

**The Commonwealth of Massachusetts**

**Return**

**of the**

**Municipal Light Department of**

**the Town of  
NORWOOD**

**to the**

**Department of Public Utilities**

**of Massachusetts**

**For the Year ended December 31,**

**2018**

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

Official title:

Office address:

**Tony Mazucco**

**Town Manager**

**Municipal Building**

**Norwood, MA 02062**

GOULET, SALVIDIO  
& ASSOCIATES, P.C.  
CERTIFIED PUBLIC ACCOUNTANTS

To the Board of Commissioners  
Norwood Municipal Light Department  
Norwood, Massachusetts 02062

Management is responsible for the accompanying financial statements of Norwood Municipal Light Department, which comprise the balance sheet as of December 31, 2018, and the related statements of income and unappropriated retained earnings for the year then ended, included in the accompanying prescribed form in accordance with accounting principles generally accepted in the United States of America. We have performed a compilation engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. We did not audit or review the financial statements included in the accompanying prescribed form nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by management. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on these financial statements in the accompanying prescribed form.

The financial statements included in the accompanying prescribed form are presented in accordance with the requirements of the Massachusetts Department of Public Utilities, and are not intended to be a presentation in accordance with accounting principles generally accepted in the United States of America.

Goulet, Salvidio & Associates P.C.

*Goulet, Salvidio & Associates, P.C.*

Worcester, Massachusetts  
April 25, 2019

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## FOR GAS PLANTS ONLY:

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PAGES INTENTIONALLY OMITTED : 9, 13, 23 TO 36, 80

## GENERAL INFORMATION

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1.	Name of town (or city) making report.	Norwood
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, 154; No, 19 Second vote: Yes, 146; No, 5 Date when town (or city) began to sell gas and electricity,	Electric   September 1, 1907
3.	Name and address of manager of municipal lighting:	Tony Mazzucco 432 Nahatan Street Norwood, MA
4.	Name and address of mayor or selectmen:	Thomas F. Maloney Norwood William J. Plasko Norwood David E. Hajjar Norwood Allan D. Howard Norwood Paul A. Bishop Norwood
5.	Name and address of town (or city) treasurer:	Mark Good 47 Maple Street Norfolk, MA
6.	Name and address of town (or city) clerk:	Thomas McQuaid 140 Railroad Ave Norwood, MA
7.	Names and addresses of members of municipal light board:	Thomas F. Maloney Norwood William J. Plasko Norwood David E. Hajjar Norwood Allan D. Howard Norwood Paul A. Bishop Norwood
8.	Total valuation of estates in town (or city) according to last State valuation (taxable)	\$ 5,311,229,730
9.	Tax rate for all purposes during the year:	Residential \$10.89 Commercial/Industrial/Personal Property \$22.82
10.	Amount of manager's salary:	\$179,172
11.	Amount of manager's bond:	None
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
<b>INCOME FROM PRIVATE CONSUMERS:</b>		
1	From sales of gas	0
2	From sales of electricity	58,250,000
3	<b>TOTAL</b>	58,250,000
4		
<b>EXPENSES</b>		
6	For operation, maintenance and repairs	47,500,000
7	For interest on bonds, notes or scrip	
8	For depreciation fund ( 3.00% 87,721,376 as per page 8B)	2,631,641
9	For sinking fund requirements	
10	For note payments	
11	For bond payments	
12	For loss in preceding year	
13	<b>TOTAL</b>	50,131,641
14		
<b>COST:</b>		
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	838,047
19	Of electricity to be used for street lights	195,097
20	Total of above items to be included in the tax levy	1,033,144
21		
22	New construction to be included in the tax levy	
23	Total amounts to be included in the tax levy	1,033,144

**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
		Norwood	15,880
<b>TOTAL</b>	0	<b>TOTAL</b>	15,880

**APPROPRIATIONS SINCE BEGINNING OF YEAR**

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

**FOR CONSTRUCTION OR PURCHASE OF PLANT**

\*At meeting , to be paid from \*\*

\*At meeting , to be paid from \*\*

TOTAL 0

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

1. Street lights 195,097

2. Municipal buildings 838,047

3.

TOTAL 1,033,144

\* Date of meeting and whether regular or special

\*\* Here insert bonds, notes or tax levy

**CHANGES IN THE PROPERTY**

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

**In electric property:**

**In gas property:** Not applicable

Bonds (Issued on Account of Gas or Electric Lighting.)							
When Authorized*	Date of Issue	Amount of Original Issue **	Period of Payments		Rate	Interest When Payable	Amount Outstanding at End of Year
			Amounts	When Payable			
Apr-69	Apr-69	2,300,000					
	Jul-70	1,098,000					
May-00	Jan-01	12,560,000	630,000	January 15th	Variable	Jan 15th & July 15th	1,793,900
2007	Jan-08	53,000,000	3,625,000	January 15th	Variable	Jan 15th & July 15th	17,448,000
2008	8/15/2009	18,000,000	900,000	August 15th	Variable	Feb & Aug 15th	9,900,000
2007	8/15/2009	20,000,000	1,335,000	August 15th	Variable	Feb & Aug 15th	7,623,000
2009	10/15/2009	4,500,000	300,000	October 15th	Variable	April & October 15th	1,800,000
2016	7/28/2016	6,000,000	320,000	July 15th	Variable	January & July	5,360,000
	TOTAL	117,458,000				TOTAL	43,924,900

The bonds and notes outstanding at end of year should agree with the Balance Sheet.

When bond and notes are repaid report the first three columns only

\* Date of meeting and whether regular or special

\*\* List original issues of bonds and notes including those that have been repaid

**Town Notes**  
(Issued on Account of Gas or Electric Lighting.)

When Authorized*	Date of Issue	Amount of Original Issue **	Period of Payments		Rate	Interest When Payable	Amount Outstanding at End of Year
			Amounts	When Payable			
TOTAL							0

The bonds and notes outstanding at end of year should agree with the Balance Sheet.

When bond and notes are repaid report the first three columns only

\* Date of meeting and whether regular or special

\*\* List original issues of bonds and notes including those that have been repaid



<b>TOTAL COST OF PLANT - ELECTRIC</b>							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2							
3							
4		0	0	0	0	0	0
5							
6	2. PRODUCTION PLANT						
7	A. Steam Production						
8	310 Land and Land Rights						
9	311 Structures and Improvements						
10	312 Boiler Plant Equipment						
11	313 Engines and Engine Driven Generators						
12	314 Turbogenerator Units						
13	315 Accessory Electric Equipment						
14	316 Miscellaneous Power Plant Equipment						
15	Total Steam Production Plant	0	0	0	0	0	0
16	B. Nuclear Production Plant						
17	320 Land and Land Rights						
18	321 Structures and Improvements						
19	322 Reactor Plant Equipment						
20	323 Turbogenerator Units						
21	324 Accessory Electric Equipment						
22	325 Miscellaneous Power Plant Equipment						
	Total Nuclear Production Plant	0	0	0	0	0	0

1. Report below the cost of utility plant in service according to prescribed accounts

2. Do not include as adjustments, corrections of additions and retirements for the current or the preceding year. Such items should be included in column (c) or (d) as appropriate.

3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative effect of such amounts.

