



The Commonwealth of Massachusetts

RETURN

OF THE

TOWN OF LITTLETON

TO THE

**DEPARTMENT OF
PUBLIC UTILITIES**

OF MASSACHUSETTS

For the Year Ended December 31,

2016

Name of Officer to whom correspondence should
be addressed regarding this report :

Erica Rooks

Official Title: **Business Manager**

Office Address: **39 Ayer Road
Littleton, MA 01460**

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FOR GAS PLANTS ONLY:

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GENERAL INFORMATION

3

- | | |
|--|--|
| 1. Name of town (or city) making this report. | TOWN OF LITTLETON |
| 2. If the town (or city) has acquired a plant,
Kind of plant, whether gas or electric. | Electric Distribution |
| Owner from whom purchased, if so acquired. | |
| Date of votes to acquire a plant in accordance with the provisions of chapter 164 of the General Laws. | |
| Record of votes: First vote Yes, Second vote: Yes, | |
| Date when town (or city) began to sell electricity, | September 1,1912 |
| 3. Name and address of manager of municipal lighting: | Scott Edwards
Georgetown, MA |
| 4. Name and address of mayor or selectmen | Melissa Hebert, Littleton, MA
James Karr, Littleton, MA
Joseph Knox, Littleton, MA
Charles DeCoste, Littleton, MA
Paul Glavey, Littleton, MA |
| 5. Name and address of town (or city) treasurer: | Steve Venuti
Littleton, MA |
| 6. Name and address of town (or city) clerk: | Diane Crory
Littleton, MA |
| 7. Names and addresses of members of municipal light board: | Dick Taylor, Littleton, MA
James Karr, Littleton, MA
Ivan Pagacik, Littleton, MA
Thomas Rauker, Littleton, MA
Bruce Trumbull, Littleton, MA |
| 8. Total valuation of estates in town (or city) according to last state valuation | \$1,625,366,807 |
| 9. Tax rate for all purposes during the year: | |
| Residential | \$18.15 |
| Commercial | \$28.37 |
| 10. Amount of manager's salary: | \$184,819 |
| 11. Amount of manager's bond: | |
| 12. Amount of salary paid to members of municipal light board (each) | \$1,950 |

FURNISH SCHEDULE OF ESTIMATES REQUIRED BY GENERAL LAWS, CHAPTER 164, SECTION 57 FOR GAS AND ELECTRIC LIGHT PLANTS FOR THE FISCAL YEAR ENDING DECEMBER 31, NEXT

INCOME FROM PRIVATE CONSUMERS:		
1	FROM SALES OF GAS.....	
2	FROM SALE OF ELECTRICITY	\$31,967,081.00
3	FROM RATE STABILIZATION FUND.....	
4	TOTAL	\$31,967,081.00
5	Expenses:	
6	For operation, maintenance and repairs.....	\$31,240,187.67
7	For interest on bonds, notes or scrip.....	\$11,115.00
8	For depreciation fund (3% on \$ 33,574,780 as per page 8B).....	\$1,007,243.40
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	\$131,733.33
12	For loss in preceding year.....	
13	TOTAL	\$32,390,279.40
14		
15	Cost:	
16	Of gas to be used for municipal buildings.....	
17	Of gas to be used for street lights.....	
18	Of electricity to be used for municipal buildings.....	597,433.00
19	Of electricity to be used for street lights.....	27,000.00
20	Total of the above items to be included in the tax levy.....	\$624,433.00
21		
22	New construction to be included in the tax levy.....	
23	Total amounts to be included in the tax levy.....	\$624,433.00

CUSTOMERS

Names of cities of towns in which the plant supplies GAS, with the number of customers' meters in each		Names of cities of towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each	
City or Town	Number of Customers' Meters, December 31.	City or Town	Number of Customers' Meters, December 31.
		LITTLETON	4,563
		BOXBOROUGH	2,408
		TOTAL	6,971

Annual Report of The Town of Littleton Electric Light Department Year ended December 31, 2016

APPROPRIATIONS SINCE BEGINNING OF YEAR

(Include also all items charged direct to tax levy, even where no appropriation is made or required.)

FOR CONSTRUCTION OR PURCHASE OF PLANT:

* At	meeting	19	, to be paid from {	\$	_____
* At	meeting	19	, to be paid from {	\$	_____

FOR THE ESTIMATED COST OF THE GAS OR ELECTRICITY TO BE USED BY THE CITY OR TOWN FOR:

1. Street Lights.....	\$	27,000.00
2. Municipal Buildings.....		597,433.00
	\$	<u>624,433.00</u>

*Date of meeting and whether regular or special { Here insert bonds, notes or tax levy

CHANGES IN THE PROPERTY

1. Describe briefly all the important physical changes in the property during the last fiscal period including additions, alterations or improvements to the works or physical property retired.

In electric property:

Continued upgrade of entire system

In gas property:

Annual Report of The Town of Littleton Electric Light Department

Year ended December 31, 2016

BONDS
(Issued on Account of Gas or Electric Lighting)

When Authorized*	Date of issue	Amount of Original Issue	Period of Payments		Interest		Amount Outstanding
			Amounts	When Payable	Rate	When Payable	
Apr-1999	Ded-1999	\$2,500,000.00 \$78,000.00	\$135,000.00	2000 thru 2006	5.43 Variable	semi annually	261,733.33
			\$138,666.67	2008 thru 2009			
			\$142,133.33	2010 thru 2011			
			\$140,400.00	2012			
			\$138,666.67	2013			
			\$136,933.33	2014			
			\$135,200.00	2015			
			\$133,466.67	2016			
			\$131,733.33	2017			
			\$130,000.00	2018			
	Total	\$2,578,000.00				261,733.33	

The bonds and notes outstanding at the end of the year should agree with the balance sheet. When bond and notes are repaid, report the first three columns only.

*Date of meeting and whether regular or special

Annual Report of The Town of Littleton Electric Light Department							7 Year ended December 31, 2016	
TOWN NOTES (ISSUED ON ACCOUNT OF GAS OR ELECTRIC LIGHTING)								
When Authorized	Date of Issue	Amount of Original Issue	Period of Payments		Interest		Amount of Outstanding at End of Year	
			Amounts	When Payable	Rate	When Payable		
			NONE					
	TOTAL	\$0.00					\$0.00	
The bonds and notes outstanding at the end of the year should agree with the balance sheet. When bonds and notes are repaid, report the first three columns only.								

