

# *The Commonwealth of Massachusetts*

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## **RETURN**

OF THE

TOWN OF

*ROWLEY, MASSACHUSETTS*

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:

*Daniel J. Folding*

Official title:

*Manager*

Office address:

*47 Summer Street*

Form AC-19

*Rowley, MA 01969*

## GENERAL INFORMATION

1. Name of town (or city) making report. Rowley, MA
2. If the town (or city) has acquired a plant,  
 Kind of plant, whether gas or electric. Electric  
 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, 131; No, 6 Second vote: Yes, 122; No, 2 Dec. 10, 1909 & Feb. 12, 1910  
 Date when town (or city) began to sell gas and electricity, March 14, 1910
3. Name and address of manager of municipal lighting:  
 Daniel Folding, 27 Whittier Road, Newton, N.H. 03858
4. Name and address of mayor or selectman:  
 Robert Snow, 7 Saunders Lane, Rowley, MA 01969  
 G. Robert Merry, 40 Warehouse Lane, Rowley, MA 01969  
 Joseph Perry, 7 Bennett Hill Road, Rowley, MA 01969  
 David C. Petersen, 25 Newbury Road, Rowley, MA  
 Clifford Pierce, 399 Wethersfield Street, Rowley, MA 01969
5. Name and address of town (or city) treasurer:  
 Karen Summit, 118 Central Street, Rowley, MA 01969
6. Name and address of town (or city) clerk:  
 Susan Hazen, 4 Central Street, Rowley, MA 01969
7. Names and addresses of members of municipal light board:  
 G. Robert Merry, 40 Warehouse Lane, Rowley, MA 01969  
 Robert Snow, 7 Saunders Lane, Rowley, MA 01969  
 Kenneth Keyes, 16 Railroad Avenue, Rowley, MA 01969
8. Total valuation of estates in town (or city) according to last State Valuation \$ 978,929,000.00
9. Tax rate for all purposes during the year: \$ 14.14
10. Amount of manager's salary: \$ 130,566.08
11. Amount of manager's bond: \$ 20,000.00
12. Amount of salary paid to members of municipal light board (each) \$ None

City or Town	Number of Customers' Meters, Dec. 31	City or Town	Number of Customers' Meters, Dec. 31
		Rowley	2,915
<b>Total</b>		<b>Total</b>	2,915

**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 !

\$

TOTAL \$

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

1.	Street lights .....	\$	35,000.00
2.	Municipal buildings.....	\$	11,000.00
3.			
		TOTAL	46,000.00

\*Date of meeting and whether regular or special.

! Here insert bonds, notes or tax levy.

**CHANGES IN 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:

In gas property:



(Issued on Account of Gas or Electric Lighting)

The bonds and notes outstanding at end of year should agree with the Balance Sheet. When bonds and notes are repaid report the first three columns only.

! List original issues of bonds and notes including those that have been retired.

(ISSUED ON ACCOUNT OF GAS OR ELECTRIC LIGHTING.)

[illegible]

The bonds and notes outstanding at end of year should agree with the Balance Sheet. When bonds and notes are repaid report the first three columns only.

\*Date of meeting and whether regular or special

! List original issues of bonds and notes including those that have been retired.

TOTAL COST OF PLANT - ELECTRIC (Continued)							
Line No.	Account (a)	Balance					Balance End of Year (g)
		Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	
1	<b>4. DISTRIBUTION PLANT</b>						
2	360 Land and Land Rights.....	267,334.75					267,334.75
3	361 Structures and Improvements.....	171,018.29	4,470.00				175,488.29
4	362 Station Equipment.....	2,555,904.08	8,577.67				2,564,481.75
5	363 Storage Battery Equipment.....						
6	364 Poles, Towers and Fixtures.....	1,031,822.18	66,296.83	1,338.10			1,096,780.91
7	365 Overhead Conductors and Devices...	1,023,855.76	60,157.92				1,084,013.68
8	366 Underground Conduits.....	52,992.15	7,689.12				60,681.27
9	367 Underground Conductors & Devices	209,933.41	7,215.85				217,149.26
10	368 Line Transformers.....	593,269.94	20,474.52				613,744.46
11	369 Services.....	242,831.51	8,991.60				251,823.11
12	370 Meters.....	368,777.54	3,306.34	657.50			371,426.38
13	371 Installation on Cust's Premises.....						
14	372 Leased Prop. on Cust's Premises.....	84,535.96	9,675.46	14,743.25			79,468.17
15	373 Street Light and Signal Systems.....	280,820.93	19,268.62	3,396.68			296,692.87
16	Total Distribution Plant.....	6,883,096.50	216,123.93	20,135.53			7,079,084.90
17	<b>5. GENERAL PLANT</b>						
18	389 Land and Land Rights.....	15,000.00					15,000.00
19	390 Structures and Improvements.....	420,275.44					420,275.44
20	391 Office Furniture and Equipment.....	198,526.37					198,526.37
21	392 Transportation Equipment.....	1,018,591.40	136,577.00	10,202.00			1,144,966.40
22	393 Stores Equipment.....	1,852.56					1,852.56
23	394 Tools, Shop & Garage Equipment.....	184,240.56	3,884.84				188,125.40
24	395 Laboratory Equipment.....						
25	396 Power Operated Equipment.....						
26	397 Communication Equipment.....	55,793.23					55,793.23
27	398 Miscellaneous Equipment.....	16,877.74					16,877.74
28	399 Other Tangible Property.....						
29	Total General Plant.....	1,911,157.30	140,461.84	10,202.00			2,041,417.14
30	Total Electric Plant in Service.....	8,794,253.80	356,585.77	30,337.53			9,120,502.04
31	Total cost of Electric Plant.....						9,120,502.04
32							
33	Less Cost of Land, Land Rights, Rights of Way.....						282,334.75
34	Total cost upon which depreciation is based.....						8,838,167.29

