

TOWN OF LITTLETON, MASSACHUSETTS
MUNICIPAL ELECTRIC LIGHT
DEPARTMENT

Financial Statements

December 31, 2015

(With Accountants' Report Thereon)

Giusti, Hingston and Company
Certified Public Accountants
36 Jackman St., Unit 1 * Georgetown, MA 01833 * (Tel) 978-352-7470

Town of Littleton, Massachusetts
 Municipal Electric Light Department
 FINANCIAL STATEMENTS AND AUDITORS' REPORT
 For the Year Ended December 31, 2015

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INDEPENDENT AUDITORS' REPORT ON GENERAL PURPOSE FINANCIAL STATEMENTS –
TOWN OF THE LITTLETON, MASSACHUSETTS, ELECTRIC LIGHT DEPARTMENT

Board of Commissioners and Board of Selectmen
Town of Littleton, Massachusetts
39 Ayer Road
P.O. Box 2406
Littleton, MA 01460

We have audited the accompanying financial statements of the Town of Littleton, Massachusetts, Electric Light Department ("the Department"), and the related notes to the financial statements, as of and for the year ended December 31, 2015.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with 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.

Auditor's Responsibility

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

An audit involves 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 entity'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 entity's internal control. Accordingly, we express no such opinion. 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 above present fairly, in all material respects, the financial position of the Town of Littleton, Massachusetts, Electric Light Department, as of December 31, 2015, and the results of its operations and its cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, the retirement system schedules and the other post employment benefit schedules listed in the table of contents 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 inquiries 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.

Sincerely,

Giusti, Hingston and Company

Giusti, Hingston and Company

Certified Public Accountants

Georgetown, Massachusetts

August 11, 2016

Littleton Municipal Electric Light Department
Management's Discussion and Analysis
Required Supplementary Information
December 31, 2015

As management of the Littleton Municipal Electric Light Department, we offer readers of these financial statements this narrative overview and analysis of the financial activities of the Littleton Municipal Electric Light Department for the fiscal year ended December 31, 2015.

Financial Highlights

- The assets and deferred outflows of resources of the Littleton Municipal Electric Light Department exceeded its liabilities and deferred inflows of resources at the close of the most recent fiscal year by \$33,611,273 (*net position*).
- Governmental Accounting Standards Board Statement #68 (GASB 68) required reporting the Department's share of the Middlesex County Retirement System's net pension liability beginning in fiscal year 2015. As a result, a prior period adjustment in the amount of \$5,828,614 (debit) was made. In addition, a prior period adjustment in the amount of \$27,734 (credit) was made to reflect a deferred outflow of resources related to a debt refunding issue (GASB 65). The net effect of the prior period adjustments (\$5,800,880) caused a reduction in the Department's January 1, 2015 net position.
- The Department's total net position increased by \$1,267,102 or 3.3% (excluding the effects of the prior period adjustment).
- At the end of the current fiscal year, the balance in the unrestricted net position account was \$12,811,716, or 42.7% of total expenses. Unrestricted net assets decreased significantly due to reporting the Department's net pension liability,
- During fiscal year 2015, the Department continued funding its Other Post Employment Benefits (OPEB) liability. The balance in the OPEB Reserve as of December 31, 2015 was \$1,426,735.

Overview of the Financial Statements

The discussion and analysis are intended to serve as an introduction of the Littleton Municipal Electric Light Department's basic financial statements.

Proprietary funds - The Littleton Municipal Electric Light Department maintains one proprietary fund type. The Littleton Municipal Electric Light Department uses an enterprise fund to account for its electric operations.

Notes to the Financial Statements

The notes to the financial statements provide additional information that is necessary to acquire a full understanding of the data provided in the Department's basic financial statements.

Other Information

In addition to the basic financial statements and the accompanying notes, this report also presents *required supplementary information* concerning the Littleton Electric Light Department's progress in funding its obligation to provide pension and other post employment benefits to its employees.

Financial Analysis

Net Position

The statement of net position presents information on all of the Department's assets/deferred outflows and liabilities/deferred inflows, with the difference between them reported as net position. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the Department is improving or deteriorating.

Net position may serve over time as a useful indicator of a government's financial position. The following table reflects the condensed net position for the past two years.

	Business-Type Activities	Business-Type Activities
	2015	2014
Current Assets	\$ 10,325,597	\$ 10,133,413
Noncurrent Assets	13,013,951	12,013,336
Capital Assets	19,768,022	19,654,040
Total Assets	43,107,570	41,800,789
 Deferred Outflows of Resources	 40,559	 47,493
 Current Liabilities	 2,920,684	 2,492,391
Noncurrent Liabilities	6,616,172	7,011,720
Total Liabilities	9,536,856	9,504,111
 Net Position:		
Net Investment in Capital Assets	19,372,822	19,123,640
Restricted for Other Post Employment Benefits	1,426,735	1,184,199
Unrestricted Net Position	12,811,716	12,036,332
Total Net Position	\$ 33,611,273	\$ 32,344,171

The net position of the Department increased by \$1,267,102 during fiscal year 2015.

Changes in Net Position

The following condensed financial information was derived from the Department's Statement of Revenues, Expenses and Changes in Net Position. It reflects how the Departments net position has changed during the past two fiscal years.

	Business-Type Activities	Business-Type Activities
	2015	2014
Revenues:		
Operating Revenues	\$ 30,265,607	\$ 33,723,329
Nonoperating Revenues	977,938	722,855
Total Revenues	31,243,545	34,446,184

	Business-Type Activities	Business-Type Activities
	2015	2014
Expenses:		
Purchase Power	23,410,323	24,969,989
Operating	1,109,800	1,067,766
Maintenance	818,019	913,689
General and Administrative	2,519,985	2,636,939
Depreciation	991,029	950,803
In Lieu of Tax Payments	760,000	693,789
Contribution of Services to Water Department	296,301	284,200
Contribution to Schools and Towns	43,411	368,607
Interest on Long Term Debt	27,575	26,037
Total Expenses	29,976,443	31,911,819
Increase (Decrease) in Net Position	\$ 1,267,102	\$ 2,534,365

Light rates are structured to cover substantially all operating costs related to the activity.

Financial Analysis of the Department's Funds

Proprietary Fund

Electric Enterprise Fund – The following table reflects the trend in all the components of net position for the past eight years.

Fiscal Year	Invested in Capital Assets			Total
	Debt	Unrestricted	Restricted	Net Positions
2008	\$ 15,159,291	\$ 17,236,532	\$ -	\$ 32,395,823
2009	15,530,464	18,092,553	-	33,623,017
2010	16,530,904	18,173,104	127,268	34,831,276
2011	16,777,309	19,215,636	370,151	36,363,096
2012	18,552,786	16,993,631	559,528	36,105,945
2013	18,704,430	16,019,621	886,635	35,610,686
2014	19,123,640	12,008,598	1,184,199	32,316,437
2015	19,372,822	12,811,716	1,426,735	33,611,273

Capital Asset and Debt Administration

Capital assets. The Littleton Municipal Electric Light Department's investment in capital assets as of December 31, 2015, amounts to \$19,768,022 (net of accumulated depreciation). This investment in capital assets includes land, buildings, improvements, infrastructure, equipment and vehicles. A comparison of the past two years is as follows:

	<u>2015</u>	<u>2014</u>
Land	\$ 1,312,676	\$ 1,312,676
Work In Process	-	4,391
Transmission Plant	-	1,000
Distribution Plant	10,624,552	10,390,646
General Plant	7,830,794	7,945,327
Total	<u>\$ 19,768,022</u>	<u>\$ 19,654,040</u>

Debt

The Department's outstanding debt for the past two years is as follows.

	<u>2015</u>	<u>2014</u>	<u>Increase (Decrease)</u>
Business-Type Activities			
Electric Light Department	<u>\$ 395,200</u>	<u>\$ 530,400</u>	<u>\$ (135,200)</u>

The Department's long term debt decreased by \$135,200 or 25% during fiscal year 2015.

Fiscal Year 2016 Budget

The Department's fiscal year 2016 budget will be funded primarily by electric rates. Fluctuations in power costs are anticipated. However, the Department has the ability to increase rates in order to offset any additional power costs.