Annual Report of The Town of Littleton Electric Light Department							8B
							Year ended December 31, 2016
TOTAL COST OF PLANT - ELECTRIC (Continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights	1,312,675					1,312,675
3	361 Structures and Improvements	411,839					411,839
4	362 Station Equipment	4,757,994	52,332	(19,134)			4,791,192
5	363 Storage Battery Equipment	12,026					12,026
6	364 Poles, Towers and Fixtures	1,747,634	272,886	(29,307)			1,991,213
7	365 Overhead Conductors and Devices	3,353,309	22,195	(35,700)			3,339,804
8	366 Underground Conduits	1,146,305	122,187	(10,906)			1,257,586
9	367 Underground Conductors & Devices	2,520,863	13,917	(29,805)			2,504,975
10	368 Line Transformers	3,703,173	172,732	(32,139)			3,843,766
11	369 Services	888,846	42,212	(28,760)			902,298
12	370 Meters	649,375	53,258	(15,161)			687,472
13	371 Installation on Cust's Premises	212,897	3,088	(2,656)			213,329
14	372 Leased Prop. on Cust's Premises						
15	373 Street Light and Signal Systems	262,595	103,082	(3,644)			362,033
16	Total Distribution Plant	20,979,532	857,889	(207,212)	0	0	21,630,209
17	5. GENERAL PLANT						
18	389 Land and Land rights						
19	390 Structures and Improvements	8,516,317					8,516,317
20	391 Office Furniture and Equipment	1,262,781	151,037	(130,063)			1,283,755
21	392 Transportation Equipment	2,563,111	199,223	(166,404)	57,646		2,653,576
22	393 Stores Equipment	22,915		(80)			22,835
23	394 Tools, Shop and Garage Equipment	474,893	26,286	(10,347)			490,832
24	395 Laboratory Equipment	340,968		(20,711)			320,257
25	396 Power Operated Equipment	211,817		(6,165)			205,652
26	397 Communication Equipment	414,883		(13,282)			401,601
27	398 Miscellaneous Equipment	100,237		(226)			100,011
28	399 Other Tangible Property						
29	Total General Plant	13,907,924	376,546	(347,278)	57,646	0	13,994,838
30	Total Electric Plant in Service	34,887,455	1,234,435	(554,490)	57,646	0	35,625,046
31	TOTAL COST OF PLANT.....						
32							
33	Less Cost of Land, Land Rights, and Rights of Way						
34	Total Cost upon which depreciation is based						
							1,312,675
							34,312,371

The above figures should show the original cost of existing property. In case any part of the property is sold or retired, the cost of such property should be deducted from the cost of the plant. The net cost of the property, less the land values, should be taken as a basis for figuring depreciation.

Annual Report of The Town of Littleton Electric Light Department

Year ended December 31, 2016

COMPARATIVE BALANCE SHEET Assets and Other Debits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End Year	Increase or (Decrease)
1	UTILITY PLANT			
2	101 Utility Plant -Electric.....	19,780,193	20,095,439	315,246
3	101 Utility Plant- Gas			
4	107 Construction in Process		2,020,952	2,020,952
5	Total Utility Plant.....	19,780,193	22,116,391	2,336,198
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds.....			
13	126 Depreciation Fund (P. 14).....	3,529,898	2,460,208	(1,069,690)
14	128 Other Special Funds.....	12,473,739	12,093,371	(380,368)
15	Total Funds.....	16,003,638	14,553,579	(1,450,059)
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P. 14).....	2,869,097	4,864,722	1,995,625
18	132 Special Deposits.....			
19	132 Working Funds.....	1,000	1,000	0
20	141 Notes and Receivables.....			
21	142 Customer Accounts Receivable.....	2,215,150	2,313,668	98,518
22	143 Other Accounts Receivable.....	(195)	(25,731)	(25,536)
23	146 Receivables from Municipality.....			
24	151 Materials and Supplies (P. 14).....	860,861	806,243	(54,618)
25				
26	165 Prepayments.....	601,167	479,601	(121,566)
27	174 Miscellaneous Current Assets			
28	Total Current and Accrued Assets...	6,547,080	8,439,504	1,892,424
29	DEFERRED DEBITS			
30	181 Unamortized Debt Discount.....			
31	182 Extraordinary Property Debits.....			
32	185 Other Deferred Debits.....			
33	Total Deferred Debits.....	0	0	0
34				
35	Total Assets and Other Debits.....	42,330,911	45,109,473	2,778,563

Annual Report of The Town of Littleton Electric Light Department

Year ended December 31, 2016

COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End Year	Increase or (Decrease)
1	APPROPRIATIONS			
2	201 Appropriations for Construction.....			
3	SURPLUS			
4	205 Sinking Fund Reserves.....			
5	206 Loans Repayment.....			
6	207 Appropriations for Construction Repayment..			
7	208 Unappropriated Earned Surplus (P. 12).....	38,890,428	41,741,424	2,850,996
8	Total Surplus.....	38,890,428	41,741,424	2,850,996
9	LONG TERM DEBT			
10	221 Bonds (P. 6).....	395,200	261,733	(133,467)
11	224 Other notes payable (P. 7)			
12	Total Bonds and Notes.....	395,200	261,733	(133,467)
13	CURRENT AND ACCRUED LIABILITIES			
14	232 Accounts Payable.....	83,593	185,476	101,883
15	234 Payables to Municipality.....			
16	235 Customer Deposits.....	54,074	101,000	46,926
17	236 Taxes Accrued.....			
18	237 Interest Accrued.....			
19	242 Miscellaneous Current and Accrued Liabilities	2,374,351	2,535,309	160,958
20	Total Current and Accrued Liabilities...	2,512,018	2,821,785	309,767
21	DEFERRED CREDITS			
22	251 Unamortized Premium on Debt.....			
23	252 Customer Advance for Construction.....			
24	253 Other Deferred Credits.....			
25	Total Deferred Credits	0	0	0
26	RESERVES			
27	260 Reserves for Uncollectable Accounts.....	30,209	3,507	(26,702)
28	261 Property Insurance Reserve.....			
29	262 Injuries and Damages Reserves.....			
30	263 Pensions and Benefits.....	503,056	281,024	(222,032)
31	265 Miscellaneous Operating Reserves.....			
32	Total Reserves.....	533,265	284,531	(248,734)
33	CONTRIBUTIONS IN AID OF CONSTRUCTION			
34	271 Contributions in Aid of Construction.....			
35	Total Liabilities and Other Credits	42,330,911	45,109,473	2,778,562

State below if any earnings of the Municipal Lighting Plant have been used for any purpose other than discharging indebtedness of the plant, the purpose for which used and the amount thereof.