The above figures should show the original cost of the 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.

8,838,167.29 X 3% = 265,145.02

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	<b>C. Hydraulic Production Plant</b>						
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	<b>D. Other Production Plant</b>						
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	<b>3. TRANSMISSION PLANT</b>						
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 Fixtures.....						
26	355 Poles and Fixtures.....						
27	356 Overhead Conductors and Devices						
28	357 Underground Conduits..						
29	358 Underground Conductors and Devices.....						
30	359 Roads and Trails.....						
31	Total Transmission Plant.....						

## COMPARATIVE BALANCE SHEET Assets and Other Debits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	<b>UTILITY PLANT</b>			
2	101 Utility Plant - Electric (P.17).....	4,141,692.88	4,232,719.05	91,026.17
3	101 Utility Plant - gas (P.20).....			
4				
5	Total Utility Plant.....	4,141,692.88	4,232,719.05	91,026.17
6				
7				
8				
9				
10				
11	<b>FUND ACCOUNTS</b>			
12	125 Sinking Funds.....			
13	126 Depreciation Fund (P. 14).....	3,883,328.35	3,970,623.49	87,295.14
14	128 Other Special Funds.....	1,613,272.11	1,331,200.85	(282,071.26)
15	Total Funds.....	5,496,600.46	5,301,824.34	(194,776.12)
16	<b>CURRENT AND ACCRUED ASSETS</b>			
17	131 Cash (P. 14).....	165,949.33	114,363.20	(51,586.13)
18	132 Special Deposits.....	96,465.00	109,550.00	13,085.00
19	132 Working Funds.....	690.00	600.00	(90.00)
20	141 Notes Receivable.....			
21	142 Customer Accounts Receivable .....	282,825.44	324,035.38	41,209.94
22	143 Other Accounts Receivable.....	38,001.39	40,635.32	2,633.93
23	146 Receivables from Municipality.....			
24	151 Materials and Supplies (P.14).....	73,165.66	72,487.44	(678.22)
25				
26	165 Prepayments.....	813,773.67	1,029,360.80	215,587.13
27	174 Miscellaneous Current Assets.....	15,771.51	1,962.60	(13,808.91)
28	Total Current and Accrued Assets.....	1,486,642.00	1,692,994.74	206,352.74
29	<b>DEFERRED DEBITS</b>			
30	181 Unamortized Debt Discount.....			
31	182 Extraordinary Property Losses.. ..			
32	183 Other Deferred Debits.....			
33	Total Deferred Debits.....			
34				
35	Total Assets and Other Debits.....	11,124,935.34	11,227,538.13	102,602.79