Littleton Electric Light Department
 Statement of Net Position
 December 31, 2015
 (Continued on Page 8)

Assets

Current:

Unrestricted Cash	\$ 5,859,784
Accounts Receivable:	
Customer (Net of Allowance for Uncollectible Accounts)	2,886,163
Other	115,931
Prepaid Expenses	602,859
Plant Inventory	860,860
Total Current Assets	<u>10,325,597</u>

Noncurrent:

Restricted Cash	1,488,386
Restricted Investments	11,525,565
Fixed Assets:	
Non-Depreciable	1,312,676
Depreciable, Net of Accumulated Depreciation	18,455,346
Total Noncurrent Assets	<u>32,781,973</u>
Total Assets	<u>43,107,570</u>

Deferred Outflows of Resources

Debt Refunding	20,800
Pension	19,759
Total Deferred Outflows of Resources	<u>40,559</u>

Liabilities

Current:

Customer Deposits	54,075
Jobbing Deposits	116,124
Accrued Interest Payable	4,770
Accounts Payable & Other Accrued Liabilities	2,574,131
Bonds Payable	133,467
Accrued Compensated Absences Payable	38,117
Total Current Liabilities	<u>2,920,684</u>

Littleton Electric Light Department
Statement of Net Position
December 31, 2015
(Continued from Page 7)

Noncurrent:

Bonds Payable	261,733
Accrued Compensated Absences Payable	222,372
Net Pension Liability	5,851,043
Other Post Employment Benefits Payable	281,024
Total Noncurrent Liabilities	<u>6,616,172</u>
Total Liabilities	<u>9,536,856</u>

Net Position

Net Investment in Capital Assets	19,372,822
Restricted for Other Post Employment Benefits	1,426,735
Unrestricted	12,811,716
Total Net Position	<u>\$ 33,611,273</u>

Littleton Electric Light Department
 Statement of Revenues, Expenses and Changes in Net Position
 For the Year Ended December 31, 2015

Operating Revenues:	
Operating Revenue	<u>\$ 30,265,607</u>
 Total Operating Revenues	<u>30,265,607</u>
 Operating Expenses:	
Purchase Power	23,410,323
Operating	1,109,800
Maintenance	818,019
General and Administrative	2,519,985
Depreciation	991,029
 Total Operating Expenses	<u>28,849,156</u>
 Operating Income (Loss)	<u>1,416,451</u>
 Nonoperating Revenues (Expenses):	
Merchandising and Jobbing Revenue	664,288
Earnings on Investments	303,647
Gain (Loss) on Disposition of Capital Assets	10,003
In Lieu of Tax Payments and Indirect Cost Reimbursement	(760,000)
Contribution of Services to Water Department	(296,301)
Contribution to Schools and Towns	(43,411)
Interest on Long Term Debt	(27,575)
 Total Nonoperating Revenues (Expenses):	<u>(149,349)</u>
 Net Increase (Decrease) in Net Position	<u>1,267,102</u>
 Net Position, January 1, 2015	<u>38,145,051</u>
 Prior Period Adjustment	<u>(5,800,880)</u>
 Adjusted Net Position, January 1, 2015	<u>32,344,171</u>
 Net Position, December 31, 2015	<u>\$ 33,611,273</u>

Littleton Electric Light Department
 Statement of Cash Flows
 For the Year Ended December 31, 2015
 (Continued on Page 11)

Cash Flows from Operating Activities:

Receipts from Customers	\$ 31,825,296
Payments to Employees and Vendors	<u>(27,860,219)</u>
Net Cash Flows Provided (Used)	
by Operating Activities	<u>3,965,077</u>

Cash Flows from Non Capital Related Financing Activities:

Merchandising and Jobbing	672,835
Other Income	4,003
Payment In Lieu of Taxes	(760,000)
Contribution of Services to Water Department	(296,301)
Contribution to Schools and Towns	<u>(43,411)</u>
Net Cash Flows Provided (Used) by Non Capital	
Related Financing Activities	<u>(422,874)</u>

Cash Flows from Capital and Related Financing Activities:

Acquisition and Construction of Capital Assets	(1,099,011)
Principal Payments on Bonds	(135,200)
Interest Expense	<u>(22,541)</u>
Net Cash Flows Provided (Used) by Capital	
and Related Financing Activities	<u>(1,256,752)</u>

Cash Flows from Investing Activities:

Earnings on Investments	<u>303,647</u>
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Net Cash Flows Provided (Used)	
by Investing Activities	<u>303,647</u>

Net Increase (Decrease) in Cash	
and Cash Equivalents	<u>2,589,098</u>

Cash and Cash Equivalents, January 1, 2015	<u>16,284,637</u>
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Cash and Cash Equivalents, December 31, 2015	<u>\$ 18,873,735</u>
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Littleton Electric Light Department
Statement of Cash Flows
For the Year Ended December 31, 2015
(Continued from Page 10)

Reconciliation of Net Income to Net Cash Provided (Used)

by Operating Activities:

Operating Income (Loss)	\$ 1,416,451
<hr/>	
Adjustments to Reconcile Operating Income to Net Cash	
Provided (Used) by Operating Activities:	
Depreciation and Amortization Expense	991,029
(Increase) Decrease in Accounts Receivable	1,559,689
(Increase) Decrease in Prepayments	(28,771)
Increase (Decrease) in Payables	26,679
Net Cash Provided by Operating Activities	<hr/> <u>\$ 3,965,077</u>

Town of Littleton, Massachusetts
Municipal Electric Light Department
Notes to the Financial Statements
December 31, 2015

I. Summary of Significant Accounting Policies

The significant accounting policies of the Electric Light Department are as follows:

(a) Reporting Entity

The Littleton Municipal Electric Light Department is an enterprise fund of the Town of Littleton, Massachusetts. The Light Department purchases power from various sources and sells it to customers in the Towns of Littleton and Boxborough at rates submitted to the Massachusetts Department of Telecommunications and Energy. The Board of Commissioners is an elected Board that has full charge of operations and management of the Plant. There are no entities which are component units of the Littleton Electric Light Department.

(b) Regulation and Basis of Accounting

The Light Department maintains its books in accordance with the accounting practices prescribed by the Massachusetts Department of Telecommunications and Energy (DTE). The Department's policy is to prepare its financial statements in accordance with generally accepted accounting principles (GAAP) except that depreciation is charged at a fixed percentage rate (in accordance with practices approved by the DTE). Under the GAAP basis of accounting depreciation is charged over the useful life of the asset.

In accordance with Massachusetts law, the electric rates of the Light Department are set by the Municipal Light Board. Rate schedules are filed with the Massachusetts Department of Telecommunications and Energy. While the DTE exercises general supervisory authority over the Light Department, the Light Department's rates are not subject to DTE approval.

(c) Depreciation

The general laws of Massachusetts allow utility plants in service to be depreciated at an annual percentage rate. In order to change this rate, approval must be obtained from the Department of Telecommunications and Energy. Changes in annual depreciation rates may be made for financial factors relating to cash flow rather than for engineering factors relating to estimates of useful lives. The Light Department used a depreciation rate of 3% for fiscal year 2015.

(d) Revenues

Revenues from the sale of electricity are recorded on the accrual basis. Bills are prepared monthly (on a cycle basis) based on meter readings.

(e) Unbilled Revenue

Customers are billed in one of twelve monthly cycles. As a result, some current fiscal year usage is not billed until the subsequent fiscal year. An accounting estimate is made to recognize revenues related to the unbilled usage.

(f) Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported

amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements. Estimates also affect the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

II. Prepaid Expenses

The balance in this account represents various purchased power prepayments as of December 31, 2015. It also, includes prepayments related to insurance and the Middlesex County Retirement assessment.

III. Deposits and Investments

a. Deposits

Custodial Credit Risk

Custodial credit risk is the risk that in the event of a bank failure, the Department's deposits may not be returned to it. The Department's deposits are pooled with the deposits of the Town of Littleton, Massachusetts. As a result, the custodial credit risk of the Department is intermingled with the custodial credit risk of the Town.

The Town has a formal investment policy that addresses custodial credit risk. Key sections of the policy are detailed below:

- Bank accounts or Certificate of Deposit accounts (CD's) with no limit to the length of maturity from the date of purchase may be made for unlimited amounts if the depository institution is a member of the Depository Insurance Fund (DIF) or the Share Insurance Fund (SIF). These funds insure all deposits held at a member Massachusetts state charted savings bank or co-operative bank respectively.
- Bank accounts, Certificate of Deposit accounts (CD's) and/or brokered CD's with no limit to the length of maturity from the date of purchase up to the FDIC coverage limits. All account balances in a single depository institution are considered in the aggregate to determine FDIC coverage limits.
- Bank accounts or Certificate of Deposit accounts (CD's) with no limit to the length of maturity from the date of purchase may be made for unlimited amounts if the deposit is fully collateralized by a third party agreement or securities owned by a depository institution that have been segregated from the day-to-day assets of the institution in order to provide collateralization.
- Uninsured or unsecured bank accounts or Certificate of Deposit accounts (CD's) with a final maturity no greater than one year from the date of purchase are allowed to be held by the Town subject to the following limitations:
 - The aggregate uninsured portion of deposits held at any one institution cannot exceed 5% of the institutions total deposits reflected on the bank's last filed FDIC Call Report.
 - No more than 10% of the Town's funds, applicable to this section, may be held in uninsured accounts.
 - The credit worthiness of the depository will be tracked by Treasurer utilizing the Veribanc rating report.

b. Investments

i) Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. The Town's policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates is as follows:

- Short-term investments for funds covered in Section I are by statute limited to one year or less in maturity with all securities held to maturity.
- Longer term investments, other than trust funds under the direction of the Commissioners of Trust Funds, will be made for periods not longer than five years, maintaining an average maturity no greater than three years for the portfolio.

ii) Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The Town's policy relating to credit risk is as follows.