Annual Report of The Town of Littleton Electric Light Department		Year ended December 31, 2016	
STATEMENT OF INCOME FOR THE YEAR			
Line No.	Account (a)	Current Year	Increase or (Decrease) from Preceding Year
1	OPERATING INCOME		
2	400 Operating Revenue (P. 37 and P. 43)	31,418,845	203,459
3	Operating Expenses:		
4	401 Operation Expense (P.42).....	26,799,016	(823,106)
5	402 Maintenance Expense (P. 42).....	853,406	35,387
6	403 Depreciation Expense	1,006,003	33,145
7	407 Amortization of Property Losses.....		
8			
9	408 Taxes (P. 48).....		
10	Total Operating Expenses.....	28,658,424	(754,574)
11	Operating Income.....	2,760,421	958,033
12	414 Other Utility Operating Income (P.50).....		
13			
14	Total Operating Income.....	2,760,421	958,033
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	377,731	(284,817)
17	419 Interest Income.....	421,375	158,861
18	421 Miscellaneous Income.....	3,000	(1,003)
19	Total Other Income.....	802,107	(126,959)
20	Total Income.....	3,562,528	831,074
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Amortization.....		
23	426 Other Income Deductions.....		
24	Total Income Deductions.....		
25	Income before Interest Charges.....	3,562,528	831,074
26	INTEREST CHARGES		
27	427 Interest on Operations Bond	16,120	(6,422)
28	428 Amortization of Debt Discount and Expense.....		
29	429 Amortization of Premium on Debt.....		
30	431 Other Interest Expense.....	53	52
31	432 Interest Charged to Construction-Credit.....		
32	Total Interest Charges	16,173	(6,370)
33	Net Income.....	3,546,355	837,444
EARNED SURPLUS			
Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of Period).....		38,890,428
35	Direct Charge to Surplus	482,552	
36	Earnings and Contributions to Restricted Equity for OPEB		591,032
37			
38	433 Balance transferred from Income.....		3,546,355
39	434 Miscellaneous Credits to Surplus.....		62,657
40	435 Miscellaneous Debits to Surplus.....	866,495	
41	436 Appropriations of Surplus (P.21).....		
42	437 Surplus Applied to Depreciation.....		
43	208 Unappropriated Earned Surplus (at end of period).....	41,741,424	
44	TOTALS	43,090,472	43,090,472

Annual Report of The Town of Littleton Electric Light Department		14 Year ended December 31, 2016	
CASH BALANCES AT END OF YEAR			
Line No.	Items (a)	Amount (b)	
1	Construction Fund.....	2,989,687	
2	Rate Stabilization Fund.....	6,324,315	
3	Pension Fund.....	1,011,603	
4	Post Employment Benefits.....	1,767,767	
5	Operating Cash	4,864,722	
6	Working Funds	1,000	
7			
8			
9			
10			
11			
12	TOTAL	16,959,094	
MATERIALS AND SUPPLIES (Account 151-159, 163) Summary per Balance Sheet			
Line No.	Account (a)	Amount End of Year	
		Electric (b)	Gas (c)
13	Fuel (Account 151) (See Schedule, Page 25).....		
14	Fuel Stock Expenses (Account 152).....		
15	Residuals (Account 153).....		
16	Plant Materials and Operating Supplies (Account 154).....	806,243	
17	Merchandise (Account 155).....		
18	Other Materials and Supplies (Account 156).....		
19	Nuclear Fuel Assemblies and Components - In Reactor (Acct 157)		
20	Nuclear Fuel Assemblies and Components - Stock Acct (Acct 158)		
21	Nuclear Byproduct Materials (Account 159).....		
22	Stores Expense (Account 163).....		
23	Total per Balance Sheet	806,243	
Depreciation Fund Account (Account 126)			
Line No.	(a) DEBITS	Amount (b)	
24			
25	Balance of Account at Beginning of Year.....	3,529,898	
26	Income During Year from Balance on Deposit.....	140,350	
27	Amount Transferred from Income.....		
28	TOTAL	3,670,248	
29			
30	CREDITS		
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.)	1,210,040	
32	Amounts Expended for Renewals.....		
33	Adjustment losses from investments		
34			
35			
36			
37			
38			
39	Balance on Hand at End of Year.....	2,460,208	
40	TOTAL	3,670,248	

UTILITY PLANT - ELECTRIC (continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	c. Hydraulic Production Plant						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators.....						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads and Bridges.....						
9	Total Hydraulic Production Plant						
10	D. Other Production Plant						
11	340 Land and Land Rights.....						
12	341 Structures and Improvements.....						
13	342 Fuel Holders, Producers and Accessories.....						
14	343 Prime Movers.....						
15	344 Generators						
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	Total Other Production Plant						
19	Total Production Plant						
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....						
22	351 Clearing Land and Rights of Way..						
23	352 Structures and Improvements..						
24	353 Station Equipment.....						
25	354 Towers and Fixures						
26	355 Poles and Fixtures.....						
27	356 Overhead Conductors and Device..						
28	357 Underground Conduits.....						
29	358 Underground Conductors and Devices.....						
30	359 Roads and Trails.....						
31	Total Transmission Plant	0	-	-	-	0	0

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							Year ended December 31, 2016
UTILITY PLANT - ELECTRIC (continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights.....	1,312,675					1,312,675
3	361 Structures and Improvements.....	126,353		(10,452)		330	116,231
4	362 Station Equipment.....	2,497,653	52,332	(120,749)		3,502	2,432,738
5	363 Storage Battery Equipment.....	10,455		(305)		8	10,158
6	364 Poles and Fixtures.....	1,082,493	272,886	(44,352)		1,239	1,312,266
7	365 Overhead Conductors and Devices...	1,434,629	22,195	(85,101)		1,673	1,373,396
8	366 Underground Conduits.....	673,645	122,187	(29,091)		769	767,510
9	367 Underground Conductors and Devices	1,553,536	13,917	(63,975)		1,861	1,505,340
10	368 Line Transformers.....	2,224,545	172,732	(93,980)		2,595	2,305,892
11	369 Services.....	250,532	42,212	(22,557)		647	270,834
12	370 Meters.....	551,978	53,258	(16,480)		472	589,228
13	371 Installation on Cust's Premises....	71,553	3,088	(5,403)		157	69,395
14	372 Leased Prop. on Cust's Premises....						
15	373 Street Light and Signal Systems....	133,777	103,082	(6,664)		149	230,344
16	Total Distribution Plant	11,923,826	857,889	(499,109)	0	13,403	12,296,008
17	5. GENERAL PLANT						
18	389 Land and Land Rights.....						
19	390 Structures and Improvements.....	5,564,499	0	(216,129)		390	5,348,760
20	391 Office Furniture and Equipment.....	755,913	151,037	(126,278)		(32,248)	748,424
21	392 Transportation Equipment.....	723,452	199,223	(124,752)		104,987	902,910
22	393 Stores Equipment.....	15,152		(582)		18	14,588
23	394 Tools, Shop and Garage Equipment...	223,293	26,286	(12,052)		345	237,872
24	395 Laboratory Equipment.....	230,031		(8,653)		252	221,630
25	396 Power Operated Equipment.....	15,725		(5,376)		231	10,580
26	397 Communication Equipment.....	262,205		(10,529)		(623)	251,053
27	398 Miscellaneous Equipment.....	66,095	0	(2,544)		63	63,614
28	399 Other Tangible Property.....						
29	Total General Plant	7,856,364	376,546	(506,894)	0	73,415	7,799,431
30	Total Electric Plant in Service	19,780,190	1,234,435	(1,006,003)	0	86,818	20,095,439
31	104 Utility Plant leased to Others.....						
32	105 Property Held for Future Use.....						
33	107 Construction Work in Progress.....	0	2,020,952				2,020,952
34	108 Accumulated Depreciation						
	Total Utility Electric Plant	19,780,190	3,255,387	(1,006,003)	0	86,818	22,116,391

**PRODUCTION FUEL AND OIL STOCKS (Included in Account 151)
(Except Nuclear Materials)**

1. Report below the information called for concerning production fuel and oil stocks.
2. Show quantities in tons of 2,000 lbs., gal., or Mcf., whichever unit of quantity is applicable.
3. Each kind of coal or oil should be shown separately.
4. Show gas and electric fuels separately by specific use.

