, a swap is the exchange of one security for another to change the maturity, quality, structure of an issue, or because investment objectives have changed. For the year ended December 31, 2015, the swaps have maturity dates ranging from September 2021 through June 2036. For the year ended December 31, 2014, the swaps have maturity dates ranging from June 2019 through June 2036.

The Plan's derivative instruments are reported at fair value in equity investments on the combining statements of pension plan fiduciary net position and health insurance supplement plan net position. The gain or loss on derivative instruments is reported as part of investment income on the combining statements of changes in pension plan fiduciary net position and health insurance supplement plan net position.

### NOTE 9. EMPLOYER CONTRIBUTIONS RECEIVABLE - NET

Employer contributions receivable at December 31, 2015 and 2014 consist of the following:

	<u>2015</u>	<u>2014</u>
Employer contributions	\$ 252,886,411	\$ 120,492,876
Less allowance for uncollectible accounts	(13,560,007)	(9,628,476)
Total	\$ 239,326,404	<u>\$ 110,864,400</u>

As a result of Public Act 99-0506 as discussed in Note 15, approximately \$47,000,000 of employer contributions receivable at December 31, 2015 will not be received in 2016.

### NOTE 10. HEALTH INSURANCE SUPPLEMENT PLAN

### **Plan Description**

The City offers group health benefits to annuitants and their eligible dependents through the City of Chicago Annuitant Medical Benefits Program (the Program). The Plan and the City share in the cost of providing health care coverage to the annuitants or their surviving spouses who elect to participate in the Program. The Plan, in accordance with State Statutes, subsidizes the cost of monthly group health care premiums up to \$95 per month for non-Medicare recipients and \$65 per month for Medicare recipients. The remaining cost to participate in the Program is borne by the City and the annuitant.

Public Act 98-0043, effective June 28, 2013, terminates the retiree healthcare subsidy paid by the Plan after December 31, 2016.

At December 31, 2015 and 2014, the number of annuitants or surviving spouses whose cost to participate in the Program was subsidized totaled 2,829 and 2,948 respectively.

# **Summary of Significant Accounting Policies**

Actuarial Cost Method - Entry age normal

Actuarial Value of Assets - No assets (pay-as-you-go)

Amortization Method - Level dollar

Amortization Period - 3 year closed period commencing December 31, 2013

Healthcare Investment Rate of Return - 4.5% per year

OPEB Investment Rate of Return - 4.5% per year

Health Care Cost Trend Rate - 0.0% (fixed dollar subsidy)

**Projected Salary Increases** - 2015 - 3.75% per year, 2014 - 4.25% per year, plus an additional percentage related to service and promotion

**Method of Accounting** - The Health Insurance Supplement Plan's financial statements have been combined with the Plan's financial statements and are presented using the accrual basis of accounting. The Plan considers the premium subsidy an additional retirement benefit, with no contribution rate or asset allocation associated with it.

**Contributions** - The Plan funds the Health Insurance Supplement Plan on a "pay-as-you-go" basis.

# NOTE 10. HEALTH INSURANCE SUPPLEMENT PLAN (CONTINUED)

### **Summary of Significant Accounting Policies (continued)**

**Administrative Costs** - Administrative costs associated with the Health Insurance Supplement Plan are paid by the Plan's employer contributions.

Actuarial Valuations - Actuarial valuations of the Plan involve estimates of the value of reported amounts and assumptions about the probability of events far into the future. Actuarially determined amounts are subject to continual revision as results are compared to past expectations and new estimates are made about the future. Actuarial calculations of the Plan reflect a long-term perspective and are based on the benefits provided under the terms of the Plan in effect at the time of each valuation and on the historical pattern of sharing of costs between the employer and Plan members to that point.

### **Funded Status and Funding Progress**

As of December 31, 2015, the most recent actuarial valuation date, the Health Insurance Supplement Plan was 0% funded on an actuarial basis. The actuarial accrued liability for benefits was \$2,398,609 and the actuarial value of assets was \$0, resulting in an unfunded actuarial accrued liability (UAAL) of \$2,398,609. The covered payroll (annual payroll of active employees covered by the Plan) was \$465,231,594 and the ratio of the UAAL to the covered payroll was 0.52%.