- Longer term investments in fixed income securities, other than trust funds under the direction of the Commissioners of Trust Funds, will be made principally for capital preservation and income potential. Corporate debt must be rated "A" or better by either S&P or Moody's rating services. If a security falls below the "A" rating, the security will be monitored by the Treasurer and advisor, if applicable. The security will be noted as an exception to policy if held in the portfolio. The Treasurer and/or advisor may sell the security if a further decline in value is expected.

iii) Concentration of Credit Risk

Concentration of credit risk is the risk of loss attributed to the magnitude of a government's investment in a single issuer. The Town's policy relating to concentration of credit risk is as follows:

- The Town will minimize any concentration of credit risk by diversifying the investment portfolio so that the impact of potential losses from any one type of security or issuer will be minimized. Specific investment amounts and/or issuer limitations are addressed in the policy.

iv) Foreign Currency Risk

Foreign currency risk is the risk that changes in foreign exchange rates will adversely affect the fair value of an investment or deposit. The Town's policy states that it will not invest in any instrument exposed to foreign currency risk.

IV. Restricted Cash and Investments

Restricted cash and investments as of December 31, 2015 consist of the following:

<u>Account</u>	<u>Cash</u>	<u>Investments</u>
Depreciation Fund	\$ -	\$ 3,529,898
Rate Stabilization	1,488,386	5,597,660
Pension Trust	-	971,271
Other Post Employment Benefits Trust	-	1,426,736
Total	<u><u>\$ 1,488,386</u></u>	<u><u>\$ 11,525,565</u></u>

V. Long-Term Debt

Bonds payable outstanding at December 31, 2015, consist of general obligation bonds of the Town of Littleton, Massachusetts. The Electric Light Department submits payments to the Town for principal and interest payments as they become due. The bonds outstanding at year end are as follows:

(a) General Obligation Bonds Outstanding at December 31, 2015

<u>General Obligation Bond</u>	<u>Sale Date</u>	<u>Borrowing</u>	<u>Interest Rate</u>	<u>Original</u>		<u>Balance</u>		<u>December 31, 2015</u>
				<u>to Maturity</u>	<u>Final Maturity</u>	<u>January 1, 2015</u>	<u>Issued</u>	
Building Renovation/Addition	12/15/2007	\$ 1,239,333	4.10%		2027	\$ 530,400	\$ -	\$ 135,200 395,200

(b) Summary of Debt Service Requirements to Maturity

<u>Fiscal Year Ended</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2016	\$ 133,467	\$ 16,120	\$ 149,587
2017	131,733	11,115	142,848
2018	130,000	6,175	136,175
Total	<u><u>\$ 395,200</u></u>	<u><u>\$ 33,410</u></u>	<u><u>\$ 428,610</u></u>

(c) Bond Authorizations

The Department did not have any Loans Authorized but Unissued as of December 31, 2015.

iii Changes in the long-term liabilities for the year ended December 31, 2015 are as follows:

	<u>January 1, 2015</u>	<u>Additions</u>	<u>Deductions</u>	<u>December 31, 2015</u>	<u>Current</u>
Bonds Payable	\$ 530,400	\$ -	\$ (135,200)	\$ 395,200	\$ 133,467
Compensated Absences	319,807	132,566	(191,884)	260,489	38,117
Other Post Employment Benefits	503,056		(222,032)	281,024	-
Net Pension Liability	<u>5,828,614</u>	<u>22,429</u>	<u>-</u>	<u>5,851,043</u>	<u>-</u>
 Total	 \$ 7,181,877	 \$ 154,995	 \$ (549,116)	 \$ 6,787,756	 \$ 171,584

iv Refunding of Long Term Debt

On December 15, 2007, the Town issued \$4,670,000 of General Obligation Refunding Bonds with an average interest rate of 3.63% to 5.00% to advance refund \$4,420,000 of outstanding debts with interest rates from 4.80% to 7.00% (\$1,239,333 of the new rate was attributable to the Light Department). The net proceeds (after payment of underwriting fees, insurance and other issuance costs) were used to purchase U.S. government securities. Those securities were deposited in an irrevocable trust with an escrow agent to provide for all future debt service payments on the refunded bonds. As a result, the refunded bonds are considered to be defeased. The refunded debt will be paid at the end of the Light Department's fiscal year 2018.

<u>Fiscal Year</u>	<u>Light Department</u> Old Debt <u>& Interest</u>	<u>Light Department</u> Refunding Bonds <u>Principal</u> <u>& Interest</u>
2016	\$148,622	\$149,587
2017	141,245	142,848
2018	<u>133,770</u>	<u>136,175</u>
Total	<u>\$423,637</u>	<u>\$428,610</u>

The net savings for the Light Department as a result of the refunding issue was \$56,381.

VI. Capital Assets

Capital asset activity for the year ended December 31, 2015 is as follows:

Assets	Cost			Accumulated Depreciation			Reversed Depreciation		Accumulated Depreciation		Net Book Value
	January 1, 2014	Additions	Dispositions	December 31, 2015	January 1, 2014	Depreciation	December 31, 2015	Depreciation	December 31, 2015	Depreciation	
Nondepreciable Assets											
Land and Land Rights	\$ 1,312,676	\$ -	\$ -	\$ 1,312,676	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,312,676
Work in Process	4,391	9,729	(14,120)	-	-	-	-	-	-	-	-
Total Nondepreciable Assets	1,317,067	9,729	(14,120)	1,312,676	-	-	-	-	-	-	1,312,676
Depreciable Assets											
Transmission Plant:											
Overhead Conductors and Devices	11,228	-	(11,228)	-	10,228	302	(10,530)	-	-	-	-
Total Utility Plant	11,228	-	(11,228)	-	10,228	302	(10,530)	-	-	-	-
Distribution Plant:											
Structures and Improvements	448,530	-	(36,691)	411,839	310,113	11,734	(36,691)	285,156	126,683		
Station Equipment	4,757,994	-	-	4,757,994	2,132,366	124,473	-	2,256,839	2,501,155		
Storage Battery Equipment	12,026	-	-	12,026	1,247	315	-	1,562	10,464		
Poles, Towers and Fixtures	1,683,657	103,309	(39,331)	1,747,635	659,187	44,046	(39,331)	663,902	1,083,733		
Overhead Conductors and Equipment	3,312,962	66,580	(26,233)	3,353,309	1,856,975	86,964	(26,931)	1,917,008	1,436,301		
Underground Conduits	1,044,403	110,088	(8,186)	1,146,305	452,754	27,322	(8,186)	471,890	674,415		
Underground Conductors and Devices	2,529,416	19,450	(28,004)	2,520,862	927,296	66,172	(28,004)	965,464	1,555,398		
Line Transformers	3,523,687	279,542	(100,056)	3,703,173	1,483,907	92,183	(100,056)	1,476,034	2,227,139		
Services	878,949	45,412	(35,515)	888,846	650,188	22,994	(35,515)	637,667	251,179		
Meters	639,438	43,431	(33,494)	649,375	113,692	16,728	(33,494)	96,926	552,449		
Installations on Customers' Premises	213,848	3,345	(4,296)	212,897	139,888	5,594	(4,296)	141,186	71,711		
Street Lighting and Signal Systems	202,446	65,872	(5,723)	262,595	129,097	5,296	(5,723)	128,670	133,925		
Total Distribution Plant	19,247,356	737,029	(317,529)	19,666,856	8,856,710	503,821	(318,227)	9,042,304	10,624,552		
General Plant:											
Structures and Improvements	8,533,640	14,120	(31,442)	8,516,318	2,759,811	223,060	(31,442)	2,951,429	5,564,889		
Office Equipment	1,220,220	64,335	(21,774)	1,262,781	438,868	122,022	(21,774)	539,116	723,665		
Transportation Equipment	2,361,761	262,911	(102,903)	2,521,769	1,796,711	98,509	(102,903)	1,792,317	729,452		
Stores Equipment	24,212	-	(1,297)	22,915	8,409	633	(1,297)	7,745	15,170		
Tools, Shop and Garage Equipment	469,445	15,505	(10,056)	474,894	249,030	12,281	(10,056)	251,255	223,639		
Laboratory & Testing Equipment	342,602	-	(1,633)	340,969	103,356	8,963	(1,633)	110,686	230,283		
Power Operated Equipment	313,626	-	(101,809)	211,817	289,466	8,205	(101,809)	195,862	15,955		
Communications Equipment	421,090	-	(6,207)	414,883	148,492	11,016	(6,207)	153,301	261,582		
Miscellaneous Equipment	84,735	15,502	-	100,237	31,861	2,217	-	34,078	66,159		
Total General Plant	13,771,331	372,373	(277,121)	13,866,583	5,826,004	486,906	(277,121)	6,035,789	7,830,794		
Total Depreciable Assets	33,029,915	1,109,402	(605,878)	33,533,439	14,692,942	991,029	(605,878)	15,078,093	18,455,346		
Total Capital Assets	\$ 34,346,982	\$ 1,119,131	\$ (619,998)	\$ 34,846,115	\$ 14,692,942	\$ 991,029	\$ (605,878)	\$ 15,078,093	\$ 19,768,022		

