

The Commonwealth of Massachusetts

RETURN

OF THE

TOWN OF

ROWLEY, MASSACHUSETTS

TO THE

**DEPARTMENT OF
PUBLIC UTILITIES**

OF MASSACHUSETTS

For The Year Ended December 31,

2017

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. 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	Electric
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	\$ 1,044,857,200.00
9. Tax rate for all purposes during the year:	\$ 14.58
10. Amount of manager's salary:	\$ 135,790.96
11. Amount of manager's bond:	\$ 20,000.00
12. Amount of salary paid to members of municipal light board (each)	\$ None

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.

		Amount
	INCOME FROM PRIVATE CONSUMERS:	
1	From sales of gas	
2	From sales of electricity	7,000,000.00
3	Total	7,000,000.00
4		
5	EXPENSES:	
6	For operation, maintenance and repairs.....	6,687,651.26
7	For interest on bonds, notes or scrip.....	
8	For depreciation fund (3 percent on \$ 9,011,624.79 as per page 8B).....	270,348.74
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	
12	For loss in preceding year.....	
13	Total	6,958,000.00
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.....	10,000.00
19	Of electricity to be used for street lights.....	32,000.00
20	Total of above items to be included in the tax levy.....	42,000.00
21		
22	New construction to be included in the tax levy.....	
23	Total amounts to be included in the tax levy.....	42,000.00

CUSTOMERS

Names of cities or towns in which the plant supplies GAS, with the number of customers' meters in each.

Names of cities or towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each

City or Town	Number of Customers' Meters, Dec. 31	City or Town	Number of Customers' Meters, Dec. 31
		Rowley	2,937
Total		Total	2,937

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	\$	<u>32,000.00</u>
2.	Municipal buildings.....	\$	<u>10,000.00</u>
3.			
TOTAL			<u>42,000.00</u>

*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:

BONDS

When Authorized*	Date of Issue	Amount of Original Issues †	(Issued on Account of Gas or Electric Lighting)		Interest When Payable	Amount Outstanding at End of Year
			Periods of Payments	When Payable		
			Amounts	Rate		
05-07-01	02-01-02	1,100,000.00				0.00
TOTAL						0.00

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.

TOWN NOTES
(ISSUED ON ACCOUNT OF GAS OR ELECTRIC LIGHTING.)

When Authorized*	Date of Issue	Amount of Original Issues †	Periods of Payments		Interest When Payable	Amount Outstanding at End of Year
			Amounts	When Payable		
03-14-10	03-17-10	12,000.00				
01-02-11	05-17-11	2,400.00				
10-21-11	11-11-11	600.00				
06-06-12	08-07-12	3,000.00				
08-28-16	12-27-16	1,200.00				
03-03-86	08-18-86	100,000.00				
03-03-86	07-07-87	800,000.00				
10-31-88	05-25-89	250,000.00				
05-15-98	05-15-98	90,000.00				
		TOTAL	1,259,200.00			0.00

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.

*Date of meeting and whether regular or special

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	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 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.....						

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.....	267,334.75					267,334.75	
3	361 Structures and Improvements.....	175,488.29					175,488.29	
4	362 Station Equipment.....	2,564,481.75	7,449.00				2,571,930.75	
5	363 Storage Battery Equipment.....							
6	364 Poles, Towers and Fixtures.....	1,096,780.91	31,575.67	1,034.22			1,127,322.36	
7	365 Overhead Conductors and Devices.....	1,084,013.68	64,177.85				1,148,191.53	
8	366 Underground Conduits.....	60,681.27	4,700.68				65,381.95	
9	367 Underground Conductors & Devices.....	217,149.26	9,891.68				227,040.94	
10	368 Line Transformers.....	613,744.46	50,650.30				664,394.76	
11	369 Services.....	251,823.11	7,295.93				259,119.04	
12	370 Meters.....	371,426.38	22,417.72	1,072.50			392,771.60	
13	371 Installation on Cust's Premises.....							
14	372 Leased Prop. on Cust's Premises.....	79,468.17	17,998.67				97,466.84	
15	373 Street Light and Signal Systems.....	296,692.87	15,155.98	3,209.12			308,639.73	
16	Total Distribution Plant.....	7,079,084.90	231,313.48	5,315.84			7,305,082.54	
17	5. GENERAL PLANT							
18	389 Land and Land Rights.....	15,000.00					15,000.00	
19	390 Structures and Improvements.....	420,275.44	31,800.00				452,075.44	
20	391 Office Furniture and Equipment.....	198,526.37	7,936.91				206,463.28	
21	392 Transportation Equipment.....	1,051,073.40	91.95				1,051,165.35	
22	393 Stores Equipment.....	1,852.56					1,852.56	
23	394 Tools, Shop & Garage Equipment.....	188,125.40	1,524.00				189,649.40	
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.....	1,947,524.14	41,352.86	0.00			1,988,877.00	
30	Total Electric Plant in Service.....	9,026,609.04	272,666.34	5,315.84			9,293,959.54	
31	Total cost of Electric Plant.....							
32	Less Cost of Land, Land Rights, Rights of Way.....							
33	Total cost upon which depreciation is based.....							282,334.75
34	Total cost of Land, Land Rights, Rights of Way.....							9,011,624.79

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.