The Schedule of Funding Progress, presented as Required Supplementary Information (RSI) following the notes to the financial statements, presents multi-year trend information about whether the actuarial values of the Plan assets are increasing or decreasing over time relative to the actuarial accrued liability for benefits.

### NOTE 11. DEFERRED COMPENSATION PLAN

The Plan offers its employees a deferred compensation plan established in accordance with Internal Revenue Code Section 457. The deferred compensation plan, which is funded through employee contributions, is available to all Plan employees and permits them to defer a portion of their salary until future years. Participation in the deferred compensation plan is optional. The deferred compensation is managed by a third party administrator. The assets of the deferred compensation plan are placed in trust with the third party for the exclusive benefit of the participants and their beneficiaries and are not considered assets of the Plan.

### NOTE 12. RELATED PARTY TRANSACTIONS

The Plan has allowed the Ende, Menzer, Walsh & Quinn Retirees', Widows' and Children's Assistance Fund (the Corporation) to utilize its facilities and equipment to accommodate the once a year distribution to widows and orphans in December at no additional expense to the Plan. This distribution by the Corporation, to the widows and orphans, had been handled by the Plan.

Three of the Plan's Trustees and the Executive Director are also directors of the Ende, Menzer, Walsh & Quinn Retirees', Widows' and Children's Assistance Fund.

During both of the years ended December 31, 2015 and 2014, the Firemen's Annuity and Benefit Fund of Chicago contributed to the Ende, Menzer, Walsh & Quinn Retirees', Widows' and Children's Assistance Fund from the balances in the gift reserve account as allowed under the discretionary authority granted by 40ILCS Act 5, Article 6-202 to render financial assistance to qualified widows and children annuitants of the participants of the Firemen's Annuity and Benefit Fund of Chicago.

### **NOTE 13. COMMITMENTS**

The Plan has a total capital commitment to twelve limited partnerships totaling \$65,500,000. As of December 31, 2015, \$53,527,490 has been invested, leaving a commitment of \$11,972,510.

### NOTE 14. LEASE AGREEMENTS

The Plan leases office facilities with lease payments subject to an escalation clause for increases in real estate taxes and maintenance charges. The lease runs through March 2020. The Plan also leases office space for disaster recovery at an offsite facility which is subject to an escalation clause for increases in real estate taxes and maintenance charges. The lease runs through September 2016.

Rental expense for 2015 and 2014 was \$225,472 and \$225,904 respectively.

Future minimum rental payments required under the noncancelable operating leases are as follows:

2020	Oran Colonia	33,273
2019		131,136
2018		127,221
2017		123,307
2016	\$	162,798
Year ending December 31,		

## NOTE 15. SUBSEQUENT EVENT

Subsequent to year end, Public Act 99-0506 was enacted into law on May 30, 2016. The Act amends sections of the Illinois Pension Code related to the Plan's contributions due from the City by significantly deferring contributions to future years. The deferment of the City's contributions is expected to reduce investment income and the growth of the Plan's assets and ultimately increase the City's contribution requirements in the future as follows:

- The Act reduces contributions due to the Plan at December 31, 2015 and paid during 2016 by approximately \$47,000,000.
- The Act specifically states contributions due to the Plan for the 2016 through 2019 Plan years, which is a reduction in contributions of approximately \$275,000,000 from the previous funding requirements as estimated by the Plan's actuary.
- The Act extends the target date of achieving a funding level of 90% from 2040 to 2055, which will increase the total contributions required to achieve the ultimate targeted funding level of 90% for the 2020 and subsequent Plan years.

The effects of the Act on the employer contributions, employer contributions receivable, and employer's net pension liability are not reflected in these financial statements.

## NOTE 16. PRONOUNCEMENTS ISSUED NOT YET EFFECTIVE

In March 2015, GASB issued Statement No. 72, Fair Value Measurement and Application, which provides guidance for fair value measurement and application. The Statement defines fair value, provides guidance for determining fair value measurement for financial reporting purposes and specifies required disclosures related to fair value measurements. Statement No. 72 is effective for the Plan's fiscal year ending December 31, 2016.