Line No.	Item (a)	Total Cost (b)	Kinds of Fuel and Oil			
			Quantity (c)	Cost (d)	Quantity (e)	Cost (f)
1	On Hand Beginning of year					
2	Received During Year					
3	TOTAL					
4	Used During Year (Note A)					
5						
6	NONE					
7						
8						
9						
10						
11	Sold or Transferred					
12	TOTAL DISPOSED OF					
13	BALANCE END OF YEAR					

Line No.	Item (g)	Kinds of Fuel and Oil -- Continued			
		Quantity (h)	Cost (i)	Quantity (j)	Cost (k)
14					
15					
16					
17					
18	NONE				
19					
20					
21					
22					
23					
24					
25					
26					

Annual Report of The Town of Littleton Electric Light Department		21
		Year ended December 31, 2016
MISCELLANEOUS NON-OPERATING INCOME (Account 421)		
Line No.	Item (a)	Amount (b)
1	GAIN ON SALE OF VEHICLES	\$3,000.00
2		
3		
4		
5		
6	TOTAL	\$3,000.00
OTHER INCOME DEDUCTIONS (Account 426)		
Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14	TOTAL	
MISCELLANEOUS CREDITS TO SURPLUS (Account 434)		
Line No.	Item (a)	Amount (b)
15		
16		
17		
18		
19		
20		
21		
22		
23	TOTAL	\$0.00
MISCELLANEOUS DEBITS TO SURPLUS (Account 435)		
Line No.	Item (a)	Amount (b)
24	PAYMENT IN LIEU OF TAXES	\$584,616.94
25	A & G EXPENSE FOR TOWN WATER DEPT	\$281,878.40
26		
27		
28		
29		
30		
31		
32	TOTAL	\$866,495.34
APPROPRIATIONS OF SURPLUS (Account 436)		
Line No.	Item (a)	Amount (b)
33		
34		
35		
36		
37		
38		
39		
40	TOTAL	

Annual Report of The Town of Littleton Electric Light Department

Year ended December 31, 2016

MUNICIPAL REVENUES (Accounts 482,444)
(K.W.H. Sold under the Provision of Chapter 269, Acts of 1927)

Line No.	Acct No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue per M.C.F. [\$0.0000] (d)
1					
2					
3	482	NONE			
4		TOTALS			

Line No.	Acct No.	Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue per K.W.H. [cents] [\$0.0000] (d)
5					
6	444	Municipal: (Other Than Street Lighting)	5,933,966	734,736.21	0.1238
7					
8		TOTALS			
9		Street Lighting	268,834	\$27,152.19	0.1010
10					
11		TOTALS			
12					
13					
14					
15		TOTALS	6,202,800	\$761,888.40	0.1228

PURCHASED POWER (Account 555)

Line No.	Names of Utilities from which Electric Energy is Purchased (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Cost per K.W.H. cents [0.0000] (e)
20	ISO New England	Beaver Brook	37,886,513	\$1,142,669.82	0.0302
21	Nextera	substation	22,464,000	\$646,454.43	0.0288
22	Power Authority of New York	Littleton, MA	6,714,480	\$33,035.19	0.0049
23	Wyman (MMWEC)	115 KV	143,139	\$1,253.18	0.0088
24	Intermediate (MMWEC)		1,609,825	\$82,661.37	0.0513
25	Peaking (MMWEC)		91,563	\$20,560.23	0.2245
27	Mix 1 (MMWEC)		2,871,871	\$19,170.19	0.0067
28	Mix 3 (MMWEC)		2,323,427	\$15,620.03	0.0067
29	Mix 4 (MMWEC)		10,359,984	\$65,649.24	0.0063
30	Mix 5 (MMWEC)		1,093,052	\$6,917.07	0.0063
31	Benton Falls Hydro		12,510,107	\$1,196,858.19	0.0957
32	A&D Hydro		3,619,038	\$340,415.16	0.0941
33	BP Energy		177,067,600	\$8,454,034.71	0.0477
34	Ashuelot River Hydro		2,832,960	\$198,048.85	0.0699
35	Saddleback Ridge		7,135,098	\$657,679.75	0.0922
36	Ice House Partners		681,244	\$47,687.06	0.0700
38	NextSun Energy		5,286,520	\$529,555.04	0.1002
39	Old Wardour Holdings		713,277	\$43,509.72	0.0610
41	Vuelta Solar		713,277	\$43,509.94	0.0610
42	Messalonskee Stream Hydro		2,834,789	\$152,823.48	0.0539
44	Misc Cash Adjustment / Refunds		(1,372,466)	(\$219,627.68)	0.1600
45					
47		TOTALS	297,579,298	\$13,478,484.97	0.0453

SALES FOR RESALE (Account 447)

Line No.	Names of Utilities to which Electric Energy is Sold (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (c)	Revenues per K.W.H. [cents] [0.0000] (e)
43					
		TOTALS		\$0.00	

ELECTRIC OPERATING REVENUES (Account 400)

1. Report below the amount of Operating Revenue for the year for each prescribed account and the amount of increase or decrease over the preceding year.
 2. If increases and decreases are not derived from previously reported figures explain any inconsistencies.
 3. Number of customers should be reported on the basis of number of meters, plus number of flat rate accounts, except that where separate meter readings are

added for billing purposes, one customer shall be counted for each group of meters so added. The average number of customers means the average of the 12 figures at the close of each month. If the customer count in the residential service classification includes customers counted more than once because of special services, such as water heating, etc., indicate in a footnote the number of such duplicate customers included in the classification.

4. Unmetered sales should be included below. The details of such sales should be given in a footnote.
 5. Classification of Commercial and Industrial Sales, Account 442, according to small (or Commercial) and Large (or Industrial) may be according to the basis of classification regularly used by the respondent if such basis of classification is not greater than 1000 Kw of demand. See Account 442 of the Uniform System of Accounts. Explain basis of classification.