9,011,624.79 X 3% = 270,348.74

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	UTILITY PLANT			
2	101 Utility Plant - Electric (P.17).....	4,232,719.05	4,275,922.56	43,203.51
3	101 Utility Plant - gas (P.20).....			
4				
5	Total Utility Plant.....	4,232,719.05	4,275,922.56	43,203.51
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds.....			
13	126 Depreciation Fund (P. 14).....	3,970,623.49	4,239,257.32	268,633.83
14	128 Other Special Funds.....	1,331,200.85	1,243,941.30	(87,259.55)
15	Total Funds.....	5,301,824.34	5,483,198.62	181,374.28
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P. 14).....	114,363.20	87,583.75	(26,779.45)
18	132 Special Deposits.....	109,550.00	108,890.00	(660.00)
19	132 Working Funds.....	600.00	690.00	90.00
20	141 Notes Receivable.....			
21	142 Customer Accounts Receivable.....	324,035.38	368,267.70	44,232.32
22	143 Other Accounts Receivable.....	40,635.32	61,591.92	20,956.60
23	146 Receivables from Municipality.....			
24	151 Materials and Supplies (P.14).....	72,487.44	79,047.86	6,560.42
25				
26	165 Prepayments.....	1,029,360.80	1,259,005.32	229,644.52
27	174 Miscellaneous Current Assets.....	1,962.80	1,946.14	(16.46)
28	Total Current and Accrued Assets.....	1,692,994.74	1,967,022.69	274,027.95
29	DEFERRED DEBITS			
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.....	11,227,538.13	11,726,143.87	498,605.74

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	APPROPRIATIONS			
2	201 Appropriations for Construction			
3	SURPLUS			
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...	0.00	0.00	0.00
7	208 Unappropriated Earned Surplus (P.12).....	4,973,493.34	4,545,953.57	(427,539.77)
8	Total Surplus	7,252,693.34	6,825,153.57	(427,539.77)
9	LONG TERM DEBT			
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	CURRENT AND ACCRUED LIABILITIES			
14	232 Accounts Payable.....	373,840.55	553,437.45	179,596.90
15	234 Payables to Municipality.....			
16	235 Customer's Deposits.....	109,550.00	108,890.00	(660.00)
17	236 Taxes Accrued.....	2,690.33	4,289.52	1,599.19
18	237 Accrued Expenses	2,112,502.87	2,856,179.85	743,676.98
19	242 Miscellaneous Current and Accrued Liabilities.	1,962.60	1,946.14	(16.46)
20	Total Current and Accrued Liabilities	2,600,546.35	3,524,742.96	924,196.61
21	DEFERRED CREDITS			
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	RESERVES			
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	CONTRIBUTIONS IN AID OF CONSTRUCTION			
34	271 Contributions in Aid of Construction.....	1,294,012.11	1,295,961.01	1,948.90
35	Total Liabilities and Other Credits	11,227,538.13	11,726,143.87	498,605.74

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: \$30,217.95

STATEMENT OF INCOME FOR THE YEAR			
Line No.	Account (a)	Total	
		Current Year (b)	Increase of (Decrease) from Preceding Year (c)
1	OPERATING INCOME		
2	400 Operating Revenue (P.37 and 43).....	7,076,977.20	867,686.27
3	Operating Expenses:		
4	401 Operation Expense (P.42 and 47).....	6,180,311.94	714,332.89
5	402 Maintenance Expense (P.42 and 47).....	345,200.04	33,257.74
6	403 Depreciation Expense.....	262,328.23	6,970.63
7	407 Amortization of Property Losses.....		
8			
9	408 Taxes (P.49).....		
10	Total Operating Expenses.....	6,787,840.21	754,561.26
11	Operating Income.....	289,136.99	133,125.01
12	414 Other Utility Operating Income (P.50).....		
13			
14	Total Operating Income.....	289,136.99	133,125.01
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing and Contract Work (P.51)		
17	419 Interest Income.....	39,427.74	(46,212.63)
18	421 Miscellaneous Nonoperating Income.....		
19	Total Other Income.....	39,427.74	(46,212.63)
20	Total Income.....	328,564.73	86,912.18
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Amortization.....		
23	426 Other Income Deductions.....		
24	Total Income Deductions.....		
25	Income Before Interest Charge.....	328,564.73	86,912.18
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes.....		
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	NET INCOME	328,564.73	86,912.18
EARNED SURPLUS			
Line No.	(a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period).....		4,973,493.34
35			
36			
37	433 Balance Transferred from Income.....		328,564.73
38	434 Miscellaneous Credits to Surplus.....		
39	435 Miscellaneous Debits to Surplus.....	725,886.55	
40	436 Appropriations of Surplus (P.21).....	30,217.95	
41	437 Surplus Applied to Depreciation.....		
42	208 Unappropriated Earned Surplus (at end of period).....	4,545,953.57	
43			
44	Totals	5,302,058.07	5,302,058.07