VII. Accounts Receivable Customer - Reserve for Uncollectible Accounts

The accounts receivable on the statement of net position are as follows

Customer Accounts Receivable	\$ 2,916,372
Allowance for Uncollectable	<u>(30,209)</u>
	<hr/>
Total Customer Accounts Receivable - Net	\$ <u>2,886,163</u>
	<hr/>
Other:	
Jobbings Receivable	\$ <u>115,931</u>
	<hr/>

VIII. Retirement System

a. General Information about the Pension Plan
Plan Description

The Department provides pension benefits to eligible employees by contributing to the Middlesex County Retirement System, a cost sharing multiple-employer defined benefit pension plan administered by the Middlesex County Retirement System. The System is administered by a five member board on behalf of all eligible current employees and retirees. The system provides retirement benefits, cost of living adjustments, disability benefits and death benefits.

The system is a member of the Massachusetts Contributory Retirement System and is governed by Chapter 32 of the Massachusetts General Laws (M.G.L.). The authority to establish and amend benefit provisions requires a statutory change to Chapter 32. The Middlesex County Retirement System issues a stand-alone financial report that is available to the public at:

<http://www.middlesexretirement.org/MCRS%20Final%20Audit%20Report%2012-31-14%20Financial%20Statements%20and%20GASB%2068.pdf> or by writing to the Middlesex County Retirement System, 25 Linnell Circle, P.O. Box 160, Billerica, Massachusetts 01865.

Benefits Provided

The Middlesex County Retirement System provides retirement, disability and death benefits as detailed below:

Retirement Benefits

Employees covered by the Contributory Retirement Law are classified into one of four groups depending on job classification. Group 1 comprises most positions in state and local government. It is the general category of public employees. Group 4 comprises mainly police and firefighters. Group 2 is for other specified hazardous occupations. (Officers and inspectors of the State Police are classified as Group 3.)

For employees hired prior to April 2, 2012, the annual amount of the retirement allowance is based on the member's final three-year average salary multiplied by the number of years and full months of creditable service at the time of retirement and multiplied by a percentage according to the table below based on the age of the member at retirement.

<u>Benefit %</u>	<u>Group 1</u>	<u>Group 2</u>	<u>Group 4</u>
<i>Hired on or before April 1 2012</i>			
2.50%	65+	60+	55+
2.40%	64	59	54
2.30%	63	58	53
2.20%	62	57	52
2.10%	61	56	51
2.00%	60	55	50
1.90%	59	N/A	49
1.80%	58	N/A	48
1.70%	57	N/A	47
1.60%	56	N/A	46
1.50%	55	N/A	45

For employees hired on April 2, 2012 or later, the annual amount of the retirement allowance is based on the member's final five-year average salary multiplied by the number of years and full months of creditable service at the time of retirement and multiplied by a percentage according to the tables below based on the age of the member at retirement:

<u>Benefit %</u>	<u>Group 1</u>	<u>Group 2</u>	<u>Group 4</u>
<i>Hired after April 1 2012</i>			
2.50%	67+	62+	57+
2.35%	66	61	56
2.20%	65	60	55
2.05%	64	59	54
1.90%	63	58	53
1.75%	62	57	52
1.60%	61	56	51
1.45%	60	55	50

For all employees, the maximum annual amount of the retirement allowance is 80 percent of the member's final average salary. Any member who is a veteran also receives an additional yearly retirement allowance of \$15 per year of creditable service, not exceeding \$300. The veteran allowance is paid in addition to the 80 percent maximum.

Retirement Benefits - Superannuation

Members of Group 1, 2 or 4 hired prior to April 2, 2012 may retire upon the attainment of age 55. For retirement at ages below 55, twenty years of creditable service is required.

Members hired prior to April 2, 2012 who terminate before age 55 with ten or more years of creditable service are eligible for a retirement allowance upon the attainment of age 55 (provided they have not withdrawn their accumulated deductions from the Annuity Savings Fund of the System).

Members of Group 1 hired April 2, 2012 or later may retire upon the attainment of age 60. Members of Group 2 or 4 hired April 2, 2012 or later may retire upon the attainment of age 55.

Members hired April 2, 2012 or later who terminate before age 55 (60 for members of Group 1) with ten or more years of creditable service are eligible for a retirement allowance upon the attainment of age 55 (60 for members of Group 1) provided they have not withdrawn their accumulated deductions from the Annuity Savings Fund of the System.

Ordinary Disability Benefits

A member who is unable to perform his or her job due to a non-occupational disability will receive a retirement allowance if he or she has ten or more years of creditable service and has not reached age 55. The annual amount of such allowance shall be determined as if the member retired for superannuation at age 55 (age 60 for Group 1 members hired on or after April 2, 2012), based on the amount of creditable service at the date of disability. For veterans, there is a minimum benefit of 50 percent of the member's most recent year's pay plus an annuity based on his or her own contributions.

Accidental Disability Benefit

For a job-connected disability, the benefit is 72 percent of the member's most recent annual pay plus an annuity based on his or her own contributions, plus additional amounts for surviving children. Benefits are capped at 75 percent of annual rate of regular compensation for employees who become members after January 1, 1988.

Death Benefits

In general, the beneficiary of an employee who dies in active service will receive a refund of the employee's own contributions. Alternatively, if the employee were eligible to retire on the date of death, a spouse's benefit will be paid equal to the amount the employee would have received under Option C. The surviving spouse of a member who dies with two or more years of credited service has the option of a refund of the employee's contributions or a monthly benefit regardless of eligibility to retire, if they were married for at least one year. There is also a minimum widow's pension of \$500 per month, and there are additional amounts for surviving children.

If an employee's death is job-connected, the spouse will receive 72 percent of the member's most recent annual pay, in addition to a refund of the member's accumulated deductions, plus additional amounts for surviving children. However, in accordance with Section 100 of Chapter 32, the surviving spouse of a police officer, firefighter or corrections officer who is killed in the line of duty will be eligible to receive an annual benefit equal to the maximum salary held by the member at the time of death. Upon the death of a job-connected disability retiree who retired prior to November 7, 1996 and could not elect an Option C benefit, a surviving spouse will receive an allowance of \$9,000 per year if the member dies for a reason unrelated to cause of disability.

Contributions

Active members of the Middlesex County Retirement System contribute either 5%, 7%, 8% or 9% of their gross regular compensation depending on the date upon which their membership began. An additional 2% is required from employees for earnings in excess of \$30,000. The Department is required to pay an actuarially determined rate. The contribution requirement of plan members is determined by M.G.L. Chapter 32. The contribution requirements are established by and may be amended by the Middlesex County Retirement System with the approval of the Public Employee Retirement Administration Commission.

The Department's contractually required contribution rate for the year ended December 31, 2015 was 16.99% of covered payroll, actuarially determined as an amount that, when combined with employee contributions, is expected to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability. Contributions to the pension plan from the Department were \$541,928 for the year ending December 31, 2015.

b. Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

At December 31, 2015, the Department reported a liability of \$5,851,043 for its proportionate share of the net pension liability. The net pension liability was measured as of December 31, 2015, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. Accordingly, update procedures were utilized to roll forward the liability to the measurement date. The Department's proportion of the net pension liability was based on a projection of the Department's long-term share of contributions to the pension plan relative to the projected contributions of all participating members, actuarially determined. At December 31, 2015, the Department's proportion was 0.487053%. Since this is the implementation year of GASB 68 the increase/decrease of its proportion measured as of December 31, 2014 was not calculated.