**COMPARATIVE BALANCE SHEET Liabilities and Other Credits**

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	<b>APPROPRIATIONS</b>			
2	201 Appropriations for Construction .....			
3	<b>SURPLUS</b>			
4	205 Sinking Fund Reserves.....			
5	206 Loans Repayments .....	2,279,200.00	2,279,200.00	0.00
6	207 Appropriations for Construction Repayments.....	11,769.93	0.00	(11,769.93)
7	208 Unappropriated Earned Surplus (P.12).....	6,352,573.02	4,973,493.34	(1,379,079.68)
8	Total Surplus.....	8,643,542.95	7,252,693.34	(1,390,849.61)
9	<b>LONG TERM DEBT</b>			
10	221 Bonds (P.6).....	0.00	0.00	0.00
11	231 Notes Payable (P.7).....			
12	Total Bonds and Notes.....	0.00	0.00	0.00
13	<b>CURRENT AND ACCRUED LIABILITIES</b>			
14	232 Accounts Payable.....	476,985.02	373,840.55	(103,144.47)
15	234 Payables to Municipality.....			
16	235 Customer's Deposits.....	96,465.00	109,550.00	13,085.00
17	236 Taxes Accrued.....	2,470.78	2,690.33	219.55
18	237 Accrued Expenses .....	527,171.57	2,112,502.87	1,585,331.30
19	242 Miscellaneous Current and Accrued Liabilities.....	15,771.51	1,962.60	(13,808.91)
20	Total Current and Accrued Liabilities.....	1,118,863.88	2,600,546.35	1,481,682.47
21	<b>DEFERRED CREDITS</b>			
22	251 Unamortized Premium on Debt .....			
23	252 Customer Advances for Construction.....	27,106.64	27,106.64	0.00
24	253 Other Deferred Credits.....			
25	Total Deferred Credits.....	27,106.64	27,106.64	0.00
26	<b>RESERVES</b>			
27	260 Reserves for Uncollectable Accounts.....	53,179.69	53,179.69	0.00
28	261 Property Insurance Reserve.....			
29	262 Injuries and Damages Reserves .....			
30	263 Pensions and Benefits.....			
31	265 Miscellaneous Operating Reserves.....			
32	Total Reserves.....	53,179.69	53,179.69	0.00
33	<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>			
34	271 Contributions in Aid of Construction.....	1,282,242.18	1,294,012.11	11,769.93
35	Total Liabilities and Other Credits.....	11,124,935.34	11,227,538.13	102,602.79

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.

In Lieu of Tax Payment: \$33,273.76

## STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Total	
		Current Year (b)	Increase of (Decrease) from Preceding Year (c)
1	<b>OPERATING INCOME</b>		
2	400 Operating Revenue (P.37 and 43).....	6,179,088.93	(302,372.35)
3	Operating Expenses:		
4	401 Operation Expense (P.42 and 47).....	5,465,979.05	(401,159.14)
5	402 Maintenance Expense (P.42 and 47).....	311,942.30	18,080.44
6	403 Depreciation Expense.....	255,357.60	6,293.64
7	407 Amortization of Property Losses.....		
8			
9	408 Taxes (P.49).....		
10	Total Operating Expenses.....	6,033,278.95	(376,785.06)
11	Operating Income.....	145,809.98	74,412.71
12	414 Other Utility Operating Income (P.50).....		
13			
14	Total Operating Income.....	145,809.98	74,412.71
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing and Contract Work (P.51)		
17	419 Interest Income.....	85,640.57	30,723.93
18	421 Miscellaneous Nonoperating Income.....		
19	Total Other Income.....	85,640.57	30,723.93
20	Total Income.....	231,450.55	105,136.64
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization.....		
23	426 Other Income Deductions.....		
24	Total Income Deductions.....	0.00	
25	Income Before Interest Charge.....	231,450.55	105,136.64
26	<b>INTEREST CHARGES</b>		
27	427 Interest on Bonds and Notes.....	0.00	0.00
28	428 Amortization of Debt Discount and Expense.....		
29	429 Amortization of Premium on Debt - Credit.....		
30	431 Other Interest Expense.....		
31	432 Interest Charged to Construction-Credit.....		
32	Total Interest Charges.....	0.00	0.00
33	<b>NET INCOME.....</b>	231,450.55	105,136.64

## EARNED SURPLUS

Line No.	(a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period).....		6,352,573.02
35			
36			
37	433 Balance Transferred from Income.....		231,450.55
38	434 Miscellaneous Credits to Surplus.....		
39	435 Miscellaneous Debits to Surplus.....	1,577,256.47	
40	436 Appropriations of Surplus (P.21).....	33,273.76	
41	437 Surplus Applied to Depreciation.....		
42	208 Unappropriated Earned Surplus (at end of period).....	4,973,493.34	
43			
44	<b>Totals</b>	6,584,023.57	6,584,023.57

**CASH BALANCES AT END OF YEAR (Account 131)**

Line No.	Items (a)	Amount (b)
1	Operation Fund.....	114,363.20
2	Interest Fund.....	
3	Bond Fund.....	
4	Construction Fund.....	
5	Rate stabilization fund.....	1,219,068.21
6	Light Opeb Fund .....	112,132.64
7		
8		
9		
10		
11		
12	<b>TOTAL</b>	<b>1,445,564.05</b>