CASH BALANCES AT END OF YEAR (Account 131)			
Line No.	Items (a)	Amount (b)	
1	Operation Fund.....	87,583.75	
2	Interest Fund.....		
3	Bond Fund.....		
4	Construction Fund.....		
5	Rate stabilization fund.....	1,012,810.37	
6	Light Opeb Fund	231,130.93	
7			
8			
9			
10			
11			
12	TOTAL	1,331,525.05	
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).....	79,047.86	
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 \$	79,047.86	
DEPRECIATION FUND ACCOUNT (Account 138)			
Line No.	(a)	Amount (b)	
24	DEBITS		
25	Balance of account at beginning of year.....	3,970,623.49	
26	Income during year from balance on deposit.....	6,305.60	
27	Amount transferred from income.....	262,326.23	
28			
29	TOTAL	4,239,257.32	
30	CREDITS		
31	Amount expended for construction purposes (Sec. 57,C.164 of G.L.).....		
32	Amounts transferred to operating cash	0.00	
33			
34			
35			
36			
37			
38			
39	Balance on hand at end of year.....	4,239,257.32	
40	TOTAL	4,239,257.32	

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	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 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)
	4. DISTRIBUTION PLANT						
1	360 Land and Land Rights.....	267,334.75					267,334.75
2	361 Structures and Improvements.....	11,238.00		216.00			11,022.00
3	362 Station Equipment.....	721,239.01	7,449.00	82,038.84			646,649.17
4	363 Storage Battery Equipment.....						
5	364 Poles, Towers and Fixtures.....	633,532.02	54,239.07	32,903.40			654,867.69
6	365 Overhead Conductors and Devices.....	436,342.55	64,177.85	32,520.36			468,000.04
7	366 Underground Conduits.....	22,176.68	4,700.68	1,820.40			25,056.96
8	367 Underground Conductors & Devices.....	80,993.13	9,891.68	6,514.44			84,370.37
9	368 Line Transformers.....	298,868.87	50,650.30	18,412.32			331,106.85
10	369 Services.....	112,490.35	7,295.93	7,554.72			112,231.56
11	370 Meters.....	266,634.93	22,417.72	11,142.84			277,909.81
12	371 Installation on Cust's Premises.....						
13	372 Leased Prop. on Cust's Premises.....	44,762.79	17,998.67	2,384.04			60,377.42
14	373 Street Light and Signal Systems.....	190,378.44	15,155.98	8,900.76			196,633.66
15	Total Distribution Plant.....	3,085,991.52	253,976.88	204,408.12			3,135,560.28
	5. GENERAL PLANT						
16	389 Land and Land Rights.....	15,000.00					15,000.00
17	390 Structures and Improvements.....	113,918.11	31,800.00	12,608.28			133,109.83
18	391 Office Furniture and Equipment.....	80,643.11	7,936.91	5,955.84			82,624.18
19	392 Transportation Equipment.....	804,803.50	91.95	31,532.23			773,363.22
20	393 Stores Equipment.....	1,852.56					1,852.56
21	394 Tools, Shop & Garage Equipment.....	109,689.75	1,524.00	5,643.72			105,570.03
22	395 Laboratory Equipment.....						
23	396 Power Operated Equipment.....	30,312.57		1,673.76			28,638.81
24	397 Communication Equipment.....	709.93		506.28			203.65
25	398 Miscellaneous Equipment.....						
26	399 Other Tangible Property.....						
27	Total General Plant.....	1,156,929.53	41,352.86	57,920.11			1,140,362.28
28	Total Electric Plant in Service.....	4,242,921.05	295,329.74	262,328.23			4,275,922.56
29	104 Utility Plant Leased to Others.....						
30	105 Property Held for Future Use.....						
31	107 Construction Work in Progress.....						
32	Total Utility Plant Electric.....	4,242,921.05	295,329.74	262,328.23			4,275,922.56