Chapter 176 of the Acts of 2011 was incorporated in this valuation, which changes many of the benefit features for members hired on or after April 2, 2012. In addition, the COLA base was increased to \$15,000 effective July 1, 2014.

For the year ended December 31, 2015, the Department recognized pension expense of \$529,099. Since the system performs an actuarial valuation bi-annually, there are not reported differences between expected and actual experience or a change of assumptions as of December 31, 2015. Additionally, the changes in proportion and differences between employer contributions and proportionate share of contributions are not presented in the initial year of reporting in accordance with GASB Statements 67, 68 and 71. At December 31, 2015, the Department reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	<u>Deferred Outflows of Resources</u>	<u>Deferred Inflows of Resources</u>
Differences between expected and actual experience	\$ -	\$ -
Change in assumptions	- -	- -
Net differences between projected and actual earnings on pension plan investments	19,759	- -
Changes in proportion and differences between contributions and proportionate share of contributions	- -	- -
Contributions subsequent to the measurement date	- -	- -
	<u>\$ 19,759</u>	<u>\$ -</u>

Contributions made subsequent to the measurement date (deferred outflows of resources) are recognized as a reduction of the net pension liability in the next fiscal year. The Department did not have any deferred outflows of resources for contributions made subsequent to the measurement date. Other amounts reported as deferred outflows and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year ended June 30:	Amount
2016	\$ 4,940
2017	4,940
2018	4,940
2019	4,939

Actuarial Assumptions

The total pension liability as of December 31, 2015 was determined by updating an actuarial valuation as of January 1, 2014, using the following actuarial assumptions, applied to all periods included in the measurement:

Valuation date	January 1, 2014																																												
Actuarial Cost Method	Entry age normal cost method																																												
Amortization Method	Prior year's total contribution increased by 6.5% for fiscal year 2016 through fiscal year 2020, and thereafter the remaining unfunded liability will be amortized on a 4.0% annual increasing basis; ERI Liability amortized in level payments.																																												
Remaining Amortization Period	As of July 1, 2014, 5 years remaining for the 2002 ERI liability; 6 years remaining for the 2003 ERI liability; 8 years remaining for the 2010 ERI liability and 21 years for the remaining unfunded liability.																																												
Asset Valuation Method	The difference between the expected return and the actual investment return on a market value basis is recognized over a five-year period as described by Revenue Procedure 2000-40. Asset value is adjusted to be within 20% of market value.																																												
Investment rate of return	7.875% (8% in previous valuation)																																												
Discount Rate	7.875% (previously 8.0%)																																												
Inflation	4.00%																																												
Projected Salary Increases	<table> <thead> <tr> <th>Years of Service</th> <th>Group 1</th> <th>Group 2</th> <th>Group 4</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>6.00%</td> <td>6.00%</td> <td>7.00%</td> </tr> <tr> <td>1</td> <td>5.50%</td> <td>5.50%</td> <td>6.50%</td> </tr> <tr> <td>2</td> <td>5.50%</td> <td>5.50%</td> <td>6.00%</td> </tr> <tr> <td>3</td> <td>5.25%</td> <td>5.25%</td> <td>5.75%</td> </tr> <tr> <td>4</td> <td>5.25%</td> <td>5.25%</td> <td>5.25%</td> </tr> <tr> <td>5</td> <td>4.75%</td> <td>4.75%</td> <td>5.25%</td> </tr> <tr> <td>6</td> <td>4.75%</td> <td>4.75%</td> <td>4.75%</td> </tr> <tr> <td>7</td> <td>4.50%</td> <td>4.50%</td> <td>4.75%</td> </tr> <tr> <td>8</td> <td>4.50%</td> <td>4.50%</td> <td>4.75%</td> </tr> <tr> <td>9+</td> <td>4.25%</td> <td>4.50%</td> <td>4.75%</td> </tr> </tbody> </table>	Years of Service	Group 1	Group 2	Group 4	0	6.00%	6.00%	7.00%	1	5.50%	5.50%	6.50%	2	5.50%	5.50%	6.00%	3	5.25%	5.25%	5.75%	4	5.25%	5.25%	5.25%	5	4.75%	4.75%	5.25%	6	4.75%	4.75%	4.75%	7	4.50%	4.50%	4.75%	8	4.50%	4.50%	4.75%	9+	4.25%	4.50%	4.75%
Years of Service	Group 1	Group 2	Group 4																																										
0	6.00%	6.00%	7.00%																																										
1	5.50%	5.50%	6.50%																																										
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6	4.75%	4.75%	4.75%																																										
7	4.50%	4.50%	4.75%																																										
8	4.50%	4.50%	4.75%																																										
9+	4.25%	4.50%	4.75%																																										
Cost of Living Adjustments	3.00% of first \$14,000																																												
Mortality Rates were based on the tables noted below:																																													
Healthy:																																													
Pre-Retirement	RP-2000 Employee Mortality Table projected 22 years with Scale AA (previously projected 12 years with Scale AA)																																												
Post-Retirement	RP-2000 Healthy Annuitant Mortality Table projected 17 years with Scale AA (previously, projected 12 years with Scale AA)																																												
Disabled	RP-2000 Healthy Annuitant Mortality Table set forward three years projected 17 years with Scale AA (previously, set forward 2 years and projected 0 years)																																												

In performing the actuarial valuation, various assumptions are made regarding mortality, retirement, disability and withdrawal rates as well as salary increases and investment returns. A comparison of the results of the current valuation and the prior valuation is made to determine how closely actual experience relates to expected. The RP-2000 Employee Mortality Table projected 22 years with Scale AA and the RP-2000 Healthy Annuitant Mortality Table projected 17 years with Scale AA were determined to contain provisions appropriate to reasonably reflect future mortality improvement, based on a review of the mortality experience of the plan.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are 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. The target allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

	<u>Target Allocation</u>	<u>Long Term Expected Rate of Return</u>
Domestic Equity	19.60%	6.60%
International developed markets equity	15.60%	7.10%
International emerging markets equity	6.50%	9.40%
Core fixed income	15.30%	2.20%
High yield fixed income	8.30%	4.70%
Real estate	9.90%	4.40%
Commodities	3.90%	4.40%
Short-term government money market	0.00%	1.80%
Hedge fund, GTAA. Risk parity	9.80%	3.90%
Private equity	11.10%	11.70%
	<hr/> <hr/> 100%	

Rate of Return

The annual money-weighted rate of return on pension plan investments for December 31, 2015 (net of investment expenses) was 7.54%. The money-weighted rate of return expresses investment performance, net of pension plan investment expense, is adjusted for the changing amounts actually invested, measured monthly.

Discount Rate

The discount rate used to measure the total pension liability was 7.875% (8.0% in the previous valuation). The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at the current contribution rate and that the Middlesex County Retirement System contributions will be made at rates equal to the actuarially determined contribution rates. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the Department's Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of the Middlesex County Retirement System, calculated using the discount rate of 7.875%, as well as what the Middlesex County Retirement System's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.875%) or 1-percentage-point higher (8.875%) than the current rate. **The actuarial report calculated the sensitivity analysis based on the net pension liability of the entire Town of Littleton. The following schedule displays the sensitivity schedule included in the actuarial report (Entire Town) and a calculation of the Department's share based on the percentage used to allocate the net pension liability to the Electric Light Department.**

	1% Decrease <u>(6.875%)</u>	Discount Rate <u>(7.875%)</u>	1% Increase <u>(8.875%)</u>
Entire Town of Littleton's proportionate share of the Net Pension Liability	<u>\$23,001,141</u>	<u>\$19,021,595</u>	<u>\$15,633,471</u>
Electric Light Department's share based on the Net Pension Liability allocation percentage	<u>\$7,075,151</u>	<u>\$5,851,043</u>	<u>\$4,808,856</u>

Pension Plan Fiduciary Net Position

Detailed information about the pension plan's fiduciary net position is available in the separately issued Middlesex County Retirement System financial report. The System issues a stand-alone financial report is available that can be obtained through the System's website at:

<http://www.middlesexretirement.org/MCRS%20Final%20Audit%20Report%2012-31-14%20Financial%20Statements%20and%20GASB%2068.pdf>.