**MATERIALS AND SUPPLIES (Accounts 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).....	72,487.44	
17	Merchandise (Account 155).....		
18	Other Materials and Supplies (Account 156).....		
19	Nuclear Fuel Assemblies and Components - In Reactor (Account 157).....		
20	Nuclear Fuel Assemblies and Components - Stock Account (Account 158).....		
21	Nuclear Byproduct Materials (Account 159).....		
22	Stores Expense (Account 163).....		
23	Total Per Balance Sheet \$ .....	72,487.44	

**DEPRECIATION FUND ACCOUNT (Account 136)**

Line No.	(a)	Amount (b)
24	<b>DEBITS</b>	
25	Balance of account at beginning of year.....	3,883,328.35
26	Income during year from balance on deposit.....	45,421.54
27	Amount transferred from income.....	255,357.60
28		
29	<b>TOTAL</b>	<b>4,184,107.49</b>
30	<b>CREDITS</b>	
31	Amount expended for construction purposes (Sec. 57,C.164 of G.L.).....	
32	Amounts transferred to operating cash	213,484.00
33		
34		
35		
36		
37		
38		
39	Balance on hand at end of year.....	3,970,623.49
40	<b>TOTAL</b>	<b>4,184,107.49</b>



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 (c)
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	<b>3. TRANSMISSION PLANT</b>						
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 Fixtures.....						
26	355 Poles and Fixtures.....						
27	356 Overhead Conductors and Devices						
28	357 Underground Conduits.....						
29	358 Underground Conductors and Devices.....						
30	359 Roads and trails.....						
31	Total Transmission Plant.....						

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	<b>4. DISTRIBUTION PLANT</b>						
2	360 Land and Land Rights.....	267,334.75					267,334.75
3	361 Structures and Improvements.....	6,984.00	4,470.00	216.00			11,238.00
4	362 Station Equipment.....	794,308.74	8,577.67	81,647.40			721,239.01
5	363 Storage Battery Equipment.....						
6	364 Poles, Towers and Fixtures.....	598,189.91	66,296.83	30,954.72			633,532.02
7	365 Overhead Conductors and Devices....	406,900.31	60,157.92	30,715.68			436,342.55
8	366 Underground Conduits.....	16,077.32	7,689.12	1,589.76			22,176.68
9	367 Underground Conductors & Devices....	80,075.24	7,215.85	6,297.96			80,993.13
10	368 Line Transformers.....	296,192.39	20,474.52	17,798.04			298,868.87
11	369 Services.....	110,783.71	8,991.60	7,284.96			112,490.35
12	370 Meters.....	274,391.87	3,306.34	11,063.28			266,634.93
13	371 Installation on Cust's Premises.....						
14	372 Leased Prop. on Cust's Premises.....	37,623.41	9,675.46	2,536.08			44,762.79
15	373 Street Light and Signal Systems.....	179,534.42	19,268.62	8,424.60			190,378.44
16	Total Distribution Plant.....	3,068,396.07	216,123.93	198,528.48			3,085,991.52
17	<b>5. GENERAL PLANT</b>						
18	389 Land and Land Rights.....	15,000.00					15,000.00
19	390 Structures and Improvements.....	126,526.39		12,608.28			113,918.11
20	391 Office Furniture and Equipment.....	86,598.95		5,955.84			80,643.11
21	392 Transportation Equipment.....	698,784.26	126,375.00	30,557.76			794,601.50
22	393 Stores Equipment.....	1,852.56					1,852.56
23	394 Tools, Shop & Garage Equipment.....	111,332.11	3,884.84	5,527.20			109,689.75
24	395 Laboratory Equipment.....						
25	396 Power Operated Equipment.....						
26	397 Communication Equipment.....	31,986.33		1,673.76			30,312.57
27	398 Miscellaneous Equipment.....	1,216.21		506.28			709.93
28	399 Other Tangible Property.....						
29	Total General Plant.....	1,073,296.81	130,259.84	56,829.12			1,146,727.53
30	Total Electric Plant in Service.....	4,141,692.88	346,383.77	255,357.60			4,232,719.05
31	104 Utility Plant Leased to Others.....						
32	105 Property Held for Future Use.....						
33	107 Construction Work in Progress.....						
34	Total Utility Plant Electric.....	4,141,692.88	346,383.77	255,357.60			4,232,719.05