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	30,217.95
35		
36		
37		
38		
39		
40	TOTAL	30,217.95

MUNICIPAL REVENUES (Account 482,444) (K.W.H. Sold under the provision of Chapter 269, Acts of 1927)						
Line NO.	Acc't No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue Per M.C.F. (\$0,000) (d)	
1	482					
2						
3						
4		TOTALS				
Electric Schedule						
		(a)	K.W.H. (b)	Revenue Received (c)	Average Revenue Per K.W.H. (cents) (0,000) (d)	
5	444	Municipal: (Other Than Street Lighting)	50,367	8,362.09	0.1660	
6						
7						
8						
9						
10						
11						
12		TOTALS	50,367	8,362.09	0.1660	
13						
14		Street Lighting:	210,936	30,217.95	0.1433	
15						
16						
17						
18		TOTALS	210,936	30,217.95	0.1433	
19		TOTALS	261,303	38,580.04	0.1476	
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) (0,000) (e)	
20		Daniels Road, Rowley 23,000 volts				
21						
22	ISO of Energy New England			5,555,924	2,961,924.33	0.5331
23	Miller Hydro			1,185,193	57,415.36	0.0484
24	PASNY			2,722,235	61,997.71	0.0228
25	Spruce Mountain Wind			1,326,287	127,871.55	0.0964
26	National Grid				346,858.09	
27	NextEra			19,719,700	745,553.90	0.0378
28	Sale to Granite and Fin. Stmt NextEra				(65,171.48)	
29	Central Street			348,122	23,672.35	
30	Shell Energy			13,299,300	605,118.15	0.0455
31	Saddleback Ridge			1,223,305	108,004.29	0.0883
32	Hydro Quebec Phase 1 & 2				9,996.14	
33			TOTALS	45,390,056	4,963,240.29	0.1098
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) (0,000) (e)	
34						
35						
36						
37						
38						
39						
40						
41						
42						
43		TOTALS				

ELECTRIC OPERATING REVENUES (Account 400)

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.

report below the amount off operating revenue for it for each prescribed account and the amount of increase or decrease over the preceding year. Increases and decreases are not derived from monthly reported figures explain any inconsistencies. Number of customers should be reported on the number of meters, plus number of flat rate items, except that where separate meter readings are

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)
SALES OF ELECTRICITY						
440 Residential Sales	3,698,968.57	298,837.74	21,423,062	(161,973)	2,487	4
442 Commercial and Industrial Sales:						
Small (or Commercial) see instr. 5	334,317.03	(1,493.70)	3,758,080	130,720	224	0
Large (or Industrial) see instr. 5	2,816,429.84	418,821.89	15,806,085	522,556	190	6
444 Municipal Sales (Page 22)	38,580.04	(4,893.09)	261,303	(20,382)	10	1
445 Other Sales: Private Area Lighting	52,912.60	2,838.36	221,516	(16,696)	100	1
446 Sales to Railroads and Railways						
448 Interdepartmental Sales						
449 Miscellaneous Sales						
Total Sales to Ultimate Consumers	6,841,208.08	715,111.20	41,470,046	454,225	3,021	12
447 Sales for Resale						
Total Sales of Electricity*	6,841,208.08	715,111.20	41,470,046	454,225	3,021	12
OTHER OPERATING REVENUES						
450 Forfeited Discounts						
451 Miscellaneous Service Revenues						
453 Sales of Water and Water Power	0.00	0.00				
454 Rent from Electric Property						
455 Interdepartmental Rents						
456 Other Electric Revenues	235,769.12	172,575.07				
Total Other Operating Revenues	235,769.12	172,575.07				
Total Electric Operating Revenue	7,076,977.20	887,686.27				
*Includes revenues from application of fuel clauses \$2,667,484.21						
Total KWH to which applied.....37,504,495						

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	21,423,062	3,598,968.57	16.7995	2,497	2,507
3	442	Rate - B	3,758,080	334,317.03	8.8960	224	231
4	442.1	Rate - C	15,806,085	2,816,429.84	17.8186	190	187
5	444	Municipal	50,367	8,362.09	16.6023	10	11
6	444.1	St. Lights Municipal	210,936	30,217.95	14.3256	1	1
7	445.1	Private Area Lights	221,516	52,912.60	23.8866	100	102
8							
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48							
49	TOTAL SALES TO ULTIMATE CONSUMERS (Page 37 line 11)		41,470,046	6,841,208.08	16.4967	3,022	3,039