4. Reclassifications or transfers within utility plant accounts should be shown in column (f).

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	0	0	0	0	0	0
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	0	0	0	0	0	0
19	Total Production Plant	0	0	0	0	0	0
20	3. Transmission Plant						
21	350 Land and Land Rights	841,112	-	-	-	-	841,112
22	351 Clearing Land and Rights of Way	415,000	-	-	-	-	415,000
23	352 Structures and Improvements	6,466,868	-	-	-	-	6,466,868
24	353 Station Equipment	13,141,215	-	-	-	-	13,141,215
25	354 Towers and Fixtures	-	-	-	-	-	-
26	355 Poles and Fixtures	3,669,954	-	-	-	-	3,669,954
27	356 Overhead Conductors and Devices	2,984,919	48,884	-	-	-	3,033,803
28	357 Underground Conduit	2,209,943	-	-	-	-	2,209,943
29	358 Underground Conductors and Devices	2,379,160	-	-	-	-	2,379,160
30	359 Roads and Trails	-	-	-	-	-	-
31	Total Transmission Plant	32,108,171	48,884	0	0	0	32,157,055

**TOTAL COST OF PLANT (Concluded)**

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	31,398	-	-			31,398
3	361 Structures and Improvements	3,422,777	382,955	-			3,805,732
4	362 Station Equipment	8,366,617	27,968	-			8,394,585
5	363 Storage Battery Equipment	-	-	-			-
6	364 Poles Towers and Fixtures	2,978,889	25,598	(8,400)			2,996,087
7	365 Overhead Conductors and Devices	5,869,083	222,594	(38,300)			6,053,377
8	366 Underground Conduit	11,556,327	-	-			11,556,327
9	367 Underground Conductors and Devices	4,657,183	51,992	(8,650)			4,700,525
10	368 Line Transformers	4,761,293	29,414	-			4,790,707
11	369 Services	1,185,626	-	(7,300)			1,178,326
12	370 Meters	4,771,249	136,399	(181,500)			4,726,148
13	371 Installations on Customer's Premises	-	-	-			-
14	372 Leased Prop on Customer's Premises	-	-	-			-
15	373 Streetlight and Signal Systems	-	241,270	-			241,270
16	Total Distribution Plant	48,262,424	1,118,190	(244,150)	0	0	49,136,464
17	5. GENERAL PLANT						
18	389 Land and Land Rights	625,000	-	-			625,000
19	390 Structures and Improvements	2,031,734	-	-			2,031,734
20	391 Office Furniture and Equipment	636,339	-	-			636,339
21	392 Transportation Equipment	2,989,831	36,486	-			3,026,317
22	393 Stores Equipment	-	-	-			-
23	394 Tools, Shop and Garage Equipment	78,780	189	-			78,969
24	395 Laboratory Equipment	46,395	-	-			46,395
25	396 Power Operated Equipment	-	-	-			-
26	397 Communication Equipment	1,456,543	2,471	-			1,459,014
27	398 Miscellaneous Equipment	21,599	-	-			21,599
28	399 Other Tangible Property	-	-	-			-
29	Total General Plant	7,886,221	39,146	0	0	0	7,925,367
30	Total Electric Plant in Service	88,256,816	1,206,220	(244,150)	0	0	89,218,886
31					Total Cost of Electric Plant.....		89,218,886
33					Less Cost of Land, Land Rights, Rights of Way.....		1,497,510
34					Total Cost upon which Depreciation is based .....		87,721,376

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 value, should be taken as a basis for figuring depreciation.

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<b>COMPARATIVE BALANCE SHEET Assets and Other Debits</b>					
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)	39,197,034	37,800,476	(1,396,558)
3	101	Utility Plant - Gas (P. 20)			0
4					
5		Total Utility Plant	39,197,034	37,800,476	(1,396,558)
6					
7					
8					
9					
10					
11		<b>FUND ACCOUNTS</b>			
12	125	Sinking Funds	0	0	0
13	126	Depreciation Fund (P. 14)	4,677,107	5,424,235	747,128
14	128	Other Special Funds	9,222,248	10,084,331	862,083
15		Total Funds	13,899,355	15,508,566	1,609,211
16		<b>CURRENT AND ACCRUED ASSETS</b>			
17	131	Cash (P. 14)	0	0	0
18	132	Special Deposits	651,808	585,605	(66,203)
19	135	Working Funds	0	0	0
20	141	Notes Receivable	0	0	0
21	142	Customer Accounts Receivable	2,479,906	2,005,642	(474,264)
22	143	Other Accounts Receivable	0	0	0
23	145	Receivables from Municipality	181,283	0	0
24	146	Receivables from Broadband	28,002	0	(28,002)
25					
26	165	Prepayments	3,355,229	3,180,035	(175,194)
27	173	Accrued Utility Revenues	2,167,325	2,628,808	461,483
28		Total Current and Accrued Assets	8,863,553	8,400,090	(282,180)
29		<b>DEFERRED DEBITS</b>			
30	181	Unamortized Debt Discount	0	0	0
31	182	Extraordinary Property Losses	0	0	0
32	185	Other Deferred Debits	781,311	546,343	(234,968)
33		Total Deferred Debits	781,311	546,343	(234,968)
34					
35		Total Assets and Other Debits	62,741,253	62,255,475	(485,778)

<b>COMPARATIVE BALANCE SHEET Liabilities and Other Credits</b>					
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	0	0	0
3		<b>SURPLUS</b>			
4	205	Sinking Fund Reserves			0
5	206	Loans Repayment	63,726,808	74,920,808	11,194,000
6	207	Appropriations for Construction Repayments	2,849,896	2,849,896	0
7	208	Unappropriated Earned Surplus (P. 12)	(82,903,613)	(83,405,236)	(501,623)
8		Total Surplus	(16,326,909)	(5,634,532)	10,692,377
9		<b>LONG TERM DEBT</b>			
10	221	Bonds (P. 6)	55,118,900	43,924,900	(11,194,000)
11	231	Notes Payable (P. 7)	0	0	0
12		Total Bonds and Notes	55,118,900	43,924,900	(11,194,000)
13		<b>CURRENT AND ACCRUED LIABILITIES</b>			
14	232	Accounts Payable	2,704,430	2,957,841	253,411
15	234	Payables to Municipality	378,444	0	(378,444)
16	235	Customers' Deposits	651,808	585,605	(66,203)
17	236	Taxes Accrued	0	0	0
18	237	Interest Accrued	1,241,863	1,089,669	(152,194)
19	242	Miscellaneous Current and Accrued Liabilities	112,324	132,809	20,485
20		Total Current and Accrued Liabilities	5,088,869	4,765,924	(322,945)
21		<b>DEFERRED CREDITS</b>			
22	251	Unamortized Premium on Debt	66,378	0	(66,378)
23	252	Customer Advances for Construction	0	0	0
24	253	Other Deferred Credits	11,945	719,273	707,328
25		Total Deferred Credits	78,323	719,273	640,950
26		<b>RESERVES</b>			
27	260	Reserves for Uncollectible Accounts	484,685	484,685	0
28	261	Property Insurance Reserve	0	0	0
29	262	Injuries and Damages Reserves	0	0	0
30	263	Pensions and Benefits Reserves	9,696,370	8,912,671	(783,699)
31	265	Miscellaneous Operating Reserves	8,400,897	8,888,625	487,728
32		Total Reserves	18,581,952	18,285,981	(295,971)
33		<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>			
34	271	Contributions in Aid of Construction	200,118	193,929	(6,189)
35		Total Liabilities and Other Credits	62,741,253	62,255,475	(485,778)

State below if any earning 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.