MISCELLANEOUS NONOPERATING INCOME (Account 421)		
Line No.	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6	TOTAL	
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		
25		
26		
27		
28		
29		
30		
31		
32	TOTAL	0.00
APPROPRIATIONS OF SURPLUS (Account 436)		
Line No.	Item (a)	Amount (b)
33		
34	In Lieu of Tax Payment	33,273.76
35		
36		
37		
38		
39		
40	TOTAL	33,273.76

<b>MUNICIPAL REVENUES (Account 482,444)</b> (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	482				
2					
3					
4					
		<b>TOTALS</b>			
		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)	68,677	10,199.37	0.1485
7					
8					
9					
10					
11					
12		<b>TOTALS</b>	68,677	10,199.37	0.1485
13					
14		Street Lighting:	213,008	33,273.76	0.1562
15					
16					
17					
18		<b>TOTALS</b>	213,008	33,273.76	0.1562
19		<b>TOTALS</b>	281,685	43,473.13	0.1543
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		Daniels Road, Rowley			
21		23,000 volts			
22	ISO of Energy New England		5,936,659	2,074,189.79	0.3494
23	Miller Hydro		1,020,842	54,473.49	0.0534
24	PASNY		2,613,201	60,294.37	0.0231
25	Spruce Mountain Wind		1,439,522	142,872.66	0.0993
26	National Grid			299,984.91	
27	NextEra		11,712,000	650,231.33	0.0555
28	Sale to Granite and Fin. Strmnt NextEra			(94,800.01)	
29	Shell Energy		21,124,700	961,173.85	0.0455
30	Saddleback Ridge		1,219,985	113,402.12	0.0930
31	Hydro Quebec Phase 1 & 2			7,119.32	
32		<b>TOTALS</b>	45,066,909	4,268,941.83	0.0947
SALES FOR RESALE (Account 447)					
Line No.	Names of Utilities to which Electric Energy is Sold (a)	Where and at What Voltage Delivered (b)	K.W.H. (c)	Amount (d)	Revenue per K.W.H. (cents) (0.0000) (e)
33					
34					
35					
36					
37					
38					
39					
40					
41					
42		<b>TOTALS</b>			

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.

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.

Account (a)	Operating Revenues		Kilowatt-hours Sold		Average Number of Customers per Month	
	Amount for year (b)	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)
<b>SALES OF ELECTRICITY</b>						
440 Residential Sales .....	3,299,130.83	(213,315.04)	21,585,035	(1,146,694)	2,493	(9)
442 Commercial and Industrial Sales:						
Small (or Commercial) see instr. 5.....	335,810.73	(210,063.45)	3,627,360	375,897	224	(23)
Large (or Industrial) see instr. 5 .....	2,397,607.95	130,313.01	15,283,529	(585,213)	184	48
444 Municipal Sales (Page 22).....	43,473.13	(22,763.92)	281,685	(173,256)	9	(1)
445 Other Sales: Private Area Lighting .....	50,074.24	(6,657.24)	238,212	(25,115)	99	(1)
446 Sales to Railroads and Railways.....						
448 Interdepartmental Sales.....						
449 Miscellaneous Sales.....						
Total Sales to Ultimate Consumers	6,126,096.88	(322,486.64)	41,015,821	(1,554,381)	3,009	14
447 Sales for Resale.....						
Total Sales of Electricity*.....	6,126,096.88	(322,486.64)	41,015,821	(1,554,381)	3,009	14
<b>OTHER OPERATING REVENUES</b>						
450 Forfeited Discounts.....						
451 Miscellaneous Service Revenues.....						
453 Sales of Water and Water Power.....						
454 Rent from Electric Property.....	0.00	0.00				
455 Interdepartmental Rents.....						
456 Other Electric Revenues.....	52,992.05	20,114.29				
Total Other Operating Revenues .....	52,992.05	20,114.29				
Total Electric Operating Revenue.....	6,179,088.93	(302,372.35)				
			*Includes revenues from application of fuel clauses \$2,034,761.29  Total KWH to which applied.....37,174,778			

## SALES OF ELECTRICITY TO ULTIMATE CONSUMERS

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

Line No.	Acct. 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	Rate - A	21,585,035	3,299,130.83	15.2843	2,495	2,495
3	442	Rate - B	3,627,360	335,810.73	9.2577	231	224
4	442.1	Rate - C	15,283,529	2,397,607.95	15.6875	167	184
5	444	Municipal	68,677	10,199.37	14.8512	9	9
6	444.1	St. Lights Municipal	213,008	33,273.76	15.6209	1	1
7	445.1	Private Area Lights	238,212	50,074.24	21.0209	99	99
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48							
49	TOTAL SALES TO ULTIMATE CONSUMERS (Page 37 line 1)		41,015,821	6,126,096.88	14.9359	3,002	3,012

**ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued**

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>HYDRAULIC POWER GENERATION - Continued</b>	\$	\$
2	Maintenance:		
3	541 Maintenance Supervision and engineering.....		
4	542 Maintenance of structure: res.....		
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	<b>OTHER POWER GENERATION</b>		
11	Operation:		
12	546 Operation supervision and engineering.....		
13	547 Fuel.....		
14	548 Generation Expenses.....		
15	549 Miscellaneous other power generation expense.....		
16	550 Rents.....		
17	Total Operation.....		
18	Maintenance:		
19	551 Maintenance supervision and engineering.....		
20	552 Maintenance of Structures.....		
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	<b>OTHER POWER SUPPLY EXPENSES</b>		
26	555 Purchased power.....	4,268,941.83	(460,039.45)
27	556 System control and load dispatching .....		
28	557 Other expenses.....	75,337.79	4,718.81
29	Total other power supply expenses.....	4,344,279.62	(455,320.64)
30	Total power production expenses.....	4,344,279.62	(455,320.64)
31	<b>TRANSMISSION EXPENSES</b>		
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.....		
39	566 Miscellaneous transmission expenses.....		
40	567 Rents.....		
41	Total Operation.....		
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.....		

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
		\$	\$
1	<b>DISTRIBUTION EXPENSES</b>		
2	Operation:		
3	580 Operation supervision and engineering.....		
4	581 Load dispatching.....		
5	582 Station expenses.....	0.00	0.00
6	583 Overhead line expenses.....	142,409.35	4,322.72
7	584 Underground line expenses.....		
8	585 Street lighting and signal system expenses.....		
9	586 Meter expenses.....	7,915.36	1,049.40
10	587 Customer installations expenses.....	4,323.37	(1,710.94)
11	588 Miscellaneous distribution expenses.....	51,473.86	(6,467.86)
12	589 Rents .....		
13	Total operation.....	206,121.94	(2,806.68)
14	Maintenance:		
15	590 Maintenance supervision and engineering.....	68,536.08	2,776.22
16	591 Maintenance of structures.....	42.03	42.03
17	592 Maintenance of station equipment.....	19,392.67	2,721.00
18	593 Maintenance of overhead lines.....	189,749.56	27,871.11
19	594 Maintenance of underground lines.....	17,438.50	(17,119.15)
20	595 Maintenance of line transformers.....	3,196.53	1,024.81
21	596 Maintenance of street lighting and signal systems.....	10,374.95	969.99
22	597 Maintenance of meters.....	0.00	0.00
23	598 Maintenance of miscellaneous distribution plant.....	0.00	0.00
24	Total maintenance.....	308,730.32	18,286.01
25	Total distribution expenses.....	514,852.26	15,479.33
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	Operation:		
28	901 Supervision.....		
29	902 Meter reading expenses.....	5,030.00	(951.69)
30	903 Customer records and collection expenses.....	94,322.99	(3,510.95)
31	904 Uncollectable accounts.....	5,245.44	2,454.70
32	906 Conservation/efficiency .....	5,346.32	(213.07)
33	Total customer accounts expenses.....	109,944.75	(2,221.01)
34	<b>SALES EXPENSES</b>		
35	Operation:		
36	911 Supervision.....		
37	912 Demonstrating and selling expenses.....		
38	913 Advertising expenses.....	2,386.21	(8,226.75)
39	916 Miscellaneous sales expenses.....		
40	Total sales expenses.....	2,386.21	(8,226.75)
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	Operation:		
43	920 Administrative and general salaries.....	203,537.68	10,337.42
44	921 Office supplies and expenses.....	34,872.24	(3,214.26)
45	922 Administrative expenses transferred - Cr.....		
46	923 Outside services employed.....	141,156.28	20,251.69
47	924 Property insurance .....	19,764.00	(7,790.70)
48	925 Injuries and damages.....	7,739.44	2,007.05
49	926 Employee pensions and benefits.....	291,419.40	5,177.01
50	928 Regulatory commission expenses.....		
51	929 Duplicate charges - Cr.....		
52	930 Miscellaneous general expenses.....	26,818.78	4,838.05
53	931 Rents .....		
54	Total operation.....	725,307.82	31,606.26



**ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued**

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>ADMINISTRATIVE AND GENERAL EXPENSES--Cont.</b>	\$	\$
2	Maintenance:		
3	932 Maintenance of general plant.....	3,211.98	(205.57)
4	933 Transportation expense.....	44,834.91	2,705.88
5	Total administrative and general expenses .....	773,354.71	34,106.57
	Total Electric Operation and Maintenance Expenses.....	5,744,817.55	(229,869.51)

**SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES**

Line No.	Functional Classification (a)	Operation (b)	Maintenance (c)	Total (d)
6	Power Production Expenses			
7	Electric Generation:			
8	Steam power.....			
9	Nuclear power.....			
10	Hydraulic power.....			
11	Other power.....			
12	Other power supply expenses.....	4,344,279.62		4,344,279.62
13	Total power production expenses.....	4,344,279.62		4,344,279.62
14	Transmission Expenses .....			
15	Distribution Expenses.....	206,121.94	308,730.32	514,852.26
16	Customer Accounts Expenses.....	109,944.75		109,944.75
17	Sales Expenses.....	2,386.21		2,386.21
18	Administrative and General Expenses.....	725,307.82	48,046.89	773,354.71
19	Total Electric Operation and			
20	Maintenance Expenses.....	5,388,040.34	356,777.21	5,744,817.55

- 21 Ratio of operating expenses to operating revenues (carry out decimal two places, e.g.:0.00%) 87.20%
- 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)).....
- 22 Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts..... \$869,696.97
- 23 Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees) 8

**ELECTRIC ENERGY ACCOUNT**

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

Line No.	Item (a)	Kilowatt-hours (b)
1	<b>SOURCES OF ENERGY</b>	
2	Generation (excluding station use):	
3	Steam.....	
4	Nuclear.....	
5	Hydro.....	
6	Other.....	
	Total Generation.....	
7	Purchases.....	45,066,909
8	In (gross).....	*****
9	Interchanges..... Out (gross).....	*****
10	Net (kWh).....	
12	Received.....	*****
13	Transmission for/by others (wheeling)..... Delivered.....	*****
14	Net (kWh).....	
15		
16	<b>TOTAL</b> .....	45,066,909
17	<b>DISPOSITION OF ENERGY</b>	
18	Sales to ultimate consumers(including interdepartmental sales).....	40,802,813
19	Sales for resale.....	
20	Energy furnished without charge.....	
21	Energy used by the company(excluding station use):.....	
22	Electric Department only.....	184,360
23	Energy losses:	
24	Transmission and conversion losses.....	1631894.4
25	Distribution losses.....	
26	Unaccounted for losses.....	2447841.6
27	Total energy losses.....	4079736
28	Energy losses as percent of total on line 15..... 9.05%	4,079,736
	Unaccounted Losses..... 5.43%	
	<b>TOTAL</b> .....	45,066,909

**MONTHLY PEAKS AND OUTPUT**

1. Reports 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. 2. 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) of 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.

3. State type of monthly peak reading (instantaneous 15, 30, or 60 minutes intergrated.)  
 4. 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 not physically connected, the information called for below should be furnished for each system.

Rowley, MA

System

Line No.	Month (a)	Monthly Peak					Monthly Output (kWh) (See Instr. 4) (g)
		Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	
29	January.....	7,491	Tuesday	1/19	1800-1900	60 MIN	3,986,902
30	February.....	7,378	Monday	2/15	1800-1900	60 MIN	3,601,959
31	March.....	6,687	Friday	3/14	1900-2000	60 MIN	3,545,726
32	April.....	6,507	Monday	4/4	1200-1300	60 MIN	3,215,948
33	May.....	7,781	Tuesday	5/31	1700-1800	60 MIN	3,352,792
34	June.....	8,533	Monday	6/27	1500-1600	60 MIN	3,763,243
35	July.....	10,890	Friday	7/22	1600-1700	60 MIN	4,662,185
36	August.....	11,556	Friday	8/12	1400-1500	60 MIN	4,753,723
37	September.....	9,678	Friday	9/9	1600-1700	60 MIN	3,579,425
38	October.....	5,893	Thursday	10/27	1900-2000	60 MIN	3,220,823
39	November.....	6,706	Tuesday	11/29	1800-1900	60 MIN	3,366,104
40	December.....	7,952	Friday	12/16	1800-1900	60 MIN	4,018,079
41						<b>TOTAL</b>	45,066,909

## 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 substation, designating whether transmission or distribution and whether attended or unattended.