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 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	OTHER POWER GENERATION		
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	OTHER POWER SUPPLY EXPENSES		
26	555 Purchased power.....	4,983,240.29	714,298.46
27	556 System control and load dispatching		
28	557 Other expenses.....	(8,379.43)	(83,717.22)
29	Total other power supply expenses.....	4,974,860.86	630,581.24
30	Total power production expenses.....	4,974,860.86	630,581.24
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.....		
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)
DISTRIBUTION EXPENSES			
1	Operation:		
2	580 Operation supervision and engineering.....		
3	581 Load dispatching.....		
4	582 Station expenses.....	0.00	0.00
5	583 Overhead line expenses.....	145,729.25	3,319.90
6	584 Underground line expenses.....		
7	585 Street lighting and signal system expenses.....		
8	586 Meter expenses.....	10,072.56	2,157.20
9	587 Customer installations expenses.....	3,787.85	(535.52)
10	588 Miscellaneous distribution expenses.....	73,121.81	21,647.95
11	589 Rents.....		
12	Total operation.....	232,711.47	26,589.53
13	Maintenance:		
14	590 Maintenance supervision and engineering.....	64,228.94	(4,307.14)
15	591 Maintenance of structures.....	610.75	568.72
16	592 Maintenance of station equipment.....	12,942.59	(6,450.08)
17	593 Maintenance of overhead lines.....	237,828.63	48,079.07
18	594 Maintenance of underground lines.....	11,160.70	(6,277.80)
19	595 Maintenance of line transformers.....	1,156.32	(2,040.21)
20	596 Maintenance of street lighting and signal systems.....	13,550.92	3,175.97
21	597 Maintenance of meters.....	0.00	0.00
22	598 Maintenance of miscellaneous distribution plant.....	0.00	0.00
23	Total maintenance.....	341,478.85	32,748.53
24	Total distribution expenses.....	574,190.32	59,338.06
25			
CUSTOMER ACCOUNTS EXPENSES			
26	Operation:		
27	901 Supervision.....		
28	902 Meter reading expenses.....	4,497.24	(532.76)
29	903 Customer records and collection expenses.....	117,479.80	23,156.81
30	904 Uncollectable accounts.....	954.96	(4,290.48)
31	906 Conservation/efficiency.....	7,827.00	2,480.68
32	Total customer accounts expenses.....	130,759.00	20,814.25
33			
SALES EXPENSES			
34	Operation:		
35	911 Supervision.....		
36	912 Demonstrating and selling expenses.....		
37	913 Advertising expenses.....	216.20	(2,170.01)
38	916 Miscellaneous sales expenses.....		
39	Total sales expenses.....	216.20	(2,170.01)
40			
ADMINISTRATIVE AND GENERAL EXPENSES			
41	Operation:		
42	920 Administrative and general salaries.....	206,414.04	2,876.36
43	921 Office supplies and expenses.....	34,951.91	79.67
44	922 Administrative expenses transferred - Cr.....		
45	923 Outside services employed.....	204,288.69	63,112.41
46	924 Property insurance.....	19,476.02	(287.98)
47	925 Injuries and damages.....	9,589.87	1,850.43
48	926 Employee pensions and benefits.....	292,400.67	981.27
49	928 Regulatory commission expenses.....		
50	929 Duplicate charges - Cr.....		
51	930 Miscellaneous general expenses.....	28,845.45	2,026.67
52	931 Rents.....		
53	Total operation.....	795,946.65	70,638.83
54			

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	ADMINISTRATIVE AND GENERAL EXPENSES--Cont.	\$	\$
2	Maintenance:		
3	932 Maintenance of general plant.....	3,701.30	489.32
4	933 Transportation expense.....	41,944.58	(2,890.33)
5	Total administrative and general expenses	841,592.53	68,237.82
	Total Electric Operation and Maintenance Expenses.....	6,521,618.91	429,246.77

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.....	4,974,860.86		4,974,860.86
13	Total power production expenses.....	4,974,860.86		4,974,860.86
14	Transmission Expenses			
15	Distribution Expenses.....	232,711.47	341,478.85	574,190.32
16	Customer Accounts Expenses.....	130,759.00		130,759.00
17	Sales Expenses.....	216.20		216.20
18	Administrative and General Expenses.....	795,946.65	45,645.88	841,592.53
19	Total Electric Operation and			
20	Maintenance Expenses.....	6,134,494.18	387,124.73	6,521,618.91