IX. Other Post-Employment Benefits (OPEB) Disclosures

The Governmental Accounting Standards Board (GASB) issued Statement No. 45 (GASB 45), "Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions". This statement requires the Department to account for and report the value of its future OPEB obligations currently rather than on a pay as you go basis. Certain information that is required to be disclosed by GASB 45 is noted below. In addition, other Required Supplementary Information (RSI) is presented following the notes to the financial statements.

a. **Plan Description.** Employees are eligible for OPEB benefits upon meeting the following requirements:

- Group 1 employees hired before April 2, 2012: retire after attaining age 55 with 10 or more years of service or any age with 20 or more years of service;
- Group 1 employees hired after April 1, 2012: retire after attaining age 60 with 10 or more years of service;
- Group 4 employees hired before April 2, 2012: retire after attaining age 55 or any age with 20 or more years of service;

- Group 4 employees hired after April 1, 2012: retire after attaining age 55.
- b. **Funding Policy.** The Department pays 70% of the total premiums for health insurance and 70% of the premiums for a \$5,000 life insurance policy for employees hired prior to July 1, 2010 (50% for employees hired on or after July 1, 2010). The contribution requirements of plan members and the Department are established by contractual obligation and may be amended from time to time.
- c. **Annual OPEB Cost and OPEB Obligation.** The annual Other Postemployment Benefit (OPEB) cost is calculated based on the Annual Required Contribution (ARC) of the Department, an amount that has been actuarially determined in accordance with the parameters of GASB 45. The ARC represents a level of funding that, if paid on an ongoing basis, is projected to cover normal costs each year and to amortize any unfunded actuarial liabilities over a period not to exceed thirty years. The following table shows the components of the Department's annual OPEB cost for the fiscal year ended December 31, 2015, the amount actually contributed to the plan, and the Department's Net OPEB Obligation (NOO):

Annual Required Contribution (ARC)	\$315,611
Interest on Net OPEB Obligation	37,729
Adjustment to Annual Required Contribution	(43,479)
Annual OPEB Cost (Expense)	<u>309,861</u>
Contributions Made:	
Premiums Paid by Department (including implicit subsidy)	281,893
Contributions to OPEB Trust	<u>250,000</u>
Total Contributions	<u>531,893</u>
Increase (Decrease) in Net OPEB Obligation	(222,032)
Net OPEB Obligation (NOO) - Beginning of Year	<u>503,056</u>
Net OPEB Obligation (NOO) - End of Year	<u><u>\$281,024</u></u>

The Department's annual OPEB cost, the percentage of the annual OPEB cost contributed to the plan and the net OPEB obligation for the past three years are as follows:

Fiscal Year <u>Ended December 31</u>	Annual <u>OPEB Cost</u>	Percentage of <u>Annual OPEB Cost Contributed</u>	Net OPEB <u>Obligation</u>
2015	\$309,861	171.7%	\$281,024
2014	320,534	154.5%	503,056
2013	370,266	101.8%	677,755

- a. **Funded Status and Funding Progress.** As of January 1, 2014, the most recent actuarial valuation date the Actuarial Accrued Liability (AAL) for benefits was \$4,187,388 and the actuarial value of assets was \$886,735, resulting in an Unfunded Actuarial Accrued Liability (UAAL) of \$3,300,653. The actuarial value of the assets as a percentage of the Actuarial Accrued Liability (funded ratio) was 21.18%. The covered payroll as of the valuation date was \$2,729,436 and the UAAL as a percentage of covered payroll was 120.9%. **Subsequent to the most recent valuation, the Light Department made contributions to and had earnings in the OPEB trust. The balance in the OPEB trust as of December 31, 2015, was \$1,426,735. The plan assets are recorded and reported in the Department's fiduciary fund financial statements.**

Actuarial valuations of an ongoing plan involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and the healthcare cost trend. Amounts determined regarding the funded status of the plan and the annual required contributions of the employer are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The schedule of funding progress, presented as Required Supplementary Information (RSI) following the notes to the financial statements, presents multiyear trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liability for benefits.

b. **Actuarial Methods and Assumptions.** Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and the plan members). The projections consider the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculations.

In the January 1, 2014, actuarial valuation, the projected unit credit method was used. The actuarial assumptions included a 7.5 percent investment rate of return (the same as the previous valuation) and an annual healthcare cost trend rate of 7 percent initially, reduced by 1.0 percent decrements to an ultimate rate of 5 percent in year three (previously 9 percent reduced to 5 percent in year 5). The actuarial value of assets was determined using market value. The UAAL is being amortized over a thirty year closed amortization period.

X. Compensated Absences

Vacation Leave - All permanent full time employees are granted vacation leave based on years of employment. Vacation leave may only be carried forward to the subsequent fiscal year with the approval of the supervisor and if appropriate within the terms of the employee's contract. The accumulated vacation leave liability is reflected in the compensated absences liability in the accompanying financial statements.

Sick Leave - Employees of the Department are allowed 120 hours of sick leave per year. Sick leave may be accumulated and bought back upon retirement or after 20 years of service. The buyback is limited to 50% of up to 1,160 hours of accumulated sick leave at the employee's current rate of pay. The accumulated sick leave liability is reflected in the compensated absences liability in the accompanying financial statements.

XI. Risk Management

The government is exposed to various risks of loss related to torts; theft of, damage to and destruction of assets; errors and omissions; and natural disasters for which the government carries commercial insurance. There were no significant reductions in insurance coverage from the previous year.

XII. Prior Period Adjustments

Prior period adjustments were made as follows:

Reflect Net Pension Liability as of 1/1/15 per GASB Statement #68 (\$5,828,614)

Reflect Deferred Outflow of Resources related to a debt refunding

as of 1/1/15 per GASB Statement #65

Total Prior Period Adjustment

27,734

(\$5,800,880)

XIII. Litigation

No provision for loss on litigations and/or claims has been made. It is the opinion of management that the disposition of any claims against the Department will not materially affect the financial statements

XIV. Contingent Liabilities

The Town of Littleton, acting through its Light Department, is a Participant in certain Projects of the Massachusetts Municipal Wholesale Electric Company (MMWEC).

MMWEC is a public corporation and a political subdivision of the Commonwealth of Massachusetts, created as a means to develop a bulk power supply for its Members and other utilities. MMWEC is authorized to construct, own or purchase ownership interests in, and to issue revenue bonds to finance, electric facilities (Projects). MMWEC has acquired ownership interests in electric facilities operated by other entities and also owns and operates its own electric facilities. MMWEC sells all of the capability (Project Capability) of each of its Projects to its Members and other utilities (Project Participants) under Power Sales Agreements (PSAs). Among other things, the PSAs require each Project Participant to pay its *pro rata* share of MMWEC's costs related to the Project, which costs include debt service on the revenue bonds issued by MMWEC to finance the Project, plus 10% of MMWEC's debt service to be paid into a Reserve and Contingency Fund. In addition, should a Project Participant fail to make any payment when due, other Project Participants of that Project may be required to increase (step-up) their payments and correspondingly their Participant's share of that Project's Project Capability to an additional amount not to exceed 25% of their original Participant's share of that Project's Project Capability. Project Participants have covenanted to fix, revise and collect rates at least sufficient to meet their obligations under the PSAs.

MMWEC has issued separate issues of revenue bonds for each of its eight Projects, which are payable solely from, and secured solely by, the revenues derived from the Project to which the bonds relate, plus available funds pledged under MMWEC's Amended and Restated General Bond Resolution (GBR) with respect to the bonds of that Project. The MMWEC revenues derived from each Project are used solely to provide for the payment of the bonds of any bond issue relating to such Project and to pay MMWEC's cost of owning and operating such Project and are not used to provide for the payment of the bonds of any bond issue relating to any other Project.

MMWEC operates the Stony Brook Intermediate Project and the Stony Brook Peaking Project, both fossil-fueled power plants. MMWEC has a 3.7% interest in the W.F. Wyman Unit No. 4 plant, which is operated and owned by its majority owner, FPL Energy Wyman IV, LLC, a subsidiary of NextEra Energy Resources LLC, and a 4.8% ownership interest in the Millstone Unit 3 nuclear unit, operated by Dominion Nuclear Connecticut, Inc. (DNCI), the majority owner and an indirect subsidiary of Dominion Resources, Inc. DNCI also owns and operates the Millstone Unit 2 nuclear unit. The operating license for the Millstone Unit 3 nuclear unit extends to November 25, 2045.

A substantial portion of MMWEC's plant investment and financing program is an 11.6% ownership interest in the Seabrook Station nuclear generating unit operated by NextEra Energy Seabrook, LLC (NextEra Seabrook) the majority owner and an indirect subsidiary of NextEra Energy Resources LLC. The operating license for Seabrook Station extends to March 15, 2030. NextEra Seabrook has submitted an application to extend the Seabrook Station operating license for an additional 20 years.

Pursuant to the PSAs, the MMWEC Seabrook and Millstone Project Participants are liable for their proportionate share of the costs associated with decommissioning the plants, which costs are

being funded through monthly Project billings. Also, the Project Participants are liable for their proportionate share of the uninsured costs of a nuclear incident that might be imposed under the Price-Anderson Act (Act). Originally enacted in 1957, the Act has been renewed several times. In July 2005, as part of the Energy Policy Act of 2005, Congress extended the Act until the end of 2025.