Line No.	Account (a)	Operating Revenues		Kilowatt-hours Sold		Average Number of Customers per Month	
		Amount for Year (a)	Increase or (Decrease) from Preceding Year (c)	Amount for Year (d)	Increase or (Decrease) from Preceding Year (e)	Number for Year (f)	Increase or (Decrease) from Preceding Year (g)
1	SALES OF ELECTRICITY						
2	440 Residential Sales.....	\$6,797,631.96	(\$340,465.32)	62,261,761	(3,337,556)	6,197	175
3	442 Commercial and Industrial Sales:						
4	Small (or Commercial) see instr. 5.....	\$1,682,820.77	\$83,366.92	14,189,210	402,217	596	24
5	Large (or Industrial) see instr. 5.....	\$21,937,470.08	\$393,375.87	205,570,943	65,385	84	4
6	444 Municipal Sales (P.22)	\$761,888.40	\$45,838.75	6,202,800	77,782	68	1
7	445 Other Sales to Public Authorities.....						
8	446 Sales to Railroads and Railways.....						
9	448 Interdepartmental Sales.....						
10	449 Miscellaneous Electric Sales.....						
11	Total Sales to Ultimate Consumers.....	\$31,179,811.21	\$182,116.22	288,224,714	(2,792,172)	6,944	203
12	447 Sales for Resale.....						
13	Total Sales of Electricity*.....	\$31,179,811.21	\$182,116.22	288,224,714	(2,792,172)	6,944	203
14	OTHER OPERATING REVENUES						
15	450 Forfeited Discounts.....	\$34,517.26	\$2,409.99				
16	451 Miscellaneous Service Revenues.....	\$82,037.50	\$16,229.00				
17	453 Sales of Water and Water Power.....						
18	454 Rent from Electric Property.....	\$105,196.00	\$859.22				
19	455 Interdepartmental Rents.....						
20	456 Other Electric Revenues.....	\$13,086.32	(\$2,352.37)				
21	458 Federal/State Emergency Reimbursemenes	\$4,197.03	\$4,197.03				
22							
23	Miscellaneous Adjustments to Sales						
24							
25	Total Other Operating Revenues.....	\$239,034.11	\$21,342.87				
26	Total Electric Operating Revenues.	\$31,418,845.32	\$203,459.09				

SALES OF ELECTRICITY TO ULTIMATE CONSUMERS

Report by account number the K.W.H. sold, the amount derived and the number of customers under each filed schedule or contract. Municipal sales and unbilled sales may be reported separately in total.

Line No.	Account No.	Schedule (a)	K.W.H. (b)	Revenue (c)	Average Revenue per K.W.H. (cents) *(0.0000) (d)	Number of Customers (per Bills Rendered)	
						July 31 (e)	December 31 (f)
1	440	Residential	62,261,761	6,797,631.96	0.1092	6,174	6,219
2	442-2	Commercial / Industrial SM	14,189,210	1,682,820.77	0.1186	593	598
3	442-3	Commercial / Industrial Power	15,346,281	1,909,302.55	0.1244	54	54
4	442-4	Commercial / Industrial Large	190,224,662	20,028,167.53	0.1053	29	31
5	445	Municipal	6,202,800	761,888.40	0.1228	67	69
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42							
43							
44							
45							
46							
47							
48	TOTAL SALES TO ULTIMATE CONSUMERS						
49	(Page 37 Line 11)		288,224,714	31,179,811	0.1082	6,917	6,971

ELECTRIC OPERATION AND MAINTENANCE EXPENSES

1. Enter in the space provided the operation and maintenance expenses for the year.
2. If the increases and decreases are not divided from previously reported figures explain in footnote.

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	POWER PRODUCTION EXPENSE		
2	STEAM POWER GENERATION		
3	Operation:		
4	500 Operation supervision and engineering.....		
5	501 Fuel.....		
6	502 Steam expense.....		
7	503 Steam from other sources.....		
8	504 Steam transferred -- Cr.....		
9	505 Electric expenses.....		
10	506 Miscellaneous steam power expenses.....		
11	507 Rents.....		
12	Total Operation		
13	Maintenance:		
14	510 Maintenance supervision and engineering.....		
15	511 Maintenance of structures.....		
16	512 Maintenance of boiler plant.....		
17	513 Maintenance of electric plant.....		
18	514 Maintenance of miscellaneous steam plant.....		
19	Total Maintenance		
20	Total power production expenses -- steam power		
21	NUCLEAR POWER GENERATION		
22	Operation:		
23	517 Operation supervision and engineering.....		
24	518 Fuel.....		
25	519 Coolants and water.....		
26	520 Steam expense.....		
27	521 Steam from other sources.....		
28	522 Steam transferred -- Cr.....		
29	523 Electric expenses.....		
30	524 Miscellaneous nuclear power expenses.....		
31	525 Rents.....		
32	Total Operation		
33	Maintenance:		
34	528 Maintenance supervision and engineering.....		
35	529 Maintenance of structures.....		
36	530 Maintenance of reactor plant equipment.....		
37	531 Maintenance of electric plant.....		
38	532 Maintenance of miscellaneous nuclear plant.....		
39	Total Maintenance		
40	Total power production expenses -- nuclear power		
41	HYDRAULIC POWER GENERATION		
42	Operation:		
43	535 Operation supervision and engineering.....		
44	536 Water for power.....		
45	537 Hydraulic expenses.....		
46	538 Electric expenses.....		
47	539 Miscellaneous hydraulic power generation expenses.....		
48	540 Rents.....		
49	Total Operation		

(continued on page 40)

Annual Report of The Town of Littleton Electric Light Department

Year ended December 31, 2016

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	HYDRAULIC POWER GENERATION - CONTINUED		
2	Maintenance:		
3	541 Maintenance Supervision and Engineering.....		
4	542 Maintenance of Structures.....		
5	543 Maintenance of Reservoirs, Dams and Waterways.....		
6	544 Maintenance of Electric Plant.....		
7	545 Maintenance of Miscellaneous Hydraulic Plant.....		
8	Total Maintenance		
9	Total Power Production Expenses - Hydraulic Power		
10	OTHER POWER GENERATION		
11	Operation:		
12	546 Operation Supervision and Engineering.....		
13	547 Fuel.....		
14	548 Operation Expenses.....		
15	549 Miscellaneous Other Power Generation Expenses.....		
16	550 Rents.....		
17	Total Operation		
18	Maintenance:		
19	551 Maintenance Supervision and Engineering.....		
20	552 Maintenance of Structure.....		
21	553 Maintenance of Generating and Electric Plant.....		
22	554 Maintenance of Miscellaneous Other Power Generation Plant		
23	Total Maintenance		
24	Total Power Production Expenses - Other Power		
25	OTHER POWER SUPPLY EXPENSES		
26	555 Purchased Power.....	\$13,478,485	(\$1,550,572)
27	556 System Control and Load Dispatching.....		
28	557 Other Expenses.....	\$4,384,800	\$32,020
29	Total Other Power Supply Expenses	\$17,863,285	(\$1,518,552)
30	Total Power Production Expenses	\$17,863,285	(\$1,518,552)
31	TRANSMISSION EXPENSES		
32	Operation:		
33	560 Operation Supervision and Engineering.....		
34	561 Load Dispatching.....		
35	562 Station Expenses.....		
36	563 Overhead Line Expenses.....		
37	564 Underground Line Expenses.....		
38	565 Transmission of Electricity by Others.....	\$4,512,841	\$339,594
39	566 Miscellaneous Transmission Expenses.....		
40	567 Rents.....		
41	Total Operation	\$4,512,841	\$339,594
42	Maintenance:		
43	568 Maintenance Supervision and Engineering.....		
44	569 Maintenance of Structures.....		
45	570 Maintenance of Station Equipment.....		
46	571 Maintenance of Overhead Lines.....		
47	572 Maintenance of Underground Lines.....		
48	573 Maintenance of Miscellaneous Transmission Plant.....		
49	Total Maintenance		
50	Total Transmission Expenses	\$4,512,841	\$339,594