21	Ratio of operating expenses to operating revenues (carry out decimal two places, e.g.:0.00%)	95.86%
	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.....	\$933,701.45
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)
SOURCES OF ENERGY		
1	Generation (excluding station use):	
2	Steam.....	
3	Nuclear.....	
4	Hydro.....	
5	Other.....	
6	Total Generation.....	
7	Purchases.....	45,380,066
8	In (gross).....	*****
9	Out (gross).....	*****
10	Net (kWh).....	
11	Received.....	*****
12	Delivered.....	*****
13	Net (kWh).....	
14	TOTAL.....	45,380,066
DISPOSITION OF ENERGY		
15	Sales to ultimate consumers(including interdepartmental sales).....	41,259,110
16	Sales for resale.....	
17	Energy furnished without charge.....	
18	Energy used by the company(excluding station use):.....	
19	Electric Department only.....	195,309
20	Energy losses:	
21	Transmission and conversion losses.....	1570258.8
22	Distribution losses.....	
23	Unaccounted for losses.....	2355388.2
24	Total energy losses.....	3925647
25	Energy losses as percent of total on line 15.....	8.65%
26	Unaccounted Losses:.....	5.19%
27	TOTAL.....	45,380,066

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.....	7,549	Monday	1/9	1800-1900	60 MIN	3,911,650
30	February.....	7,001	Thursday	2/9	1900-2000	60 MIN	3,445,077
31	March.....	6,956	Tuesday	3/14	1300-1200	80 MIN	3,789,708
32	April.....	6,209	Saturday	4/1	1200-1300	60 MIN	3,254,581
33	May.....	9,241	Thursday	5/18	1500-1800	60 MIN	3,387,465
34	June.....	11,105	Tuesday	6/13	1600-1700	60 MIN	4,052,554
35	July.....	10,303	Thursday	7/20	1600-1700	60 MIN	4,362,379
36	August.....	10,087	Tuesday	8/22	1700-1800	60 MIN	4,238,118
37	September.....	8,752	Wednesday	9/27	1700-1800	60 MIN	3,613,392
38	October.....	6,630	Monday	10/9	1900-2000	60 MIN	3,365,804
39	November.....	7,006	Tuesday	11/28	1800-1900	60 MIN	3,598,790
40	December.....	8,379	Thursday	12/28	1800-1900	60 MIN	4,350,548
41	TOTAL.....						45,380,066

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 (c), (d), and (e) 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 Transformers in Service (g)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment		Total Capacity (k)
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number of Units (j)	
1	Power House Road, Rowley	DISTRIBUTION UNATTENDED	23,000	13,200		7,500 15,500	2 1	0	NONE NONE		
2											
3											
4											
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31											
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.....	0.23		0.23
3	Retired During Year.....	-0.17		-0.17
4	Miles-End of Year.....	49.17		49.17
5				
6				
7				
8	Distribution System Characteristics--A.C. or D.C., phase, cycles and operating voltages for Light and Power.			
9				
10	3 Phase 4 Wire 2400/4160 Y 60 H2 AC to			
11	120/240 1 Phase 3 Wire			
12	240 3 Phase 3 Wire			
13	480 3 Phase 3 Wire			
14	120/240 3 Phase 4 Wire			
15	277/480 3 Phase 4 Wire			

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	2,380	3,066	734	26,750.0
17	Additions During the Year:				
18	Purchased.....	*****	52	34	1,105.0
19	Installed.....	14	*****	*****	*****
20	Associated with Utility Plant Acquired.		8		
21	Total Addition	14	60	34	1,105.0
22	Reductions During the Year:				
23	Retirements.....	7	8		
24	Associated with Utility Plant Sold..				
25	Total Reductions.....	7	8	0	0.0
26	Number at End of Year.....	2,387	3,118	768	27,855.0
27	In Stock.....		183	110	5,402.0
28	Locked Meters on Customers' Premis.....				
29	Inactive Transformers on System.....			3	45.0
30	In Customers' Use.....		2,920	650	22,256.0
31	In Company's Use.....		15	5	152.0
32	Number at End of Year.....		3,118	768	27,855.0

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)	Underground Cable			Submarine Cable	
		Miles of Conduit Bank (All sizes & types) (b)	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		
13	P32-1 Wethersfield to S-1 Saunders Lane	(2) .20	(2) 0.986	7.620KV		
14	Pole 7-1 to T-2 Dodge Road	(2) .20	(2) 0.103	7.620KV		
15						
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34						
TOTALS		5.466	12.603			

*Indicate number of conductors per cable

STREET LAMPS CONNECTED TO SYSTEM										
Line No.	City or Town (a)	Total (b)	Type							
			LED		Mercury Vapor		Metal Halide		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	ROWLEY	877	257	138	1	61	2	20	353	45
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50										
51										
52	TOTALS	877	257	138	1	61	2	20	353	45

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
<p>COPIES OF RATES ATTACHED</p>				

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

Mayor

Paul J. Kelly

Manager of Electric Light

Samuel Hayes

Robert J. ...