In June 2015, GASB issued Statement No. 73, Accounting and Financial Reporting for Pensions and Related Assets that are not within the Scope of GASB Statement No. 68, and Amendments to Certain Provisions of GASB Statements 67 and 68. Statement No. 73 establishes requirements for pension plans that are not administered through a trust (not covered by Statements 67 and 68). The requirements in Statement No. 73 for reporting pensions generally are the same as Statement 68, however, the lack of a trust that meets specified criteria is reflected in the measurements. Statement No. 73 is effective for the Plan's fiscal year ending December 31, 2016, except for provisions that address employers and governmental nonemployer contributing entities for pensions that are not within the scope of GASB Statement No. 68, which are effective for the Plan's fiscal year ending December 31, 2017.

## NOTE 16. PRONOUNCEMENTS ISSUED NOT YET EFFECTIVE (CONTINUED)

In June 2015, GASB issued Statement No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans. Statement No. 74 replaces the requirements of Statement No. 43, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans. This Statement addresses the financial reports of defined benefit Other Postemployment Benefit Plans that are administered through trusts that meet specified criteria. The Statement requires more extensive note disclosures and required supplementary information related to the measurement of the Other Postemployment Benefit liabilities for which assets have been accumulated, including information about the annual money-weighted rates of return on plan investments. Statement No. 74 is effective for the Plan's fiscal year ending December 31, 2017.

In June 2015, GASB issued Statement No. 75, Financial Reporting for Postemployment Benefits Other Than Pensions. Statement No. 75 replaces the requirements of Statement No. 45, Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions. Statement No. 75 requires governments to report a liability on the financial statements for the other postemployment benefits that they provide. Statement No. 75 also requires more extensive note disclosures and required supplementary information about the other postemployment benefit liabilities. Statement No. 75 is effective for the Plan's fiscal year ending December 31, 2018.

In June 2015, GASB issued Statement No. 76, *The Hierarchy of Generally Accepted Accounting Principles for State and Local Governments*. Statement No. 76 identifies the hierarchy of generally accepted accounting principles (GAAP) which consists of the sources of accounting principles used to prepare financial statements of state and local government entities in conformity with GAAP and the framework for selecting those principles. Statement No. 76 reduces the hierarchy to two categories of authoritative GAAP and addresses the use of authoritative and nonauthoritative literature in the event that the accounting treatment for a transaction or other event is not specified within a source of authoritative GAAP. Statement No. 76 is effective for the Plan's fiscal year ending December 31, 2016.

In August 2015, GASB issued Statement No. 77, *Tax Abatement Disclosures*. Statement No. 77 requires governments that enter into tax abatement agreements to disclose certain information about the agreements including descriptive information, the gross dollar amount of the taxes abated during the period and commitments made by a government as part of the agreement. Statement No. 77 is effective for the Plan's fiscal year ending December 31, 2016.

## NOTE 16. PRONOUNCEMENTS ISSUED NOT YET EFFECTIVE (CONTINUED)

In December 2015, GASB issued Statement No. 78, Pensions Provided Through Certain Multiple-Employer Defined Benefit Pension Plans. Statement No. 78 amends the scope and applicability of Statement No. 68, Accounting and Financial Reporting for Pensions - an amendment of GASB Statement No. 27, to exclude pensions provided to employees of state and local governmental employers through cost-sharing multiple-employer defined benefit pension plan that are not a state or local governmental pension plan, are used to provide defined benefit pensions both to employees of state or local governmental employers and to employees of employers that are not state or local governmental employers, and have no predominant state or local governmental employers. Statement No. 78 is effective for the Plan's fiscal year ending December 31, 2016.

In December 2015, GASB issued Statement No. 79, *Certain External Investment Pools and Pool Participants*. Statement No. 79 addresses accounting and financial reporting for certain external investment pools and pool participants. Statement No. 79 establishes criteria for an external investment pool to qualify for making the election to measure all of its investments at amortized cost for financial reporting purposes. Statement No. 79 is effective for the Plan's fiscal year ending December 31, 2016.

In January 2016, GASB issued Statement No. 80, Blending Requirement for Certain Component Units - an amendment of GASB Statement No. 14. Statement No. 80 amends the blending requirements for the financial statement presentation of component units of all state and local governments established in Statement No. 14, The Financial Reporting Entity, as amended. Statement No. 80 is effective for the Plan's fiscal year ending December 31, 2017.

In March 2016, GASB issued Statement No. 81, *Irrevocable Split-Interest Agreements*. Statement No. 81 improves accounting and financial reporting for irrevocable split-interest agreements by providing recognition and measurement guidance for situations in which a government is a beneficiary of the agreement. Statement No. 81 is effective for the Plan's fiscal year ending December 31, 2017.