<b>STATEMENT OF INCOME FOR THE YEAR</b>			
Line No.	Account (a)	Current Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>OPERATING INCOME</b>		
2	400 Operating Revenues (P. 37 and 43)	59,023,305	7,358,472
3	Operating Expenses:		
4	401 Operation Expense (p. 42 and 47)	38,616,113	5,076,076
5	402 Maintenance Expense	2,006,234	461,433
6	403 Depreciation Expense	2,602,778	30,153
7	407 Amortization of Property Losses	0	0
8			
9	408 Taxes (P. 49)	0	0
10	Total Operating Expenses	43,225,125	5,567,662
11	Operating Income	15,798,180	1,790,810
12	414 Other Utility Operating Income (P. 50)	0	0
13			
14	Total Operating Income	15,798,180	1,790,810
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	0	0
17	419 Interest Income	12,952	(222,818)
18	421 Miscellaneous Nonoperating Income (P. 21)	156,508	156,508
19	Total Other Income	169,460	(66,310)
20	Total Income	15,967,640	1,724,500
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization	(6,189)	0
23	426 Other Income Deductions	0	0
24	Total Income Deductions	(6,189)	0
25	Income Before Interest Charges	15,973,829	1,724,500
26	<b>INTEREST CHARGES</b>		
27	427 Interest on Bonds and Notes	1,873,866	(303,525)
28	428 Amortization of Debt Discount and Expense	0	0
29	429 Amortization of Premium on Debt - Credit	0	0
30	431 Other Interest Expense	0	0
31	432 Interest: Charged to Construction - Credit	0	0
32	Total Interest Charges	1,873,866	(303,525)
33	<b>NET INCOME</b>	14,099,963	2,028,025
<b>EARNED SURPLUS</b>			
Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period)	82,903,613	
35			
36			
37	433 Balance Transferred from Income		14,099,963
38	434 Miscellaneous Credits to Surplus (P. 21)		0
39	435 Miscellaneous Debits to Surplus (P. 21)	3,407,586	
40	436 Appropriations of Surplus (P. 21)	11,194,000	
41	437 Surplus Applied to Depreciation	0	
42	208 Unappropriated Earned Surplus (at end of period)		83,405,236
43			
44	<b>TOTALS</b>	97,505,199	97,505,199

CASH BALANCES AT END OF YEAR			
Line No.	Items (a)	Amount (b)	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12	<b>TOTAL</b>	0	
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 (151))		
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	0	0
DEPRECIATION FUND ACCOUNT (Account 126)			
Line No.	(a)	Amount (b)	
24	<b>DEBITS</b>		
25	Balance of account at beginning of year		4,677,107
26	Income during year from balance on deposit (interest)		
27	Amount transferred from income		1,966,660
28	Miscellaneous Debits		
29	<b>TOTAL</b>		6,643,767
30	<b>CREDITS</b>		
31	Amount expended for construction purposes (Sec. 57,C.164 of G.L.)		1,219,532
32	Amounts expended for renewals,viz:-		
33	Miscellaneous Credits		
34			
35			
36			
37			
38			
39	Balance on hand at end of year		5,424,235
40	<b>TOTAL</b>		6,643,767



UTILITY PLANT - ELECTRIC							
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	1. INTANGIBLE PLANT						
2							
3							
4							
5							
6	2. PRODUCTION PLANT						
7	A. Steam Production						
8	310 Land and Land Rights						
9	311 Structures and Improvements						
10	312 Boiler Plant Equipment						
11	313 Engines and Engine Driven Generators						
12	314 Turbogenerator Units						
13	315 Accessory Electric Equipment						
14	316 Miscellaneous Power Plant Equipment						
15	Total Steam Production Plant						
16	B. Nuclear Production Plant						
17	320 Land and Land Rights						
18	321 Structures and Improvements						
19	322 Reactor Plant Equipment						
20	323 Turbogenerator Units						
21	324 Accessory Electric Equipment						
22	325 Miscellaneous Power Plant Equipment						
23	Total Nuclear Production Plant						

1. Report below the cost of utility plant in service according to prescribed accounts preceding year. Such items should be included in column (c). effect of such amounts.

2. Do not include as adjustments, corrections of additions and retirements for the current or the preceding year. Such items should be included in column (c). 4. Reclassifications or transfers within utility plant accounts should be shown in column (f).

3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative

UTILITY PLANT - ELECTRIC (Continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights						
3	331 Structures and Improvements						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators						
6	334 Accessory Electric Equipment						
7	335 Miscellaneous Power Plant Equipment						
8	336 Roads, Railroads and Bridges						
9	Total Hydraulic Production Plant	-	-	-	-	-	-
10	D. Other Production Plant						
11	340 Land and Land Rights						
12	341 Structures and Improvements						
13	342 Fuel Holders, Producers and Accessories						
14	343 Prime Movers						
15	344 Generators						
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	-	-	-	-	-	-
19	Total Production Plant	-	-	-	-	-	-
20	3. Transmission Plant						
21	350 Land and Land Rights	841,112	-	-	-	-	841,112
22	351 Clearing Land and Rights of Way	415,000	-	-	-	-	415,000
23	352 Structures and Improvements	4,310,219	-	194,006	-	-	4,116,213
24	353 Station Equipment	8,811,795	-	394,236	-	-	8,417,559
25	354 Towers and Fixtures	-	-	-	-	-	-
26	355 Poles and Fixtures	3,434,037	-	110,099	-	-	3,323,938
27	356 Overhead Conductors and Devices	2,906,627	48,884	89,548	-	-	2,865,963
28	357 Underground Conduit	1,263,434	-	66,298	-	-	1,197,136
29	358 Underground Conductors and Devices	1,303,174	-	71,375	-	-	1,231,799
30	359 Roads and Trails	-	-	-	-	-	-
31	Total Transmission Plant	23,285,398	48,884	925,562	-	-	22,408,720

UTILITY PLANT -- ELECTRIC (Continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights	31,398	-	-	-	-	31,398
3	361 Structures and Improvements	148,116	382,955	5,002	-	-	526,069
4	362 Station Equipment	2,021,142	27,968	348,680	-	-	1,700,430
5	363 Storage Battery Equipment	-	-	-	-	-	-
6	364 Poles Towers and Fixtures	72,058	25,598	19,861	-	-	77,795
7	365 Overhead Conductors and Devices	94,690	222,594	57,981	-	-	259,303
8	366 Underground Conduit	1,454,953	-	469,790	-	-	985,163
9	367 Underground Conductors and Devices	3,595,511	51,992	246,818	-	-	3,400,685
10	368 Line Transformers	88,020	29,414	117,434	-	-	-
11	369 Services	-	-	-	-	-	-
12	370 Meters	2,227,441	136,399	173,955	-	-	2,189,885
13	371 Installations on Customer's Premises	830	-	-	-	-	830
14	372 Leased Prop on Customer's Premises	-	-	-	-	-	-
15	373 Streetlight and Signal Systems	-	-	-	-	-	-
16	Total Distribution Plant	10,247,245	1,118,190	1,459,380	-	-	9,906,055
17	5. GENERAL PLANT						
18	389 Land and Land Rights	625,000	-	-	-	-	625,000
19	390 Structures and Improvements	1,817,706	-	60,952	-	-	1,756,754
20	391 Office Furniture and Equipment	27,861	-	4,370	-	-	23,491
21	392 Transportation Equipment	2,452,582	36,486	104,415	-	-	2,384,653
22	393 Stores Equipment	-	-	-	-	-	-
23	394 Tools, Shop and Garage Equipment	52,455	189	2,363	-	-	50,281
24	395 Laboratory Equipment	8,934	-	1,392	-	-	7,542
25	396 Power Operated Equipment	-	-	-	-	-	-
26	397 Communication Equipment	669,726	2,471	43,696	-	-	628,501
27	398 Miscellaneous Equipment	10,127	-	648	-	-	9,479
28	399 Other Tangible Property	-	-	-	-	-	-
29	Total General Plant	5,664,391	39,146	217,836	-	-	5,485,701
30	Total Electric Plant in Service	39,197,034	1,206,220	2,602,778	-	-	37,800,476
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	39,197,034	1,206,220	2,602,778	-	-	37,800,476