G. Robert Murray

Selectmen
or
Members
of the
Municipal
Light
Board

SIGNATURES OF ABOVE PARTIES AFFIXED OUTSIDE THE COMMONWEALTH OF MASSACHUSETTS MUST BE PROPERLY SWORN TO

_____ ss _____ 2017

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



TOWN OF ROWLEY
Municipal Lighting Plant
47 SUMMER ST, P.O. BOX 355
ROWLEY, MASS. 01969
[978]-948-3992

Purchased Power Adjustment

MDTE No. 45
Effective January 1, 2006

Applicability

The Purchased Power Adjustment shall be applied to all kilowatt-hours sold.

Monthly Rate

The Purchased Power Adjustment shall be calculated quarterly using forecasts of costs and billing data for the quarter to which the charge is to be applied, with a reconciling adjustment for actual cost and billing data from the most recently completed calendar quarter for which final data is available. The Purchase Power Adjustment shall equal:

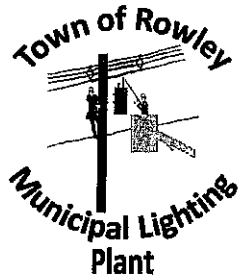
$$[(PC + NS) / KWH]$$

Where:

PC = The total cost of purchased power recorded to accounts 555, 556, and 557 for the quarter;

NS = The NYPA hydropower savings $[(AC - (NC/NK) * NK]$ calculated according to the Lighting Plant's NYPA Hydropower Credit tariff, MDTE No. 46.

KWH = The forecast kilowatt-hours to be sold to which the Purchased Power Adjustment will be applied.



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NYPA Hydropower Credit

MDTE No. 46
Effective January 1, 2006

Applicability

The NYPA credit shall be applied to all kilowatt-hours sold under the Lighting Plant's Residential Schedule A.

Monthly Rate

Residential customers will receive a credit equal to the number of kilowatt-hours billed during the period multiplied by the NYPA Hydropower Credit Rate determined as follows:

$$[(AC - (NC/NK) * NK) / RK]$$

Where:

AC = is the Lighting Plant's avoided cost of power for the period at the time of calculation;

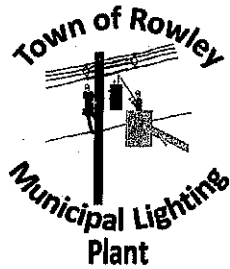
NC = is the forecast total cost of hydropower from the New York Power Authority for the period;

NK = is the forecast total kilowatt-hours of power purchased from the New York Power Authority for the period;

RK = is the estimated number of residential kilowatt-hours to which the NYPA Hydro Credit will be applied for the period.

This calculation will normally be made on a quarterly basis and a single NYPA Hydropower Credit billed for the entire quarter, although the Lighting Plant may change the NYPA Hydropower Credit more frequently if such a change is required.

Adjustments shall be made to reflect differences between estimated and actual hydropower cost and residential KWH sold in the prior period in order to recover or credit any under collection or over collection of hydropower savings.



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Schedule A Residential Rate

MDPU No. 47
Cancels MDTE No. 42

Availability

Electricity is available under this schedule for all domestic purposes in a private dwelling or apartment and for municipal customers at the discretion of the Lighting Plant. This schedule is not available for resale.

Rate

Distribution Charge:	\$0.1041 per KWH for all domestic purposes
Distribution Charge Farm:	\$0.0937 per KWH for farm usage
Purchase Power Adjustment:	per MTDE No. 45
Customer Charge:	\$4.00 per month

Farm Discount

Customers who meet the eligibility requirements for being engaged in the business of agriculture or farming as defined in M.G.L. Chapter 128 Section 1:a at their service location are eligible for an additional discount from their distribution service rates as set forth above.

Billing

A discount of one cent (\$0.01) per KWH will be applied if paid on or before the last day of the month in which the bill is rendered. No discount will be allowed where arrears are due.

Any bill for which valid payment has not been received within 45 days from the date rendered shall be considered past due.

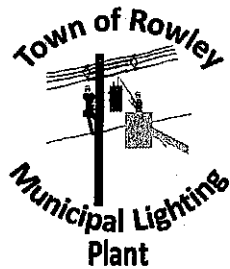
NYPA Hydro Power Adjustment Clause

Residential customers will receive a credit applied to all kilowatt-hours billed in each month as provided in the Lighting Plant's NYPA Hydropower Credit Clause, MDTE No. 46.