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	DISTRIBUTION EXPENSES		
2	Operation:		
3	580 Operation Supervision and Engineering.....	374,919	(17,158)
4	581 Load Dispatching.....	60,806	(236,333)
5	582 Station Expenses.....		
6	583 Overhead Line Expenses.....		
7	584 Underground Line Expenses.....		
8	585 Street Lighting and Signal System Expenses.....	0	(561)
9	586 Meter Expenses.....	116,090	(2,135)
10	587 Customer Installations Expenses.....		
11	588 Miscellaneous Distribution Expenses.....	478,322	179,443
12	589 Rents.....		
13	Total Operation	1,030,137	(76,744)
14	Maintenance:		
15	590 Maintenance supervision and engineering.....		
16	591 Maintenance of Structures.....		
17	592 Maintenance of Station Equipment.....	3,195	1,277
18	593 Maintenance of Overhead Lines.....	386,788	75,245
19	594 Maintenance of Underground Lines.....	89,793	(14,914)
20	595 Maintenance of Line Transformers.....		
21	596 Maintenance of Street Lighting and Signal Systems....	12,231	4,196
22	597 Maintenance of Meters.....		
23	598 Maintenance of Miscellaneous Distribution Plant.....	824	(623)
24	Total Maintenance	492,832	65,181
25	Total Distribution Expenses	1,522,969	(11,562)
26	CUSTOMER ACCOUNTS EXPENSES		
27	Operation:		
28	901 Supervision.....	224,413	(20,827)
29	902 Meter Reading Expenses.....	74,507	(3,426)
30	903 Customer Records and Collection Expenses.....	95,706	(35,756)
31	904 Uncollectable Accounts.....	12,000	12,000
32	905 Miscellaneous Customer Accounts Expenses.....		
33	Total Customer Accounts Expenses	406,625	(48,009)
34	SALES EXPENSES		
35	Operation:		
36	911 Supervision.....		
37	912 Demonstrating and Selling Expenses.....	18,187	11,293
38	913 Advertising Expenses.....	24,582	(18,366)
39	916 Miscellaneous Sales Expense.....		
40	Total Sales Expenses	42,768	(7,073)
41	ADMINISTRATIVE AND GENERAL EXPENSES		
42	Operation:		
43	920 Administrative and General Salaries.....	200,859	(64,806)
44	921 Office Supplies and Expenses.....	296,233	22,817
45	922 Administrative Expenses Transferred - Cr.....		
46	923 Outside Services Employed.....	961,098	189,149
47	924 Property Insurance.....	5,857	(13,439)
48	925 Injuries and Damages.....	50,949	1,269
49	926 Employees Pensions and Benefits.....	1,394,565	403,894
50	928 Regulatory Commission Expenses.....	0	0
51	929 Duplicate Charges - Cr.....		
52	930 Miscellaneous General Expenses.....	33,799	(51,208)
53	931 Rents.....		
54	Total Operation	2,943,359	487,676

ELECTRIC OPERATION AND MAINTENANCE EXPENSES -- Continued

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	ADMINISTRATIVE EXPENSES		
2	Maintenance:		
3	932 Maintenance of General Plant.....	118,724	(37,569)
4	933 Transportation expense.....	241,849	7,774
5	Total Maintenance	360,574	(29,795)
6	Total Administrative and General Expenses	3,303,933	457,882
7	Total Electric Operation and Maintenance Expenses	27,652,421	(787,720)

SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	OPERATION (b)	MAINTENANCE (c)	TOTAL (d)
8	Power Production Expenses			
9	Electric Generation			
10	Steam Power.....			
11	Nuclear Power.....			
12	Hydraulic Power.....			
13	Other Power.....			
14	Other Power Supply Expenses.....	17,863,285		17,863,285
15	Total Power Production Expenses	17,863,285		17,863,285
16	Transmission Expenses.....	4,512,841		4,512,841
17	Distribution Expenses.....	1,030,137	492,832	1,522,969
18	Customer Accounts Expenses.....	406,625		406,625
19	Sales Expenses.....	42,768		42,768
20	Administrative and General Expenses.....	2,943,359	360,574	3,303,933
21	Support Expense Transfer			
22	Total Electric Operation and Maintenance Expenses	26,799,016	853,406	27,652,421

23	Ratio of Operating Expenses to Operating Revenues (carry out decimal two places, (e.g. 0.00%) Compute by dividing Revenues (acct 400) into the sum of Operation and Maintenance Expenses (Page 42, Line 20 (d), Depreciation (Acct 403) and Amortization (Acct 407).....	91.21%
24	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts.....	\$2,389,211.10
25	Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees)	27

OTHER UTILITY OPERATING INCOME (Account 414)

Report below the particulars called for in each column.

Line No.	Property (a)	Amount of Investment (b)	Amount of Revenue (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1					
2					
3					
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48					
49					
50					
51	TOTALS	\$0.00	\$0.00	\$0.00	\$0.00

Annual Report of The Town of Littleton Electric Light Department

Year ended December 31, 2016

INCOME FROM MERCHANDISE, JOBBING AND CONTRACT WORK (Account 415)

Report by utility departments the revenues, costs, expenses, and net income from merchandising, jobbing, and contract work during year.

Line No.	Item (a)	Electric Department (c)	Gas Department (d)	Other Utility Department (d)	Total (e)
1	Revenues:				
2	Merchandising sales, less discounts,	\$10,242.56			\$10,242.56
3	allowances and returns.....				
4	Contract Work.....	\$371,517.44			\$371,517.44
5	Commissions.....				
6	Other (List according to major classes)				
7	Administrative Support.....				\$0.00
8					
9					
10	Total Revenues.....	\$381,760.00	\$0.00	\$0.00	\$381,760.00
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to Major				
15	classes of cost).....				
16					
17	Labor	\$0.00			\$0.00
18	Materials	\$4,028.82			\$4,028.82
19	Administrative Support	\$0.00			\$0.00
20					
21					
22					
23					
24					
25					
26	Sales expenses.....				
27	Customer accounts expenses.....				
28	Administrative and general expenses.....				
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50	TOTAL COSTS AND EXPENSES	\$4,028.82	\$0.00	\$0.00	\$4,028.82
51	Net Profit (or Loss)	\$377,731.18	\$0.00	\$0.00	\$377,731.18

SALES FOR RESALE (Account 447)

1. Report sales during year to other electric utilities and to cities or other public authorities for distribution to ultimate consumers.

2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Municipalities, (4) R.E.A. Cooperatives, and (5) other public authorities. For each sale designate statistical classification in column (b), thus: firm power, FP; dump or surplus power, DP; other G,

and place an "x" in column (c) if sale involves export across a state line.

3. Report separately firm, dump, and other power sold to the same utility. Describe the nature of any sales classified as other power, column (b).