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

(Except Nuclear Materials)

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

Line No.	Item (a)	Total Cost (b)	Kinds of Fuel and Oil		
			Quantity (c)	Cost (d)	Quantity (e)
1	On Hand Beginning of Year				
2	Received During Year				
3	TOTAL	0			
4	Used During Year (Note A)				
5					
6					
7					
8					
9					
10					
11	Sold or Transferred				
12	TOTAL DISPOSED OF	0			
13	BALANCE END OF YEAR	0			
Kinds of Fuel and Oil - continued					
Line No.	Item (g)	Quantity (h)	Cost (i)	Quantity (j)	Cost (k)
14	On Hand Beginning of Year				
15	Received During Year				
16	TOTAL				
17	Used During Year (Note A)				
18					
19					
20					
21					
22					
23					
24	Sold or Transferred				
25	TOTAL DISPOSED OF				
26	BALANCE END OF YEAR				

Note A -- Indicate specific purpose for which used, e.g., Boiler Oil, Make Oil, Generator Fuel, etc.

<b>MISCELLANEOUS NONOPERATING INCOME (Account 421)</b>		
Line No.	Item (a)	Amount (b)
1	Grant Income	156,508
2		
3		
4		
5		
6	<b>TOTAL</b>	156,508
<b>OTHER INCOME DEDUCTIONS (Account 426)</b>		
Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14	<b>TOTAL</b>	0
<b>MISCELLANEOUS CREDITS TO SURPLUS (Account 434)</b>		
Line No.	Item (a)	Amount (b)
15		
16		
17		
18		
19		
20		
21		
22		
23	<b>TOTAL</b>	0
<b>MISCELLANEOUS DEBITS TO SURPLUS (Account 435)</b>		
Line No.	Item (a)	Amount (b)
24	Light department receipts benefiting the town and retained by	
25	the town, in excess of appropriations benefiting the light department.	2,307,586
26		
27	Payment in Lieu of Taxes	1,100,000
28		
29		
30		
31		
32	<b>TOTAL</b>	3,407,586
<b>APPROPRIATIONS OF SURPLUS (Account 436)</b>		
Line No.	Item (a)	Amount (b)
33		
34	Bond Payment	11,194,000
35		
36		
37		
38		
39		
40	<b>TOTAL</b>	11,194,000

<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 MCF (cents) (0.0000) (d)	
1						
2						
3						
4		<b>TOTALS</b>				
<b>MUNICIPAL REVENUES (Account 482,444)</b> (K.W.H. Sold under the provision of Chapter 269, Acts of 1927)						
		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue Per KWH (cents) (0.0000) (d)	
5	444-2	Municipal: (Other than Street Lighting)	5,334,880	838,047	0.1571	
6						
7						
8						
9						
10						
11						
12		<b>TOTALS</b>	5,334,880	838,047	0.1571	
13	444-1	Street Lighting	2,307,182	270,932	0.1174	
14						
15						
16						
17						
18		<b>TOTALS</b>	2,307,182	270,932	0.1174	
19		<b>TOTALS</b>	7,642,062	1,108,979	0.1451	
<b>PURCHASED POWER (Account 555)</b>						
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 KWH (cents) (0.0000) (e)
20	Shell			52,222,400	2,508,353	
21	Saddleback			8,837,570	774,291	0.0876
22	Spruce Mountain			9,905,360	933,056	0.0942
23	Canton			6,435,490	621,191	
24	NU Gen (Solar)			3,964,290	248,974	
25	MMWEC - PASNY		115KV	11,684,870	354,008	0.0303
26	NextEra		115KV	136,132,570	7,858,933	0.0577
27	NextEra Virtual Power			46,720,000	2,424,423	0.0519
28	Miller			9,346,650	445,927	0.0477
29	ISO			55,082,238	16,928,249	0.3073
29		<b>TOTALS</b>		340,331,438	33,097,405	0.0973
<b>SALES FOR RESALE (Account 447)</b>						
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 KWH (cents) (0.0000) (e)
30						
31						
32						
33						
34						
35						
36						
37						
38						
39		<b>TOTALS</b>		0	0	

**ELECTRIC OPERATING REVENUES (Account 400)**

1. Report below the amount of operating revenue for the year for each prescribed account and the amount of increase or decrease over the preceding year.

2. If increases and decreases are not derived from previously reported figures, explain any inconsistencies.

3. Number of customers should be reported on the basis of meters, plus number of late-rate accounts except where separate meter readings are added for billing purposes, one customer shall be counted for each group of meters so added. The average number of customers means the average of the 12 figures at the close of each month. If the customer count in the residential service classification includes customers counted more than once because of special services, such as water heating, etc., indicate in a footnote the number of such duplicate customers included in the classification.

4. Unmetered sales should be included below. The details of such sales should be given in a footnote.

5. Classification on Commercial and Industrial Sales, Account 442, 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. See Account 442 of the Uniform System of Accounts. Explain basis of Classification

Line No.	Account (a)	Operating Revenues			Kilowatt-hours Sold			Average Number of Customers per Month	
		Amount for Year (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)		
1	<b>SALES OF ELECTRICITY</b>								
2	440 Residential Sales	15,112,731	2,179,682	91,093,528	3,780,695	13,649	59		
3	442 Commercial and Industrial Sales	39,225,090	5,060,345	229,403,638	9,419,909	2,221	2		
4	Small Commercial B Sales	0	0	0	0	0	0		
5	Large Commercial C Sales	0	0	0	0	0	0		
6	444 Municipal Sales	1,108,979	86,874	7,642,062	(306,376)	8	(1)		
7	445 Other Sales to Public Authorities	0	0	0	0	0	0		
8	446 Sales to Railroads and Railways	0	0	0	0	0	0		
9	448 Interdepartmental Sales	0	0	0	0	0	0		
10	449 Miscellaneous Sales	0	0	0	0	0	0		
11	<b>Total Sales to Ultimate Consumers</b>	<b>55,446,800</b>	<b>7,326,901</b>	<b>328,139,228</b>	<b>12,894,228</b>	<b>15,878</b>	<b>60</b>		
12	447 Sales for Resale	0	0	0	0	0	0		
13	<b>Total Sales of Electricity*</b>	<b>55,446,800</b>	<b>7,326,901</b>	<b>328,139,228</b>	<b>12,894,228</b>	<b>15,878</b>	<b>60</b>		
14	<b>OTHER OPERATING REVENUES</b>								
15	450 Forfeited Discounts	639,430	(5,052)						
16	451 Miscellaneous Service Revenues	0	0						
17	453 Sales of Water and Water Power	0	0					0.000	
18	454 Rent from Electric Property	0	0						
19	455 Interdepartmental Rents	0	0						
20	456 Other Electric Revenues - NSTAR	2,937,075	36,623					328,139,228	
21									
22									
23									
24									
25	<b>Total Other Operating Revenues</b>	<b>3,576,505</b>	<b>31,571</b>						
26	<b>Total Electric Operating Revenue</b>	<b>59,023,305</b>	<b>7,358,472</b>						