5. Show in columns (i), (j), and (k) special equipment such as rotary converters, rectifiers, 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 Trans- formers in Service (g)	Number of Spare Trans- formers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number of Units (j)	Total Capacity (k)
1	Power House Road, Rowley	DISTRIBUTION UNATTENDED	23,000	13,200		7,500	2	0	NONE NONE		
2						15,500	1				
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32	TOTALS					22,500.	3	0			

## OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles-Beginning of Year.....	49.11		49.11
2	Added During Year.....			
3	Retired During Year.....			
4	Miles-End of Year.....	49.11		49.11
5	Distribution System Characteristics--A.C. or D.C., phase, cycles and operating voltages for Light and Power. 3 Phase 4 Wire 2400/4160 Y 60 H2 AC to 120/240 1 Phase 3 Wire 240 3 Phase 3 Wire 480 3 Phase 3 Wire 120/240 3 Phase 4 Wire 277/480 3 Phase 4 Wire			
6				
7				
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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 .....	2,376	3,070	746	27,095.0
17	Additions During the Year:				
18	Purchased.....	*****	4	19	712.5
19	Installed.....	5	*****	*****	*****
20	Associated with Utility Plant Aquired.				
21	Total Addition .....	5	4	19	712.5
22	Reductions During the Year:				
23	Retirements.....	1	8	30	807.5
24	Associated with Utility Plant Sold..				
25	Total Reductions.....	1	8	31	1,057.5
26	Number at End of Year.. .....	2,380	3,066	734	26,750.0
27	In Stock.....		147	78	4,362.5
28	Locked Meters on Customers' Premis .....				
29	Inactive Transformers on System.....			1	15.0
30	In Customers' Use.....		2,915	650	22,220.0
31	In Company's Use.....		4	5	152.5
32	Number at End of Year... .....		3,066	734	26,750.0

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 & types) (b)	UnderGround Cable		Submarine Cable	
			Miles* (c)	Operating Voltage (d)	Feet (e)	Operating Voltage (f)
1	DISTRIBUTION		(2) 2.10	4.16kv		
2	DISTRIBUTION		(2) 5.98	13.20KV		
3	DISTRIBUTION		(2) 0.45	13.20KV		
4	545 Newburyport Turnpike (U-115)	(2) 2.00	(2) 1.00	13.20KV		
5	Wilkes Road (U-104)	(2) .156	(2) 0.284	13.20KV		
6	Wild Pasture Lane (U-117)	(2) 1.06	(2) 0.53	13.20KV		
7	Oakledge Circle (U-118)	(2) .42	(2) 0.21	13.20KV		
8	Arrowhead Circle (U-119)	(2) .42	(2) 0.21	13.20KV		
9	Dexter Lane (U-120)	(2) .50	(2) 0.25	13.20KV		
10	Gurczak Lane (U-109)	(2) .54	(2) 0.27	7.620KV		
11	Arbor Way (U-80)	(1) .07	(2) 0.07	7.620KV		
12	Ice Pond Drive (U-83)	(2) .30	(2) 0.15	7.620KV		
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34	TOTALS	5.466	11.504			

\*Indicate number of conductors per cable

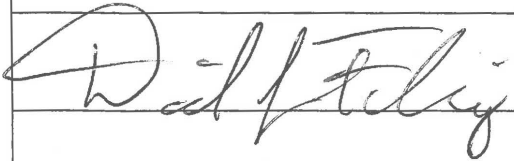
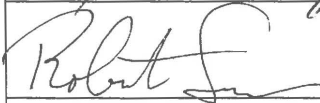
STREET LAMPS CONNECTED TO SYSTEM										
Line No.	City or Town  (a)	Total  (b)	Type							
			LED		Mercury Vapor		Metel Halide		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	ROWLEY	851	195	128	2	72	3	26	370	55
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52	TOTALS	851	195	128	2	72	3	26	370	55

**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 predicated on the previous year's operations.

Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect on Annual Revenues	
			Increases	Decreases
		COPIES OF RATES ATTACHED		

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

\_\_\_\_\_  
Mayor\_\_\_\_\_  
Manager of Electric Light\_\_\_\_\_  
Selectmen  
or  
Members  
of the  
Municipal  
Light  
BoardSIGNATURES OF ABOVE PARTIES AFFIXED OUTSIDE THE COMMONWEALTH OF  
MASSACHUSETTS MUST BE PROPERLY SWORN TO\_\_\_\_\_  
ss. \_\_\_\_\_ 2016

Then personally appeared

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

and severally made oath to the truth of the foregoing statement by them subscribed according to their best knowledge and belief.

\_\_\_\_\_  
Notary Public or  
Justice of the Peace