Operational Policy

The Lighting Plant's Operational Policy in effect from time to time, where not inconsistent with any specific provisions hereof, are part of this schedule.

Effective: March 1, 2015



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Schedule B Small General Service Rate

MDPU No. 48
Cancels MDPU No. 43

Availability

Electricity is available under this schedule for all non-domestic purposes where the Lighting Plant has determined that the customers maximum monthly demand has not exceeded 10 KW at any time during the preceding 12 months. All electricity furnished will be through one service and one meter. This schedule is not available for resale.

Rate

Distribution Charge:	\$0.1014 per KWH for non-farm usage
Distribution Rate Farm	\$0.0937 per KWH for farm usage
Purchase Power Adjustment:	per MTDE No. 45
Customer Charge:	\$10.00 per month

Farm Discount

Customers who meet the eligibility requirements for being engaged in the business of agriculture or farming as defined in M.G.L. Chapter 128 Section 1:a at their service location are eligible for an additional discount from their distribution service rates as set forth above.

Billing

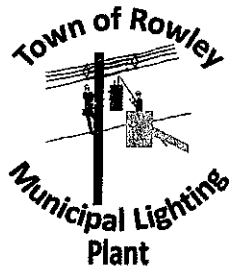
A discount of one cent (\$0.01) per KWH will be applied if paid on or before the last day of the month in which the bill is rendered. No discount will be allowed where arrears are due.

Any bill for which valid payment has not been received within 45 days from the date rendered shall be considered past due.

Operational Policy

The Lighting Plant's Operational Policy in effect from time to time, where not inconsistent with any specific provisions hereof, are part of this schedule.

Effective: March 1, 2015



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Schedule C Medium General Service Rate

MDPU No. 49

Availability

Electricity is available under this schedule for all non-domestic purposes where the Lighting Plant has determined that the customer's maximum monthly demand has exceeded 10 KW and was below 200 KW at any time during the preceding 12 months. All electricity furnished will be through one service and one meter unless the installation of multiple metering is for the Lighting Plants convenience. This schedule is not available for resale or for auxiliary service.

Rate

The cost of electricity under this schedule will include both the following Demand and Purchased Power Adjustments:

Distribution Charge:	\$0.084 per KWH
Demand Charge:	\$3.40 per KW
Purchased Power Adjustment:	per MDTE No 45
Customer Charge:	\$15.00 per month

Billing

A discount of one cent (\$0.01) per KWH will be applied if paid on or before the last day of the month in which the bill is rendered. No discount will be allowed where arrears are due.

Any bill for which valid payment has not been received within 45 days from the date rendered shall be considered past due and bear interest on any unpaid balance, including any outstanding interest charges, at a rate 1.5% per month from the date that the bill was considered past due.

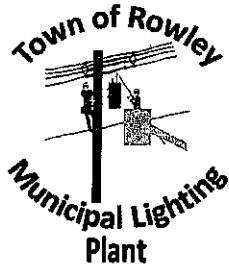
Terms of Contract

Service is supplied hereunder with an initial term of twelve (12) months and shall continue thereafter until terminated by 30 days prior notice.

Operational Policy

The Lighting Plant's Operational Policy in effect from time to time, where not inconsistent with any specific provisions hereof, are part of this schedule.

Effective: March 1, 2015



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Schedule D Large General Service Rate

MDPU No. 50
Cancels MDTE No.44

Availability

Electricity is available under this schedule for all non-domestic purposes where the Lighting Plant has determined that the customer's maximum monthly demand has exceeded 200 KW at any time during the preceding 12 months. All electricity furnished will be through one service and one meter unless the installation of multiple metering is for the Lighting Plants convenience. This schedule is not available for resale or for auxiliary service.

Rate

The cost of electricity under this schedule will include both the following Demand and Purchased Power Adjustments:

Distribution Charge:	\$0.0757 per KWH
Demand Charge:	\$4.71 per KW
Purchased Power Adjustment:	per MDTE No 45
Customer Charge:	\$50.00 per month

Billing

A discount of one cent (\$0.01) per KWH will be applied if paid on or before the last day of the month in which the bill is rendered. No discount will be allowed where arrears are due.

Any bill for which valid payment has not been received within 45 days from the date rendered shall be considered past due and bear interest on any unpaid balance, including any outstanding interest charges, at a rate 1.5% per month from the date that the bill was considered past due.

Terms of Contract

Service is supplied hereunder with an initial term of twelve (12) months and shall continue thereafter until terminated by 30 days prior notice.

Operational Policy

The Lighting Plant's Operational Policy in effect from time to time, where not inconsistent with any specific provisions hereof, are part of this schedule.

Effective: March 1, 2015