\* Includes revenues from application of fuel clauses \$

Total KWH to which applied

**SALES OF ELECTRICITY TO ULTIMATE CONSUMERS**

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

Line No.	Account No.	Schedule (a)	K.W.H. (b)	Revenue (c)	Average Revenue per KWH (cents) (0.0000) (d)	Number of Customers (per Bills rendered)	
						July 31 (e)	Dec 31 (f)
1	400.000	Residential	90,325,445	14,954,265	0.1656	13,741	13,649
2	442.000	Commercial	102,052,716	19,422,137	0.1903	1,970	1,984
3	442.000	Industrial	127,350,922	19,802,953	0.1555	47	45
4	442.000	Municipal Building	5,334,880	838,047	0.1571	7	7
5	442.000	Municipal Street Lighting	2,307,182	270,932	0.1174	1	1
6	442.000	Security Light	768,083	158,466	0.2063	193	192
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL SALES TO ULTIMATE CONSUMERS (page 37 Line 11)			328,139,228	55,446,800	0.1690	15,959	15,878



**ELECTRIC OPERATION AND MAINTENANCE EXPENSES**

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

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>POWER PRODUCTION EXPENSES</b>		
2	<b>STEAM POWER GENERATION</b>		
3	Operation:		
4	500 Operation supervision and engineering	0	0
5	501 Fuel	0	0
6	502 Steam Expenses	0	0
7	503 Steam from other sources	0	0
8	504 Steam transferred -- Cr.	0	0
9	505 Electric expenses	0	0
10	506 Miscellaneous steam power expenses	0	0
11	507 Rents	0	0
12	Total Operation	0	0
13	Maintenance:		
14	510 Maintenance supervision and engineering	0	0
15	511 Maintenance of Structures	0	0
16	512 Maintenance of boiler plant	0	0
17	513 Maintenance of electric plant	0	0
18	514 Maintenance of miscellaneous steam plant	0	0
19	Total Maintenance	0	0
20	Total power production expenses -steam power	0	0
21	<b>NUCLEAR POWER GENERATION</b>		
22	Operation:		
23	517 Operation supervision and engineering	0	0
24	518 Fuel	0	0
25	519 Coolants and water	0	0
26	520 Steam Expenses	0	0
27	521 Steam from other sources	0	0
28	522 Steam transferred -- Cr.	0	0
29	523 Electric expenses	0	0
30	524 Miscellaneous nuclear power expenses	0	0
31	525 Rents	0	0
32	Total Operation	0	0
33	Maintenance:		
34	528 Maintenance supervision and engineering	0	0
35	529 Maintenance of Structures	0	0
36	530 Maintenance of reactor plant	0	0
37	531 Maintenance of electric plant	0	0
38	532 Maintenance of miscellaneous nuclear plant	0	0
39	Total Maintenance	0	0
40	Total power production expenses -nuclear power	0	0
41	<b>HYDRAULIC POWER GENERATION</b>		
42	Operation:		
43	535 Operation supervision and engineering	0	0
44	536 Water for power	0	0
45	537 Hydraulic expenses	0	0
46	538 Electric expenses	0	0
47	539 Miscellaneous hydraulic power generation expenses	0	0
48	540 Rents	0	0
49	Total Operation	0	0

<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued</b>			
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	0	0
4	542 Maintenance of structures	0	0
5	543 Maintenance or reservoirs, dams and waterways	0	0
6	544 Maintenance of electric plant	0	0
7	545 Maintenance of miscellaneous hydraulic plant	0	0
8	Total maintenance	0	0
9	Total power production expenses - hydraulic power	0	0
10	<b>OTHER POWER GENERATION</b>		
11	Operation:		
12	546 Operation supervision and engineering	0	0
13	547 Fuel	0	0
14	548 Generation Expenses	0	0
15	549 Miscellaneous other power generation expense	0	0
16	550 Rents	0	0
17	Total Operation	0	0
18	Maintenance:		
19	551 Maintenance supervision and engineering	0	0
20	552 Maintenance of Structures	0	0
21	553 Maintenance of generating and electric plant	0	0
22	554 Maintenance of miscellaneous other power generation plant	0	0
23	Total Maintenance	0	0
24	Total power production expenses - other power	0	0
25	<b>OTHER POWER SUPPLY EXPENSES</b>		
26	555 Purchased power	29,981,592	4,948,002
27	556 System control and load dispatching	0	0
28	557 Other expenses	449,041	283,034
29	Total other power supply expenses	30,430,633	5,231,036
30	Total power production expenses	30,430,633	5,231,036
31	<b>TRANSMISSION EXPENSES</b>		
32	Operation:		
33	560 Operation supervision and engineering	0	0
34	561 Load dispatching	222,430	14,463
35	562 Station expenses	293,559	44,062
36	563 Overhead line expenses	0	0
37	564 Underground line expenses	0	0
38	565 Transmission of electricity by others	2,683,027	(524,602)
39	566 Miscellaneous transmission expenses	0	0
40	567 Rents	0	0
41	Total Operation	3,199,016	(466,077)
42	Maintenance:		
43	568 Maintenance supervision and engineering	0	0
44	569 Maintenance of structures	0	0
45	570 Maintenance of station equipment	20,254	12,528
46	571 Maintenance of overhead lines	810,631	61,003
47	572 Maintenance of underground lines	19,553	16,329
48	573 Maintenance of miscellaneous transmission plant	0	0
49	Total maintenance	850,438	89,860
50	Total transmission expenses	4,049,454	(376,217)

<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued</b>			
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	56,294	(1,716)
4	581 Load dispatching (Operation Labor)	0	0
5	582 Station expenses	297,608	37,644
6	583 Overhead line expenses	384,784	(147,663)
7	584 Underground line expenses	19,713	9,513
8	585 Street lighting and signal system expenses	47,009	13,712
9	586 Meter expenses	28,087	4,431
10	587 Customer installations expenses	5,860	4,175
11	588 Miscellaneous distribution expenses	82,318	(74,503)
12	589 Rents	945	630
13	Total operation	922,618	(153,777)
14	Maintenance:		
15	590 Maintenance supervision and engineering	269,600	(7,552)
16	591 Maintenance of structures	2,974	2,974
17	592 Maintenance of station equipment	217,510	116,021
18	593 Maintenance of overhead lines	322,669	231,688
19	594 Maintenance of underground lines	64,663	20,490
20	595 Maintenance of line transformers	213,682	18,449
21	596 Maintenance of street lighting and signal systems	9,036	(9,994)
22	597 Maintenance of meters	9,429	(4,494)
23	598 Maintenance of miscellaneous distribution plant	0	(90)
24	Total maintenance	1,109,563	367,492
25	Total distribution expenses	2,032,181	213,715
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	Operation:		
28	901 Supervision	0	0
29	902 Meter reading expenses	403,850	(21,718)
30	903 Customer records and collection expenses	668,688	112,944
31	904 Uncollectible accounts	92,970	(7,725)
32	905 Miscellaneous customer accounts expenses	0	0
33	Total customer accounts expenses	1,165,508	83,501
34	<b>SALES EXPENSES</b>		
35	Operation:		
36	911 Supervision	0	0
37	912 Demonstrating and selling expenses	228,732	47,800
38	913 Advertising expenses	12,059	10,586
39	916 Miscellaneous sales expenses	0	0
40	Total sales expenses	240,791	58,386
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	Operation:		
43	920 Administrative and general salaries	619,085	100,828
44	921 Office supplies and expenses	2,737	1,754
45	922 Administrative expenses transferred - Cr	0	0
46	923 Outside services employed	276,886	147,840
47	924 Property insurance	115,625	5,000
48	925 Injuries and damages	726,808	14,967
49	926 Employee pensions and benefits	647,331	37,629
50	928 Regulatory commission expenses	0	0
51	929 Store Expense	0	0
52	930 Miscellaneous general expenses	239,503	17,147
53	931 Rents	29,572	(2,158)
55	Total operation	2,657,547	323,007