4. If delivery is made at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; customer owned or leased, CS.

Line No.	Sales to	Statistical Classification	Export Across State Lines	Point of Delivery	Substation	Kw or Kva of Demand (Specify which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	N/A							
2								
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SALES FOR RESALE (Account 447) - Continued

5 If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billings to the customer this number should be shown in column (f).. The number of kilowatts of maximum demand to be shown in column (g) and (h) should be actual based on monthly readings and should be furnished whether or not used in the determination of demand charges. Show in column (i) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).

6. The number of Kilowatt-hours sold should be the quantities shown by the bills rendered to the purchasers.

7. Explain any amounts entered in column (n) such as fuel or other adjustments.

8. If a contract covers several points of delivery and small amounts of electric energy are delivered at each point, such sale may be grouped.

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Revenue (Omit Cents)				Revenue per Kwh (cents) [0.0000] (p)	Line No.
			Demand Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
								1
								2
								3
								4
								5
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								34
TOTALS		0	\$0.00	\$0.00	\$0.00	\$0.00	0.0000	35

PURCHASED POWER (Account 555)

1. Report power purchased for resale during the year. Exclude from this schedule and report on page 56 particulars concerning interchange power transactions during the year.

2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A. Cooperatives, and (7) Other Public

Authorities. For each purchase designate statistical classification in column (b), thus: firm power, FP; dump or surplus power DP; other, O, and place an "X" in column (c) if purchase involves import across a state line.

3. Report separately firm, dump, and other power purchased from the same company. Describe the nature of any purchases classified as Other Power, column (b).

Line No.	Purchased From	Statistical Classification	Import Across State Lines	Point of Receipt	Substation	Kw or Kva Demand (Specify Which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Nextera							
2	Power Authority of New York	FP	x	Town Line	RS	1,497		
3	Wyman (MMWEC)	O		Town Line	RS	1,032		
4	Intermediate (MMWEC)	O		Town Line	RS	5,184		
5	Peaking (MMWEC)	O	x	Town Line	RS	5,202		
6	Mix 1 (MMWEC)	O	x	Town Line	RS	31		
7	Mix 3 (MMWEC)	O	x	Town Line	RS	320		
8	Mix 4 (MMWEC)	O	x	Town Line	RS	554		
9	Mix 5 (MMWEC)	O	x	Town Line	RS	554		
10	Benton Falls Hydro	O		Town Line	RS			
11	A&D Hydro	O		Town Line	RS			
12	BP Energy	O		Town Line	RS			
13	Ashuelot River Hydro	O	x	Town Line	RS	1,250		
14	Saddleback Ridge	O		Town Line	RS			
15	Ice House Partners	O		Town Line	RS			
16	NextSun Energy	O		Town Line	RS			
17	Old Wardour Holdings							
18	Vuelta Solar							
19	Messalonskee Stream Hydro							
20	Misc Cash Adjustment / Refunds							

PURCHASED POWER (Account 555) - Continued

(except interchange power)

4. If receipt of power is at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; seller owned or leased, SS. should be furnished whether or not used in the determination of demand charges. Show in column (l) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).

5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billing, this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in column (g) and (h) should be actual based on monthly readings and 6. The number of kilowatt hours purchased should be the quantities shown by the power bills.

7. Explain any amount entered in column (n) such as fuel or other adjustments.

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Cost of Energy (Omit Cents)				Cents per KWH (cents) [0.0000] (p)	Line No.
			Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
60 Minutes	115KV	22,464,000		\$646,454.43		\$646,454.43	0.0288	1
60 Minutes	115KV	6,714,480		\$33,035.19		\$33,035.19	0.0049	2
60 Minutes	115KV	143,139		\$1,253.18		\$1,253.18	0.0088	3
60 Minutes	115KV	1,609,825		\$82,661.37		\$82,661.37	0.0513	4
60 Minutes	115KV	91,563		\$20,560.23		\$20,560.23	0.2245	5
60 Minutes	115KV	2,871,871		\$19,170.19		\$19,170.19	0.0067	6
60 Minutes	115KV	2,323,427		\$15,620.03		\$15,620.03	0.0067	7
60 Minutes	115KV	10,359,984		\$65,649.24		\$65,649.24	0.0063	8
60 Minutes	115KV	1,093,052		\$6,917.07		\$6,917.07	0.0063	9
60 Minutes	115KV	12,510,107		\$1,196,858.19		\$1,196,858.19	0.0957	10
60 Minutes	115KV	3,619,038		\$340,415.16		\$340,415.16	0.0941	11
60 Minutes	115KV	177,067,600		\$8,454,034.71		\$8,454,034.71	0.0477	12
60 Minutes	115KV	2,832,960		\$198,048.85		\$198,048.85	0.0699	13
60 Minutes	115KV	7,135,098		\$657,679.75		\$657,679.75	0.0922	14
60 Minutes	115KV	681,244		\$47,687.06		\$47,687.06	0.0700	15
60 Minutes	115KV	5,286,520		\$529,555.04		\$529,555.04	0.1002	16
60 Minutes	115KV	713,277		\$43,509.72		\$43,509.72	0.0610	17
60 Minutes	115KV	713,277		\$43,509.94		\$43,509.94	0.0610	18
60 Minutes	115KV	2,834,789		\$152,823.48		\$152,823.48	0.0539	19
		(1,372,466)		(\$219,627.68)		(\$219,627.68)	0.1600	20
								21
								22
								23
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								25
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								27
								28
								29
								30
								31
								32
								33
								34
								35
								36
TOTALS		259,692,785	\$0.00	\$12,335,815.15	\$0.00	\$12,335,815.15	0.0475	37

INTERCHANGE POWER (Included in Account 555)

1. Report below the Kilowatt-hours received and delivered during the year and the net charge or credit under interchange power agreements.
 2. Provide subheadings and classify interchanges as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Non-utilities, (5) Municipalities, (6) R.E.A., Cooperatives, and (7) Other Public Authorities. For each interchange across a state line place an "X" in column (b).
 3. Particulars of settlements for interchange power

shall be furnished in Part B, Details of Settlement for Interchange Power. If settlement for any transaction also includes credit or debit amounts other than for increment generation expenses, show such other component amounts separately, in addition to debit or credit for increment generation expenses, and give a brief explanation of the factors and principles under which such other component amounts were determined. If such settlement represents the net of debits and credits under an interconnection, power pooling,

coordination, or other such arrangement, submit a copy of the annual summary of transactions and billings among the parties to the agreement. If the amount of settlement reported in this schedule for any transaction does not represent all of the charges and credits covered by the agreement, furnish in a footnote a description of the other debits and credits and state the amounts and accounts in which such other amounts are included for the year.

A. Summary of Interchange According to Companies and Points of Interchange

Line No.	Name of Company	Interchange Across State Lines	Point of Interchange	Voltage at Which Interchanged	Kilowatt-hours			Amount of Settlement
					Received	Delivered	Net Difference	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	ISO NEW ENGLAND		LITTLETON	115kv	292,292,777	254,406,264	37,886,513	1,142,670
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12				TOTALS	292,292,777	254,406,264	37,886,513	1,142,670

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)	Amount (k)
13	ISO NEW ENGLAND	ENERGY EXPENSE	1,142,670
14			
15			
16			
17			
18			
19			
20			
21		TOTALS	1,142,670

ELECTRIC ENERGY ACCOUNT

Report below the information called for concerning the disposition of electric generated, purchased, and interchanged during the year.