In March 2016, GASB issued Statement No. 82, *Pension Issues - an amendment of GASB Statements No. 67, No. 68, and No. 73.* Statement No. 82 addresses issues regarding (1) the presentation of payroll-related measures in required supplementary information, (2) the selection of assumptions and the treatment of deviations from the guidance in an Actuarial Standard of Practice for financial reporting purposes, and (3) the classification of payments made by employers to satisfy employee (plan member) contribution requirements. Statement No. 82 is effective for the Plan's fiscal year ending December 31, 2017.

The Plan is currently evaluating the impact of adopting the above GASB Statements.

REQUIRED SUPPLEMENTARY INFORMATION - PENSION

## REQUIRED SUPPLEMENTARY INFORMATION - PENSION

## SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS

	<u>2015</u>	<u>2014</u>
Total pension liability		
Service cost	\$ 87,203,153	\$ 83,095,601
Interest	338,986,636	329,965,941
Changes of benefit terms	œ	-
Difference between expected and actual experience	(7,980,712)	-
Changes of assumptions	176,281,502	88,448,895
Expected benefit payments, including refunds of employee contributions	(278,017,071)	(263,893,338)
Pension plan administrative expense	(3,149,549)	(3,069,192)
Net change in total pension liability	313,323,959	234,547,907
Total pension liability		
Beginning of year	4,512,760,079	4,278,212,172
End of year	\$4,826,084,038	\$4,512,760,079
Plan fiduciary net position	<b>.</b>	ф. 10 <b>7</b> 22 4 200
Contributions - employer	\$ 236,104,362	\$ 107,334,399
Contributions - employee	46,552,247	48,056,393
Net investment income	7,595,562	30,867,889
Expected benefit payments, including refunds of employee contributions	(278,017,071)	(263,893,338)
Administrative expenses	(3,149,549)	(3,069,192)
Other	7,141	7,393
Net change in plan fiduciary net position	9,092,692	(80,696,456)
Plan fiduciary net position		
Beginning of year	1,036,008,401	1,116,704,857
End of year	\$1,045,101,093	\$1,036,008,401
Employer's net pension liability	\$3,780,982,945	\$3,476,751,678
Plan fiduciary net position as a percentage of the total pension liability	21.66%	22.96%
Covered-employee payroll	\$ 465,231,594	\$ 460,189,982
• • • •		
Employer's net pension liability as a percentage of covered-employee payro	<u>812.71</u> %	<u>755.50</u> %

As discussed in Note 15, the actuarial valuation is based on statutes in effect as of December 31, 2015 and does not consider the impact of Public Act 99-0506 which was passed on May 30, 2016.

# FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO REQUIRED SUPPLEMENTARY INFORMATION - PENSION

# SCHEDULE OF EMPLOYER CONTRIBUTIONS

## LAST TEN FISCAL YEARS

	2015	<u>2014</u>	<u>2013</u>	2012	2011		<u>2009</u>	2008	2007	<u>2006</u>
Actuarially determined contribution	\$ 323,544,987	\$ 304,265,411	\$ 294,877,895	\$ 271,505,718	\$ 250,056,273	\$ 218,388,037	\$ 203,866,919	\$ 189,940,561	\$ 188,201,379	\$ 160,246,525
Contributions in relation to the actuarially determined contribution Contribution deficiency	ly (236,104,362) \$ 87,440,625	(107,334,399) \$ 196,931,012	(103,669,015) \$ 191,208,880	(81,521,883) \$ 189,983,835	(82,869,839)	(80,947,311) \$ 137,440,726	(89,211,671) \$ 114,655,248	(81,257,754) \$ 108,682,807	(72,022,810) \$ 116,178,569	1 1
Covered employee payroll	\$ 465,231,594	\$ 460,189,982	\$ 416,491,784	\$ 418,964,763	\$ 425,385,354	\$ 400,404,320	\$ 400,912,173	\$ 396,181,778	\$ 389,124,547	\$ 387,442,074
Contributions as a percentage of covered employee payroll	50.75%	23.32%	24.89%	19.46%	19.48%	20.22%	22.25%	20.51%	18.51%	19.81%
Notes to Schedule										
Valuation Date:	December 31, 2015	15								
Methods and assumptions used to determine contribution rates as of valuation date: Actuarial cost method Prior to 201 Amortization method the firemen statutory co	luation date: Projected Unit Credit Prior to 2015, the tota the firemen to the Plan statutory contribution attains a 90 percent fu	projected Unit Credit Projected Unit Credit Projected Unit Credit Prior to 2015, the total City contribution is generated by a tax equal to 2.26 times the contributions by the firemen to the Plan two years prior to the year of the tax levy. Beginning in tax levy year 2015, the statutory contribution are equal to a level percentage of pay contribution determined so that the Plan attains a 90 percent funded ratio by the end of 2040 on an open group basis.	on is generated by a r to the year of the tr vel percentage of px e end of 2040 on an	tax equal to 2.26 ti ax levy. Beginning y contribution deta open group basis.	imes the contributi ; in tax levy year 20 ermined so that the	ons by 115, the Plan				
Remaining amortization period Asset valuation method	Not applicable 5 year smoothed market	narket								
Inflation	2.50% per year	2.50% per year 2.50% per year 8.50 per year	ated productivity an	d merit rates nlus ir	nflation					
Salary increases Investment rate of return	7.50% per year	na case on age of		4						
Retirement age	Experience-based Last updated for the study of the period	Experience-based table of rates that are specific to the type of eligibility condition. Last updated for the December 31, 2011 valuation, pursuant to an experience study of the period January 1, 2003 through December 31, 2010.	re specific to the typ 11 valuation, pursus rough December 31	be of eligibility conduit to an experience, 2010.	dition. e					
Mortality	RP-2000 Combine RP-2000 Combine post-retirement me 80 percent of the p	RP-2000 Combined Health Mortality Table, sex distinct for post-retirement mortality. RP-2000 Combined Health Mortality Table, sex distinct, set forward six years for post-retirement mortality and post-disabled mortality. Pre-retirement mortality is 80 percent of the post-retirement rates.	Table, sex distinct f Table, sex distinct, abled mortality. Pro	or post-retirement i set forward six year s-retirement mortal	mortality. rs for ity is					
Postretirement annuity increases	A retiree born before Is mandatory retirement restarting on the first of the month following attain maximum increase. For of the original annuity, maximum of 30 percen increases are equal to to commencing at age 60.	A retiree born before January 1, 1955, with at least 20 years of service or receiving a mandatory retirement minimum annuity, receives an increase of 3 percent of the original annuity, starting on the first of the month following the first anniversary of his retirement or the first of the month following attainment of age 55, whichever is later, and shall not be subject to a 30 percent maximum increase. For retirees born after January 1, 1955, automatic increases are 1.5 percent of the original annuity, commencing at age 60, or the first anniversary of retirement, if later, to a maximum of 30 percent. For participants that first became members on or after January 1, 2011, increases are equal to the lesser of 3.00 percent and 50 percent of CPI-U of the original benefit, commencing at age 60.	with at least 20 yee tity, receives an increving the first anniw, whichever is later, after January 1, 195 at age 60, or the first ants that first becam 0 percent and 50 pe	urs of service or recease of 3 percent of ersary of his retiren and shall not be su is, automatic increst anniversary of retire members on or a recent of CPI-U of t	with at least 20 years of service or receiving a y, receives an increase of 3 percent of the original annuity, ing the first anniversary of his retirement or the first of the whichever is later, and shall not be subject to a 30 percent fler January 1, 1955, automatic increases are 1.5 percent age 60, or the first anniversary of retirement, if later, to a not that first became members on or after January 1, 2011, percent and 50 percent of CPI-U of the original benefit,	he he 'i nt				

See Report of Independent Auditors.

The valuation is based on the statutes in effect as of December 31, 2015 and does not consider the impact of Public Act 99-0506 which was passed on May 30, 2016.