<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued</b>				
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	46,233	4,081	
4	Total administrative and general expenses	2,703,780	327,088	
5	Total Electric Operation and Maintenance Expenses	40,622,347	5,537,509	
<b>SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES</b>				
Line No.	Functional Classification (a)	Operation (b)	Maintenance (c)	Total (d)
6	<b>Power Production Expenses</b>			
7	Electric Generation:			
8	Steam Power:			
9	Nuclear Power			
10	Hydraulic Power			
11	Other Power			
12	Other Power Supply Expenses	30,430,633		30,430,633
13	Total power production expenses	30,430,633		30,430,633
14	Transmission Expenses	3,199,016	850,438	4,049,454
15	Distribution Expenses	922,618	1,109,563	2,032,181
16	Customer Accounts Expenses	1,165,508		1,165,508
17	Sales Expenses	240,791		240,791
18	Administrative and General Expenses	2,657,547	46,233	2,703,780
19	Total Electric Operation and			
20	Maintenance Expenses	38,616,113	2,006,234	40,622,347
21	Ratio of operating expenses to operating revenues (carry out decimal two places, (e.g.. 0.00%) Compute by dividing Revenues (Acct 400) into the sum of Operation and Maintenance Expenses (Page 42, line 20 (d), Depreciation (Acct 403) and Amortization (Acct 407)			73.23%
22	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts.			3,910,744
23	Total number of employees of electric department at end of year including administrative, operating, maintenance, construction and other employees (including part-time employees)			37

<p><b>TAXES CHARGED DURING THE YEAR</b></p> <p>3. The aggregate of each kind of tax should be listed under the appropriate heading of "Federal", "State" and "Local" in such manner that the total tax for each State and for all subdivisions can be readily ascertained.</p> <p>4. The accounts to which the taxes charged were distributed should be shown in columns (c) to (h). Show both the utility department and number of account charged. For taxes charged to utility plant show the number of the appropriate balance sheet plant account or subaccount.</p>									
Line No.	Kind of Tax (a)	Total Taxes Charged During Year (omit cents) (b)	Electric Acct 408,409 (c)	Gas Acct 408,409 (d)	(e)	(f)	(g)	(h)	(i)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
<b>TOTALS</b>									

1. This schedule is intended to give the account distribution of total taxes charged to operations and other final accounts during the year.

2. Do not include gasoline and other sales taxes which have been charged to accounts to which the material on which the tax was levied which the tax was levied was charged. If the actual or estimated amounts of such taxes are known, they should be shown as a footnote and designated whether estimated or actual amounts.

5. For any tax which it was necessary to apportion more than one utility department account, state in a footnote the basis of apportioning such tax.

6. Do not include in this schedule entries with respect to deferred income taxes, or taxes collected through payroll deductions or otherwise pending transmittal of such taxes to the taxing authority.

OTHER UTILITY OPERATING INCOME (Account 414)					
Report below the particulars called for in each column					
Line No.	Property (a)	Amount of Investment (b)	Amount of Department (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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42					
43					
44					
45					
46					
47					
48					
49					
50					
51	TOTALS				

<b>INCOME FROM MERCHANDISE, JOBBING, AND CONTRACT WORK (Account 415)</b> Report by utility departments the revenue, costs, expenses, and net income from merchandising, jobbing, and contract work during the year.					
Line No.	Item (a)	Electric Department (b)	Gas Department (c)	Other Utility Department (d)	Total (e)
1	Revenues:				
2	Merchandise sales, less discounts,				0
3	allowances and returns				0
4	Contract work				0
5	Commissions				0
6	Other (list according to major classes)				0
7					
8					
9					
10	Total Revenues	0	0	0	0
11					
12					
13	Costs and Expenses:				
14	Cost of sales (list according to major				
15	classes of cost)				
16	Jobbing/Contract Costs				0
17	Materials				0
18	Outside Service Labor				
19					
20					
21					
22					
23					
24					
25					
26	Sales Expenses				
27	Customer accounts expenses				
28	Administrative and general expenses				
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50	TOTAL COSTS AND EXPENSES	0	0	0	0
51	Net Profit (or loss)	0	0	0	0





SALES FOR RESALE (Account 447) - Continued

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

integrated).

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

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

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

Type of Demand Reading (i)	Voltage at Which Delivered (j)	Revenue (Omit Cents)					Revenue per kwh (CENTS) (0.0000) (p)	Line No.
		Kilowatt-Hours (k)	Capacity Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
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								32
								33
								34
								35
								36
								37
								38
								39
								40
								41
	TOTALS:	0	0.00	0.00		0.00		42



PURCHASED POWER (Account 555)  
(EXCEPT INTERCHANGE POWER)

4. If receipt of power is at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; seller owned or leased, SS.

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

should be furnished whether or not used in the determination of demand charges. Show in column (i) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).

6. The number of kilowatt hours purchased should be the quantities shown by the power bills.

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

Type of Demand Reading (l)	Voltage at Which Delivered (j)	Cost of Energy (Omit Cents)					KWH (CENTS) (0.0000) (p)	Line No.
		Kilowatt-Hours (k)	Capacity Charges (l)	Energy Charges	Other Charges (n) **	Total (o)		
								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								13
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								33
								34
								35
								36
								37
								38
								39
								40
								41
	TOTALS:	0	-	-	-	-		42

**INTERCHANGE POWER (Included in Account 555)**

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

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

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

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

Line No.	Name of Company (a)	Interchange Across State Lines (b)	Point of Interchange (c)	Voltage at Which Interchanged (d)	Kilowatt-hours		Net Difference (g)	Amount of Settlement (h)
					Received (a)	Delivered (f)		
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	TOTALS				0	0	0	0

**B. Details of Settlement for Interchange Power**

Line No.	Name of Company (i)	Explanation (j)	Amount (k)	
13				
14				
15				
16				
17				
18				
19				
20				
21	TOTAL			

ELECTRIC ENERGY ACCOUNT			
Report below the information called for concerning the disposition of electric energy generated, purchased and interchanged for the year.			
Line No.	Item (a)		Kilowatt-hours (b)
1	<b>SOURCES OF ENERGY</b>		
2	Generation		
3	Steam		
4	Nuclear		
5	Hydro		
6	Other		
7	Total Generation		
8	Purchases		330,984,788
9		( In (gross)	
10	Interchanges	< Out (gross)	
11		( Net (Kwh)	9,346,650
12		( Received	
13	Transmission for/by others (wheeling)	< Delivered	
14		( Net (Kwh)	0
15	<b>TOTAL</b>		<b>340,331,438</b>
16	<b>DISPOSITION OF ENERGY</b>		
17	Sales to ultimate consumers (including interdepartmental sales)		328,139,228
18	Sales for resale		0
19	Energy furnished without charge		
20	Energy used by the company (excluding station use):		
21	Electric department only		
22	Energy losses		
23	Transmission and conversion losses		
24	Distribution losses	3.58%	12,192,210
25	Unaccounted for losses		
26	Total energy losses		12,192,210
27	Energy losses as percent of total on line 15	3.58%	
28		<b>TOTAL</b>	<b>340,331,438</b>

**MONTHLY PEAKS AND OUTPUT**

1. Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-hours) for the combined sources of electric energy of respondent.