Littleton Electric Light & Water has entered into PSAs and PPAs with MMWEC. Under both the PSAs and PPAs, the Department is required to make certain payments to MMWEC payable solely from Municipal Light Department revenues. Under the PSAs, each Participant is unconditionally obligated to make all payments due to MMWEC, whether or not the Project(s) is completed or operating, and notwithstanding the suspension or interruption of the output of the Project(s).

MMWEC is involved in various legal actions. In the opinion of management, the outcome of such litigation or claims will not have a material adverse effect on the financial position of the company.

As of December 31, 2015 total capital expenditures amounted to \$1,626,959,000, of which \$17,299,000 represents the amount associated with the Department's Project Capability. MMWEC's debt outstanding for the Projects from Power Supply System Revenue Bonds totals \$112,510,000, of which \$689,000 is associated with the Department's share of Project Capability. As of December 31, 2015, MMWEC's total future debt service requirement on outstanding bonds issued for the Projects is \$121,353,000, of which \$734,000 is anticipated to be billed to the Department in the future.

The aggregate amount of Littleton Electric Light & Water's required payments under the PSAs and PPAs, exclusive of the Reserve and Contingency Fund billings, to MMWEC at December 31, 2015 and estimated for future years is shown below.

<u>Annual Costs</u>	
For years ended December 31,	
2016	\$452,000
2017	252,000
2018	29,000
2019	-
TOTAL	<u>\$733,000</u>

In addition, under the PSAs, the Department is required to pay to MMWEC its share of the Operation and Maintenance (O&M) costs of the Projects in which it participates. The Department's total O&M costs including debt service under the PSAs were \$1,934,000 and \$1,957,000 for the years ended December 31, 2015 and 2014, respectively.

LITTLETON ELECTRIC LIGHT DEPARTMENT
AS OF DECEMBER 31, 2015
(\$000)

<u>PROJECTS</u>	<u>PERCENTAGE</u>	TOTAL PROJECT		DEBT ISSUED & OUTSTANDING			TOTAL DEBT SERVICE ON			<u>BONDS</u>	<u>OUTSTANDING</u>	<u>PARTICIPANT'S</u>
		<u>SHARE</u>	<u>EXPENDITURES</u> <u>TO DATE</u>	<u>PARTICIPANT'S</u> <u>SHARE</u>	<u>12/31/2015</u>	<u>PARTICIPANT'S</u> <u>SHARE</u>	<u>12/31/2015</u>	<u>PARTICIPANT'S</u> <u>SHARE</u>	<u>12/31/2015</u>			
Stony Brook Peaking Project	3.0607	\$ 59,332	\$ 1,816	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Stony Brook Intermediate Project	1.6654	174,118	2,900	-	-	-	-	-	-	-	-	-
Nuclear Mix No. 1 -SBK	1.7544	11,150	196	-	-	-	-	-	-	-	-	-
Nuclear Mix No. 1 -MLS	1.7544	123,182	2,161	-	-	-	-	-	-	-	-	-
Nuclear Project No.3 - MLS	0.7972	151,141	1,205	20,310	162	21,710	162	21,710	173	21,710	173	173
Nuclear Project No. 4-SBK	2.2220	348,576	7,745	20,950	466	22,257	466	22,257	495	22,257	495	495
Nuclear Project No. 5-SBK	0.9262	94,542	876	6,535	61	6,976	61	6,976	65	6,976	65	65
Wyman Project	4.5428	8,805	400	-	-	-	-	-	-	-	-	-
Project No. 6-SBK	-	656,113	-	64,715	-	70,410	-	70,410	1	70,410	1	1
TOTAL		\$ 1,626,959	\$ 17,299	\$ 112,510	\$ 689	\$ 121,353	\$ 734					
<u>PROJECTS</u>	<u>PERCENTAGE</u>	OPERATION & MAINTENANCE		OPERATION & MAINTENANCE			OPERATION & MAINTENANCE			<u>SHARE</u>	<u>SHARE</u>	<u>SHARE</u>
		<u>SHARE</u>	<u>12/31/2014</u>	<u>PARTICIPANT'S</u> <u>SHARE</u>	<u>12/31/2014</u>	<u>PARTICIPANT'S</u> <u>SHARE</u>	<u>12/31/2015</u>	<u>PARTICIPANT'S</u> <u>SHARE</u>	<u>12/31/2015</u>			
Stony Brook Peaking Project	3.0607	\$ 4,648	\$ 142	\$ 3,730	\$ 114	-	-	-	-	-	-	-
Stony Brook Intermediate Project	1.6654	32,241	537	40,083	668	-	-	-	-	-	-	-
Nuclear Mix No. 1 -SBK	1.7544	971	17	576	10	-	-	-	-	-	-	-
Nuclear Mix No. 1 -MLS	1.7544	8,743	153	6,369	112	-	-	-	-	-	-	-
Nuclear Project No.3 - MLS	0.7972	26,549	212	27,329	218	-	-	-	-	-	-	-
Nuclear Project No.4 - SBK	2.2220	30,617	680	28,086	624	-	-	-	-	-	-	-
Nuclear Project No.5 - SBK	0.9262	8,122	75	7,530	70	-	-	-	-	-	-	-
Wyman Project	4.5428	3,094	141	2,591	118	-	-	-	-	-	-	-
Project No. 6 - SBK	-	55,736	-	52,773	-	-	-	-	-	-	-	-
TOTAL		\$ 170,721	\$ 1,957	\$ 169,067	\$ 1,934							

LITTLETON ELECTRIC LIGHT DEPARTMENT

AS OF DECEMBER 31, 2015

(\$000)

<u>PROJECTS</u>	PERCENTAGE <u>SHARE</u>	2016		2017		2018	
		ANNUAL <u>COST</u>	PARTICIPANT'S <u>SHARE</u>	ANNUAL <u>COST</u>	PARTICIPANT'S <u>SHARE</u>	ANNUAL <u>COST</u>	PARTICIPANT'S <u>SHARE</u>
Stony Brook Peaking Project	3.0607	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Stony Brook Intermediate Project	1.6654	-	-	-	-	-	-
Nuclear Mix No. 1 -SBK	1.7544	-	-	-	-	-	-
Nuclear Mix No. 1 -MLS	1.7544	-	-	-	-	-	-
Nuclear Project No.3 - MLS	0.7972	14,725	117	3,639	29	3,346	27
Nuclear Project No. 4-SBK	2.2220	13,455	299	8,802	196	-	-
Nuclear Project No. 5-SBK	0.9262	3,857	36	2,884	27	235	2
Wyman Project	4.5428	-	-	-	-	-	-
Project No. 6-SBK	-	30,034	-	32,417	-	503	-
 TOTAL		 <u>\$ 62,071</u>	 <u>\$ 452</u>	 <u>\$ 47,742</u>	 <u>\$ 252</u>	 <u>\$ 4,084</u>	 <u>\$ 29</u>

<u>PROJECTS</u>	PERCENTAGE <u>SHARE</u>	2019	
		ANNUAL <u>COST</u>	PARTICIPANT'S <u>SHARE</u>
Stony Brook Peaking Project	3.0607	\$ -	\$ -
Stony Brook Intermediate Project	1.6654	-	-
Nuclear Mix No. 1 -SBK	1.7544	-	-
Nuclear Mix No. 1 -MLS	1.7544	-	-
Nuclear Project No.3 - MLS	0.7972	-	-
Nuclear Project No.4 - SBK	2.2220	-	-
Nuclear Project No.5 - SBK	0.9262	-	-
Wyman Project	4.5428	-	-
Project No. 6 - SBK	-	<u>7,456</u>	-
 TOTAL		 <u>\$ 7,456</u>	 <u>\$ -</u>

REQUIRED SUPPLEMENTARY INFORMATION

Required Supplementary Information
 Schedule of the Littleton Electric Light Departments' Proportionate Share of the Net Pension Liability
 Middlesex County Retirement System
 Last Ten Fiscal Years**

<u>Electric Light Department</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>
Department's proportionate share of net pension liability (asset) (%)										0.487053% <i>(Historical information prior to implementation of GASB 67/68 is not required)</i>
Department's proportionate share of net pension liability (asset) (\$)										5,851,043
Department's covered-employee payroll										3,189,161
Department's proportionate share of net pension liability (asset) as a percentage of its covered-employee payroll										183.47%
Plan fiduciary net position as a percentage of the pension liability										47.65%