Other Information:

## FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO REQUIRED SUPPLEMENTARY INFORMATION - PENSION SCHEDULE OF INVESTMENT RETURNS

<u>2015</u> <u>2014</u>

Annual money-weighted rate of return, net of investment expense

-0.1%

3.4%

## REQUIRED SUPPLEMENTARY INFORMATION - HEALTH INSURANCE SUPPLEMENT

## REQUIRED SUPPLEMENTARY INFORMATION - HEALTH INSURANCE SUPPLEMENT

## SCHEDULE OF FUNDING PROGRESS

									UAAL as a
									Percentage
		Α	ctuarial	Acti	uarial Accrued	Unfunded	Funded	Covered	of Covered
Year End	ded	Valu	e of Assets	Lia	ability (AAL)	AAL (UAAL)	Ratio	Payroll	Payroll
December	31,		<u>(a)</u>		<u>(b)</u>	<u>(b-a)</u>	<u>(a/b)</u>	<u>(c)</u>	(b-a)/(c)
2010		\$	-	\$	48,221,878	\$ 48,221,878	0.00%	\$ 400,404,320	12.04%
2011		\$	-	\$	46,980,335	\$ 46,980,335	0.00%	\$ 425,385,354	11.04%
2012		\$		\$	46,205,891	\$ 46,205,891	0.00%	\$ 418,964,763	11.03%
2013	(1)	\$	œ	\$	7,691,833	\$ 7,691,833	0.00%	\$ 416,491,784	1.85%
2014	(1)	\$	•	\$	4,994,927	\$ 4,994,927	0.00%	\$ 460,189,982	1.09%
2015	(1)	\$		\$	2,398,609	\$ 2,398,609	0.00%	\$ 465,231,594	0.52%

<sup>(1)</sup> Public Act 98-0043, effective June 28, 2013, terminates the retiree healthcare subsidy paid by the Plan after December 31, 2016.

See accompanying notes to schedule of funding progress and schedule of employer contributions.

## FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO REQUIRED SUPPLEMENTARY INFORMATION - HEALTH INSURANCE SUPPLEMENT SCHEDULE OF EMPLOYER CONTRIBUTIONS

		Annual		Actual	Percent of		
	I	Required	I	Employer	ARC		
Year Ended	Co	ontribution	Co	ontribution	Contributed		
December 31,	<u>(</u>	<u>ARC) (a)</u>		<u>(b)</u>	<u>(b/a)</u>		
2010	\$	4,427,729	\$	2,644,290	59.72%		
2011	\$	4,469,292	\$	2,628,163	58.80%		
2012	\$	4,275,669	\$	2,622,445	61.33%		
2013	\$	4,213,697	\$	2,550,785	60.54%		
2014	\$	2,739,506	\$	2,471,055	90.20%		
2015	\$	2,611,401	\$	2,381,458	91.19%		

See accompanying notes to schedule of funding progress and schedule of employer contributions.

## REQUIRED SUPPLEMENTARY INFORMATION - HEALTH INSURANCE SUPPLEMENT

## Notes to Schedule of Funding Progress and Schedule of Employer Contributions

The information presented in the required supplementary schedules was determined as part of the actuarial valuation at the date indicated. Additional information as of the latest actuarial valuation follows:

Valuation date

December 31, 2015 and 2014

Actuarial cost method

Entry Age Normal

Actuarial value of assets

No assets (Pay-as-you-go)

Amortization method

Level Dollar

Amortization period

3 year closed period commencing December 31, 2013

Actuarial assumptions

Healthcare investment rate of return

4.50% per year

OPEB investment rate of return

4.50% per year

Health care cost trend rate

0.00% (fixed dollar subsidy)

Projected salary increases

2015 - 3.75% per year plus an additional percentage

related to service and promotion

2014 - 4.25% per year plus an additional percentage

related to service and promotion

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## SUPPLEMENTARY INFORMATION

## SCHEDULES OF ADMINISTRATIVE EXPENSES

Years Ended December 31,2015 and 2014

	<u>2015</u>	<u>2014</u>
Administrative expenses		
Disaster recovery	\$ 35,1	93 \$ 29,001
Employee benefits	426,2	98 380,879
Equipment and maintenance	36,9	98 38,015
General and administrative	184,0	91 168,073
Insurance and surety bond	159,1	70 156,653
Office salaries	1,473,8	1,574,975
Printing and postage	89,3	53,716
Professional and consulting fees		
Accounting	3,8	4,000
Actuarial	93,9	71,720
Audit	52,0	36,000
Consulting	18,3	18,311
Legal	257,9	998 202,631
Medical	87,9	103,081
Payroll administration	5,1	3,987
Rent	225,4	<u>172</u> <u>225,904</u>
Total administrative expenses	\$ 3,149,5	\$ 3,066,946