2. Monthly peak col. (b) should be respondent's maximum kw load as measured by the sum of its coincidental net generation and purchase 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 integrated.)

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.

**Town of NORWOOD**

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	53,250	Friday	5	6:00 PM	60 min	29,452,995
30	February	47,985	Wednesday	7	12:00 PM	60 min	24,546,489
31	March	45,917	Wednesday	21	12:00 PM	60 min	26,853,708
32	April	43,557	Thursday	5	11:00 AM	60 min	24,055,861
33	May	55,653	Thursday	3	3:00 PM	60 min	26,358,740
34	June	62,745	Friday	29	2:00 PM	60 min	28,160,704
35	July	72,046	Tuesday	17	2:00 PM	60 min	35,323,996
36	August	79,155	Wednesday	29	2:00 PM	60 min	36,179,283
37	September	73,911	Thursday	6	1:00 PM	60 min	28,654,117
38	October	56,800	Wednesday	10	3:00 PM	60 min	26,599,718
39	November	47,644	Thursday	15	5:00 PM	60 min	26,271,118
40	December	48,877	Tuesday	18	6:00 PM	60 min	27,874,709
41						<b>TOTAL</b>	<b>340,331,438</b>

<b>GENERATING STATIONS</b>						<b>Pages 58 through 66</b>
<b>GENERATING STATION STATISTICS (Large Stations)</b>						<b>Pages 58-59</b>
(Except Nuclear)						
Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)	Plant (e)	
1						
2						
3						
4						
5						
6						
<b>STEAM GENERATING STATIONS</b>						<b>Pages 60-61</b>
Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)	Plant (e)	
1						
2						
3						
4						
5						
6						
<b>HYDROELECTRIC GENERATING STATIONS</b>						<b>Pages 62-63</b>
Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)	Plant (e)	
1						
2						
3						
4						
5						
6						
<b>COMBUSTION ENGINE AND OTHER GENERATING STATIONS</b>						<b>Pages 64-65</b>
Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)	Plant (e)	
1						
2						
3						
4						
5						
6						
<b>GENERATING STATION STATISTICS (Small Stations)</b>						<b>Page 66</b>
Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)	Plant (e)	
1						
2						
3						
4						
5						
6						

TRANSMISSION LINE STATISTICS								
Report information concerning transmission line as indicated below.								
Line No.	Designation		Operating Voltage (c)	Type of Supportive Structure (d)	Length (Pole Miles)		Number of Circuits (g)	Size of Conductors and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1	Sharon	Norwood	115KV	Wood	3.300	None	1	795 MCM
2				H Frame	3.300		1	OPGW
3								
4	STA 495	STA 469	115KV	Underground	2.2 Miles		2	1000 MCM
5	Dean St	Ellis Ave			2-4 Way			Solid
6					Duct Banks			Dielectric
7								Copper
8								
9								
10								
11								
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42								
43								
44								
45								
46								
47	TOTALS				0		4	

\* where other than 60 cycle, 3 phase, so indicate.

**SUBSTATIONS**

Line No.	Name and Location of Substation (a)	Character of Substation (b)	Voltage			Capacity of Substation in kva (In Service) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number of Units (j)	Total Capacity (k)
1	Station 495 - Dean Street	Distribution Attended	115,000	13,800		205,000	4	0	None		
2	Station 469 - Ellis Ave	Distribution - Unattended	115,000	13,800		165,000	3	0	None		
3											
4											
5											
6											
7											
8											
9											
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24											
25											
26											
<b>TOTALS</b>						<b>370,000</b>	<b>7</b>	<b>0</b>			

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.



## OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles -- Beginning of Year	138.64		138.64
2	Added During Year	0.04		0.04
3	Retired During Year	0.00		0.00
4	Miles -- End of Year	138.68	0.00	138.68
5	*			
6				
7				
8	Distribution System Characteristics - AC or DC, Phase, cycles and operating voltages for Light and Power			
9				
10				
11				
12				
13				
14				
15				

## ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (kva)
16	Number at beginning of year:	9,401	29,865	3,932	337,153.0
17	Additions during year				
18	Purchased		0	29	2,875.0
19	Installed	34	103	24	2,350.0
20	Associated with utility plant acquired				
21	Total Additions	34	103	53	5,225.0
22	Reductions during year:				
23	Retirements	29	0	45	4,325.0
24	Associated with utility plant sold				
25	Total Reductions	29	0	45	4,325.0
26	Number at end of year	9,406	29,968	3,940	338,053.0
27	In stock		14,282	107	25,153.0
28	Locked meters on customers' premises				
29	Inactive transformers on system				
30	In customers' use		15,583	3,833	312,900.0
31	In company's use				
32	Number at end of year		29,865	3,940	338,053.0

\*

**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 System (a)	Miles of Conduit Bank (All Sizes and Types) (b)	Underground Cable		Submarine Cable	
			Miles* (c)	Operating Voltage (d)	Feet* (e)	Operating Voltage (f)
1		24.780	7.53	3/C 220 Volts		
2			9.27	1/C 220 Volts		
3			.05	2/C 220 Volts		
4			34.21	3/C 13,800 Volts		
5			6.40	1/C 13,800 Volts		
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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31						
32						
33						
34						
49	TOTALS	24.78	57.46			

\*indicate number of conductors per cable

**STREET LAMPS CONNECTED TO SYSTEM**

Line No.	City or Town (a)	Total (b)	Type							
			LED		Mercury Vapor		Florescent & Quartz		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Norwood	2,942	2,781	-	26	-	-	-	135	-
2										
3										
4										
5										
6										
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49										
50										
51										
52	TOTALS	2,942	2,781	-	26	-	-	-	135	-

**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 revenues predicted on the previous year's operations.

Effective Date	M.D.P.U. Number	Rate Schedule	Estimated Effect on Annual Revenues	
			Increases	Decreases
1/1/2018	M.D.P.U. #259-267	All Rates	5.9%	
7/1/2018	M.D.P.U. #268-277	All Rates	2.8%+.025 Conservation Charge	

**RATE A-01**

**General Purpose Rate --- Residential**

Availability

Single phase only; for all residential use except as provided for Apartment or Multiple Dwellings.

Apartments and Multiple Dwellings

If, in an apartment building or residential premises having more than one dwelling, separate metering of each individual apartment or dwelling does not presently exist, so that billing directly to the individual tenants is not feasible and service has been rendered through a single meter then the below rate and minimum charge shall be multiplied by the number of apartments or dwellings connected to such a meter.

Limitations

Total capacity of all motors shall not exceed 10 horsepower. All motors larger than 1/4 horsepower shall be operated at 240 volts.

Monthly Charges

\$ 4.41	For the first 10 kilowatt-hours or any part thereof.
24.67 cents per kWh	For the next 40 kilowatt-hours,
13.96 cents per kWh	For the next 50 kilowatt-hours,
11.86 cents per kWh	For the excess over 100 kilowatt-hours

A discount of 10 percent will be allowed on all bills paid within 10 days of the date thereof.