The amounts reported above were based on an allocation of the Middlesex County Retirement System's actuarial report (Town total) to the Town's enterprise funds

** The amounts presented for each fiscal year were determined as of December 31.

See Notes to the Required Supplementary Information

Required Supplementary Information
 Schedule of the Littleton Electric Light Departments' Contributions
 Middlesex County Retirement System
 Last Ten Fiscal Years

	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>
Contractually required contribution	\$ 541,928	\$ 363,127	\$ 362,898	\$ 334,928	\$ 317,928	\$ 464,126	\$ 364,032	\$ 315,370	\$ 311,670	\$ 239,120
Contributions in relation to the contractually required contribution	<u>(541,928)</u>	<u>(363,127)</u>	<u>(362,898)</u>	<u>(334,928)</u>	<u>(317,928)</u>	<u>(464,126)</u>	<u>(364,032)</u>	<u>(315,370)</u>	<u>(311,670)</u>	<u>(239,120)</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Department's covered-employee payroll	\$ 3,189,161	<i>(Historical information prior to implementation of GASB 67/68 is not required)</i>								
Contributions as a percentage of covered-employee payroll	16.99%									

See Notes to the Required Supplementary Information

Littleton Electric Light Department
 Required Supplementary Information
 Schedules of Funding Progress and Employer's Contributions - Other Post Employment Benefits
 Fiscal Year Ended December 31, 2015

Schedule of Funding Progress

Actuarial Valuation Date	Actuarial Value of Assets <u>(a)</u>	Actuarial Accrued Liability (AAL) <u>(b)</u>	Unfunded AAL (UAAL) <u>(b) - (a)</u>	Funded Ratio <u>(a) / (b)</u>	Covered Payroll <u>(c)</u>	UAAL as a Percentage of Covered Payroll <u>[(b) - (a) / (c)]</u>
01/01/2010	\$127,268	\$5,181,596	\$5,054,328	2.46%	Not Available	Not Available
01/01/2012	\$370,151	\$4,287,032	\$3,916,881	8.63%	\$2,428,997	161.3%
01/01/2014	\$886,735	\$4,187,388	\$3,300,653	21.18%	\$2,729,436	120.9%

This schedule of funding progress presents multi-year trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liability for benefits.

Since the valuation date, the Light Department made contributions to the Other Post Employment Benefits Trust Funds. The balance in the fund as of December 31, 2015 is \$1,426,735.

Schedule of Employer's Contributions

Fiscal Year Ended June 30	Annual Required Contributions (ARC)	Percentage Contributed	Net OPEB Obligation
2013	\$370,266	101.8%	\$677,755
2014	\$320,534	154.5%	\$503,056
2015	\$315,611	171.7%	\$281,024

See Notes to the Required Supplementary Information

Littleton Electric Light Department
Required Supplementary Information - Other Post Employments Benefits
Valuation Details
December 31, 2015

Valuation Date	January 1, 2014
Actuarial Cost Method	Projected Unit Credit
Amortization Method	Level Dollar
Remaining Amortization Period	30 year closed amortization period (28 remaining)
Asset Valuation Method	Market Value

Actuarial Assumptions:

Investment Rate of Return	7.5%, pre-funding; (the same as in the previous report).
Medical/Drug Cost Trend Rate	7.0% graded to 5.0% in year 3; previous report utilized 9.0% graded to 5.0% in year 5.

Plan Membership:

Current retirees, beneficiaries, and dependents	38
Current active members	<u>27</u>
Total	65

Littleton Municipal Electric Light Department
Notes to the Required Supplementary Information
December 31, 2015

I Pension Plans

(A) Pension Plans

a. Plan Description

The Department provides pension benefits to eligible employees by contributing to the Middlesex County Retirement System, a cost sharing multiple-employer defined benefit pension plan administered by the Middlesex County Retirement System. The System is administered by a five member board on behalf of all eligible current employees and retirees. The system provides retirement benefits, cost of living adjustments, disability benefits and death benefits.

The Department is a member of the Massachusetts Contributory Retirement System and is governed by Chapter 32 of the Massachusetts General Laws (MGL). The authority to establish and amend benefit provisions requires a statutory change to Chapter 32. The Middlesex County Retirement System issues a stand-alone financial report that is available to the public at:

<http://www.middlesexretirement.org/MCRS%20Final%20Audit%20Report%2012-31-14%20Financial%20Statements%20and%20GASB%2068.pdf> or by writing to the Middlesex County Retirement System, 25 Linnell Circle, P.O. Box 160, Billerica, Massachusetts 01865.

b. Funding Plan

Active members of the Middlesex County Retirement System contribute either 5%, 7%, 8% or 9% of their gross regular compensation depending on the date upon which their membership began. An additional 2% is required from employees for earnings in excess of \$30,000. The Department is required to pay an actuarially determined rate. The contribution requirements of plan members are determined by M.G.L. Chapter 32. The Department's contribution requirement is established and may be amended by the Middlesex County Retirement System with the approval of the Public Employee Retirement Administration Commission.

c. Changes in Benefit Terms

Chapter 176 of the Acts of 2011 was incorporated in this valuation, which changes many of the benefit features for members hired on or after April 2, 2012. In addition, the COLA base was increased to \$14,000 effective July 1, 2014.

d. Change in Assumptions

The following changes were effective January 1, 2014:

- The actuarial cost method was changed to better reflect the impact of the plan changes effective for employees hired on or after April 2, 2012.
- The pre-retirement mortality assumption was changed from the RP-2000 Employee Mortality Table projected 12 years with Scale AA to the RP-2000 Employee Mortality Table projected 22 years with Scale AA.
- The mortality assumption for non-disabled retirees was changed from the RP-2000 Healthy Annuitant Mortality Table projected 12 years with Scale AA to the RP-2000 Healthy Annuitant Mortality Table projected 17 years with Scale AA.

- The mortality assumption for disabled participants was changed from the RP-2000 Healthy Annuitant Mortality Table set forward two years to the RP-2000 Healthy Annuitant Mortality Table set forward three years projected 17 years with Scale AA.
- The investment return assumption was lowered from 8.00% to 7.875%.
- The salary increase assumption was changed from level rates of 4.75% per year for Group 1 and Group 2 members and 5.25% per year for Group 4 members, including an allowance for inflation of 4.5% per year, to rates based on years of service with ultimate rates of 4.25% per year for Group 1 members, 4.5% per year for Group 2 members and 4.75% per year for Group 4 members, including an allowance for inflation of 4.0% per year.
- The assumed retirement age for inactive vested participants was changed from age 65 to age 60 for Group 1 and 2 members and remained the same at age 55 for Group 4 members hired prior to April 2, 2012. For participants hired April 2, 2012 or later, the assumption is 60 for Group 1 members, 55 for Group 2 members and 55 for Group 4 members.
- The administrative expense assumption was increased from \$3,100,000 for calendar 2012 to \$3,400,000 for calendar 2014.

e. Schedule of Department's Proportionate Share of the Net Pension Liability - Middlesex County Retirement System

The schedule details the Department's percentage of the collective net pension liability, the proportionate amount of the collective net pension liability, the Department's covered-employee payroll, the Department's proportionate share of the collective net pension liability as a percentage of the Department's covered-employee payroll and the plans fiduciary net position as a percentage of the total pension liability. As more information becomes available, this will be a ten year schedule.

f. Schedule of the Department's Contributions

The schedule details the Department's contractually required contributions, the contributions made by the Department, the deficiency/(excess) of contributions made by the Department, the Department's covered-employee payroll and the Department's contributions as a percentage of covered-employee payroll. As more information becomes available, this will be a ten year schedule.

II Other Postemployment Benefits (OPEB) Disclosures – GASB 43 and 45

The Governmental Accounting Standards Board (GASB) issued Statement No. 43 (GASB 43) – “Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans” and Statement No. 45 (GASB 45), “Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions”. These statements require the Department to account for and report the value of its future OPEB obligations currently rather than on a pay as you go basis.

- a. **Plan Description.** In addition to providing pension benefits described above, the Department provides the majority of retired employees with payments for a portion of their health care and life insurance benefits. Currently there are 27 active employees and 38 retired employees (including beneficiaries and dependents) who are eligible to participate in the plan.

- b. **Funding Policy.** For employees hired prior to July 1, 2010, the Department will contribute 70% of the premium. The retiree or surviving spouse will be responsible for the remaining 30%. For employees hired after July 1, 2010, the Department will contribute 50% of the premium. The retiree or surviving spouse will be responsible for the remaining 50%. Benefits paid by the Department are on a pay-as-you-go basis. However, contributions are made to an OPEB Trust. The contribution requirements of plan members and the Department are established by contractual negotiations and may be amended from time to time.