Line No.	Item (a)	Kilowatt-hours (b)
SOURCES OF ENERGY		
1	Generation (excluding station use):	
2	Steam..... Gas Turbine Combined Cycle	
3	Nuclear.....	
4	Hydro.....	
5	Other..... Diesel	
6	Total generation.....	0
7	Purchases.....	259,692,784
8	{ In (gross)	254,406,264
9	{ Out (gross)	292,292,777
10	Interchanges.....	37,886,513
11	{ Net (Kwh).....	
12	{ Received.....	
13	Transmission for/by others (Wh.....	
14	{ Delivered.....	
15	{ Net (kwh).....	
15	TOTAL	297,579,297
DISPOSITION OF ENERGY		
16	Sales to ultimate consumers (including interdepartmental sales).....	288,224,714
17	Sales for resale.....	
18	Energy furnished without charge	
19	Energy used by the company (excluding station use).....	
20	Electric department only.....	807,371
21	Energy losses:	
22	Transmission and conversion losses.....	1,372,468
23	Distribution losses.....	7,174,744
24	Unaccounted for losses.....	
25	Total energy losses.....	8,547,212
26	Energy losses as percent of total on line 15..... 2.87%	
27	TOTAL	297,579,297

MONTHLY PEAKS AND OUTPUT

- Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-hours) for the combined sources of electric energy of respondent.
- Monthly peak col. (b) should be respondent's maximum Kw load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange minus temporary deliveries (not interchange) or emergency power to another system. Monthly peak including such emergency deliveries should be shown in a footnote with a brief explanation as to the nature of the emergency.
- State type of monthly peak reading (instantaneous 15, 30, or 60 minute integrated.)
- Monthly output should be the sum of respondent's net generation and purchases plus or minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with line 15 above. 5. If the respondent has two or more power systems and physically connected, the information called for below should be furnished for each system.

Monthly Peak

Line No.	Month (a)	Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	Monthly Output (kwh) See Instr. 4 (g)
29	January	43,862	TUE	5	8:00	60 min	26,173,305
30	February	58,262	WED	24	18:00	"	24,652,224
31	March	38,995	THU	3	7:00	"	24,295,770
32	April	39,974	MON	4	11:00	"	22,753,154
33	May	43,574	TUE	31	17:00	"	23,639,566
34	June	45,619	MON	20	17:00	"	24,665,530
35	July	50,458	MON	18	15:00	"	27,598,751
36	August	53,104	MON	8	18:00	"	27,911,750
37	September	47,290	FRI	9	16:00	"	23,702,097
38	October	37,872	THU	27	9:00	"	23,126,314
39	November	39,053	TUE	29	18:00	"	23,278,096
40	December	44,237	FRI	16	8:00	"	25,782,740
41	TOTAL						297,579,297

TRANSMISSION LINE STATISTICS

Report information concerning transmission lines as indicated below.

Line No.	Designation		Operating Voltage (c)	Type of Supporting Structure (d)	Length (Pole Miles)		Number of Circuits (g)	Size of Conductor and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1	Town Line	Beaverbrook Substation #80	115	Wood	0.060		3	795 MCM AL
2								
3								
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46								
47	TOTALS				0.06		3	

* Where other than 60 cycle, 3 phase, so indicate.

SUBSTATIONS

1. Report below the information called for concerning substations of the respondent as of the end of the year.
 2. Substations which serve but one industrial or street railway customer should not be listed hereunder.
 3. Substations with capacities of less than 5000 Kva, except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.

4. Indicate in column (b) the functional character of each sub-station, designating whether transmission or distribution and whether attended or unattended.
 5. Show in columns (i), (j), and (k) special equipment such as rotary converters, reflectors, condensers, etc. and auxiliary equipment for increasing capacity.
 6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by

reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses of other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE			Capacity of Substation in Kva (in Service) (f)	Number Of Transformers in Service (g)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number Of Units (j)	Total Capacity (k)
1	Substation # 80	Distribution	115kv	25kv		160,000	3	0			
2											
3											
4											
5											
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7											
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24											
TOTALS						160,000	3	0			

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	TOTAL
1	Miles - Beginning of Year	31.41		31.41
2	Added During Year	0.64		0.64
3	Retired During Year	(0.46)		(0.46)
4	Miles - End of Year	31.59		31.59
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (Kva)
16	Number at beginning of year.....	6,896	7,246	1,670	163,572
17	Additions during year:				
18	Purchased.....		402	56	5,500
19	Installed.....	247		46	7,788
20	Associated with utility plant acquired.....				
21	Total additions.....	247	402	56	5,500
22	Reduction during year:				
23	Retirements.....	172	172	23	1,363
24	Associated with utility plant sold.....				
25	Total reductions.....	172	172	23	1,363
26	Number at End of Year.....	6,971	7,476	1,703	167,710
27	In Stock.....		498	165	34,250
28	Locked Meters' on customers' premises.....				
29	Inactive Transformers on System.....				
30	In Customers' Use.....		6,971	1,538	133,460
31	In Companys' Use.....		7		
32	Number at End of Year.....		7,476	1,703	167,710

CONDUIT, UNDERGROUND CABLE AND SUBMARINE CABLE -- (Distribution System)

Report below the information called for concerning conduit, underground cable, and submarine cable at end of year.

Line No.	Designation of Underground Distribution System (a)	Miles of Conduit Bank (All sizes and Types) (b)	Underground Cable		Submarine Cable	
			Miles* (c)	Operating voltage (d)	Feet* (e)	Operating Voltage (f)
1	1/0 Aluminum		58.50	25kv		
2	4/0 Aluminum		0.60	25kv		
3	500 MCM CU		6.28	25kv		
4	500 MCM AL		0.00	25kv		
5	750 MCM AL		0.00	25kv		
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34	TOTALS	0.0	#NAME?			

*Indicate number of conductors per cable.

STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town (a)	Total (b)	TYPE							
			Incandescent		Mercury Vapor		LED		Metal Halide	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Littleton	1,047				109	522	66	235	115
2	Boxborough	173				31	7	13	30	92
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51										
52	TOTALS	1,220	0	0	0	140	529	79	265	207

RATE SCHEDULE INFORMATION

1. Attach copies of all Filed Rates for General Consumers.
2. Show below the changes in rate schedules during year and the estimated increase or decrease in annual revenue predicted on the previous year's operations.

Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect of Annual Revenues	
			Increases	Decrease
		N/A		

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

N/A

Mayor

DocuSigned by:

Scott Edwards

B22FCF3B961F47E...

Manager of Electric Light

DocuSigned by:

Bruce Trumbull

A14CA863C5F8402...

**Selectmen
or
Members
of the
Municipal
Light
Board**

DocuSigned by:

[Signature]

794F508BFA34497...

DocuSigned by:

James Karr

0D2D607C996B4CF...