## SUPPLEMENTARY INFORMATION

## SCHEDULES OF INVESTMENT EXPENSES

YEARS ENDED DECEMBER 31, 2015 AND 2014

		<u>2015</u>		<u>2014</u>
INVESTMENT MANAGER EXPENSES				
Adams Street Partners, LLC	\$	129,880	\$	190,641
Apollo Global Management, LLC		61,995		78,520
Neuberger Berman - Private Equity		90,012		81,215
Brandes Investment Partners		358,764		386,242
Brown Advisory		221,905		244,287
Chicago Equity Partners, LLC		68,361		76,464
Credit Suisse		13,662		21,894
Earnest Partners, LLC		145,996		153,797
Epoch Investment Partners, Inc.		346,417		365,245
GlobeFlex Capital, L.P.		445,684		480,978
Jackson Square (Formerly Delaware Investments)		258,429		264,686
Keeley Asset Management Corp.		182,110		195,790
Kennedy Capital Management		201,257		223,779
Logan Capital Management, Inc.		170,039		184,704
Loomis, Sayles & Company, L.P.		263,212		280,834
LSV Asset Management		372,040		418,199
Mesirow Financial		73,130		78,970
Metropolitan West Capital Management, LLC		205,395		224,388
Muller & Monroe Asset Management, LLC		6,219		10,716
Neuberger Berman		365,743		395,211
Pomona Management, LLC		169,323		188,213
Rhumbline Advisers		18,765		22,720
The Boston Company Asset Management, LLC		169,466		184,525
Western Asset Management Company		193,898		208,456
William Blair & Company	***************************************	368,899	WOMENTONIA	393,970
		4,900,601		5,354,444
OTHER TRADING EXPENSES AND INVESTMENT FEES				
Northern Trust		247,599		323,402
INVESTMENT CONSULTING FEES		254 251		252 205
Callan Associates, Inc.		254,251		253,305
Investment custodian fees				
Northern Trust		57,500	***************************************	57,500
Total investment expenses	\$	5,459,951	\$	5,988,651

## SUPPLEMENTARY INFORMATION

### **ADDITIONS BY SOURCE**

Net Investment and Net Securities Total Plan Member Lending Year Ended **Employer** Income (Loss) <u>Other</u> **Additions** Contributions Contributions December 31, \$ 150,834,484 \$ 30,282 \$ 276,186,561 83,591,601 \$ 41,730,194 2010 \$ 85,498,002 33,594 \$ 114,998,732 \$ 51,917,510 \$ (22,450,374) \$ 2011 \$ 135,196,492 \$ 276,073,237 \$ 84,144,328 \$ 53,272,730 \$ 3,459,687 2012 \$ 190,532,880 \$ (57,079)\$ 339,215,819 \$ 106,219,800 \$ 42,520,218 2013 30,863,888 \$ 11,394 \$ 188,737,129 \$ 48,056,393 \$ \$ 109,805,454 2014 \$ (346,886)7,949,589 \$ 292,640,770 (1) \$ 238,485,820 \$ 46,552,247 2015

## **DEDUCTIONS BY TYPE**

				Annuitant		
Year Ended		Ad	lministrative	Health		Total
December 31,	<b>Benefits</b>	:	<u>Expenses</u>	<u>Care</u>	<u>Other</u>	<u>Deductions</u>
2010	\$ 213,159,055	\$	3,047,179	\$ 2,644,290	\$ 2,901,987	\$ 221,752,511
2011	\$ 218,897,479	\$	3,212,515	\$ 2,628,163	\$ 2,565,203	\$ 227,303,360
2012	\$ 228,585,731	\$	3,063,965	\$ 2,622,445	\$ 3,151,847	\$ 237,423,988
2013	\$ 247,057,741	\$	3,101,827	\$ 2,550,785	\$ 2,223,407	\$ 254,933,760
2014	\$ 261,571,672	\$	3,066,946	\$ 2,471,055	\$ 2,323,912	\$ 269,433,585
2015	\$ 274,459,754	\$	3,149,549	\$ 2,381,458	\$ 3,557,317	\$ 283,548,078

<sup>(1)</sup> As discussed in Note 15, does not include the impact of Public Act 99-0506 which was passed on May 30, 2016.