Minimum Net Bill --- \$4.41 per month

Purchase Power Adjustment

As provided in the "Purchased Power Adjustment" applied after discount to all kilowatt-hours on this rate.

**Rate H-08**

**Heating Rate**

Availability

Single phase or 3 phase where facilities of Light Department permit, for residential use except as provided for Apartment and Multiple Dwellings, or other approved use, and where no fuel or energy other than electricity is used for cooking, water heating and/or space heating or at discretion of Light Department and subject to approval of Light Commissioners.

Apartments and Multiple Dwellings

If, in an apartment building or residential premises having more than one dwelling, separate metering of each individual apartment or dwelling does not presently exist, so that billing directly to the individual tenants is not feasible and service has been rendered through a single meter, then the below specified number of kilowatt-hours in each block of the below rate and the minimum charge shall be multiplied by the number of apartments or dwellings connected to such meter.

Limitations

Total capacity of all motors shall not exceed 10 horsepower. All motors larger than 1/4 horsepower shall be operated at 240 volts. Building construction requirements for space heating shall conform to specifications of the department. Requirements for water heater shall be in accordance with Rate F-06.

Monthly Charges Excluding Water Heating

First 400 kwhr or less Computed on Rate A-01, M.D.P.U. No. 259

All over 400 kwhr @ 10.40 cents per kwhr.

Monthly Charges for Water Heating

Customer's option of either:

- (a) Uncontrolled energy - computed on above Rate or
- (b) Controlled energy - computed on Rate F-06

A discount of 10 percent will be allowed on all bills paid within 10 days of date thereof.

Minimum Net Bill \$4.41 per month

Purchase Power Adjustment

As provided in the " Purchased Power Adjustment" applied after discount to all kilowatt hours on this rate.

**Rate F-06**

**Water Heating**

Availability

Single Phase only, for residential and commercial electric water heating during "off-peak" hours only, except that energy for water heating will be available for not less than 17 hours in each calendar day.

Requirements

Water heaters shall be of an approved electric, storage, two element type of not less than 50 gallon capacity. Each tank to which the electric hot water heater is connected or in which the electric hot water heater is installed, shall be provided with a combination temperature and pressure relief valve of the tube type which provides a tube extending down into the water in the tank and a vacuum relief valve, these devices to be placed directly on the tank and not in the piping to or from the tank. No check valve is to be permitted in the cold water line.

Monthly Charges

\$ 8.58 For the first 50 kilowatt-hours or any part thereof.

6.62 cents per kWh For the excess over 50 kilowatt-hours.

Minimum Net Bill -- \$ 8.58 per month.

No Discount allowed under these rates.

Purchase Power Adjustment

As provided in the "Purchased Power Adjustment" applied to all kilowatt-hours on this rate.

**Rate B-02**

**General Purpose Rate -- Commercial & Industrial**

Availability

Single Phase, low tension, and where established facilities of the department permit, three-phase, low tension. Service available at 120 volts for lighting and at 208 volts or 277 volts for power.

Limitations

All motors and motor-starting equipment shall be subject to the approval of the department. The locked rotor current of any motor shall not exceed 450 percent of its rated load current. Any motor in excess of 10hp must be brought to the attention of the department.

Monthly Charges

\$ 16.82	For the first 25 kilowatt-hours or any part thereof.
14.58 cents per kwhr	For the next 175 kilowatt-hours.
4.49 cents per kwhr	For the next 1800 kilowatt-hours.
16.82 cents per kwhr	For the excess over 2000 kilowatt-hours.

A discount of 5 percent will be allowed on all bills paid within 10 days of the date thereof.

Minimum Net Bill -- \$ 16.82 per month.

Purchase Power Adjustment

As provided in the "Purchased Power Adjustment" applied after discount to all kilowatt-hours on this rate.



**Rate P-16**

**Primary Service**

Availability

Three-Phase high tension only where established facilities of the department permit.

Limitations

Metering will be accomplished on the primary side of customers' transformers. At Light Department option compensated secondary metering may be substituted.

In no case will the Department own, maintain, or be responsible in any way for any customer owned equipment or apparatus.

Monthly Demand Charges

\$1,603 For the first 50 kilovolt-amperes of the billing demand or any part thereof.

25.62 per kilovolt-ampere For the next 650 kilovolt-amperes of the billing demand.

24.99 per kilovolt-ampere For the excess over 700 kilovolt-amperes of the billing demand.

The billing demand shall be the highest 15-minute kilovolt-ampere demand for the month.

Minimum Net Bill -- \$ 1,603 per month.

Monthly Energy Charge

5.04 cents per kwhr For all energy.

A discount of 10 percent will be allowed on all bills paid within 20 days of the date thereof.

Purchase Power Adjustment

As provided in the "Purchased Power Adjustment" applied after discount to all kilowatt-hours on this rate.

**Rate M-13**

**Heating Rate**

Availability

Three-phase high tension primary service only where established facilities of the Department permit and customer provides required equipment for new buildings and additions to existing buildings where no fuel other than electricity is used for space heating.

Limitations

Metering will be accomplished on the primary side of customer's transformers. In no case will the Department own, maintain, or be responsible in any way for any customer owned equipment or apparatus.

Monthly Demand Charge

\$ 27.33 per kilovolt-ampere of the billing demand.

Monthly Energy Charge

4.74 cents per kilowatt hour for all energy.

The billing demand shall be the 15-minute kilovolt-ampere demand occurring at the time of the Municipal Light Department's system demand for the month.

Building construction requirements for space heating shall conform to specifications of the department.

A discount of 5 percent will be allowed on all bills paid within 10 days of the date thereof.

Purchase Power Adjustment

As provided in the " Purchased Power Adjustment" applied to all kilowatt-hours on this rate.

**Purchased Power Adjustment**

The Purchased Power Adjustment (PPA), as amended from time to time, will be calculated by the Norwood Municipal Light Department.

The PPA will be charged to all customers.

Any significant increases or decreases in total Purchased Power Cost from the base Purchased Power Cost in the calendar year will be added to or subtracted from the base year PPA. This revised PPA will then be charged to all customers

The PPA for residential customers includes the credit for New York Power Authority hydroelectric purchases. In addition, the PPA for all customers includes actual charges by our suppliers, and allocation of transmission cost, capacity cost, energy conservation expense, customer incentives, rate stabilization fund and an adjustment for over collection or under collection.

**Rate O-15  
 Outdoor Lighting Rate**

Availability

To any customer for outdoor lighting for private property.

Area Lighting

The Light Department will furnish, install and maintain the lamps, luminaries, brackets and photo electric control and will provide electric service to operate the lamps.

Size	<u>SERVICE</u> Type	<u>RATE PER MONTH</u>		<u>MONTHLY</u> <u>EST. USAGE</u>
		"A"	"B"	KWHR
175 watt*	Mercury	\$15.55	31.68	77
400 watt*	Mercury	25.73	41.85	173
100 watt*	High Pressure Sodium	19.36	35.47	39
150 watt*	High Pressure Sodium	23.43	39.57	67
250 watt*	High Pressure Sodium	27.37	43.49	103
400 watt*	High Pressure Sodium	35.72	51.83	175
30 watt	LED (Eq 100HPS)	18.16	34.28	up to 40
70 watt	LED (Eq 150HPS)	20.79	36.91	up to 75
110 watt	LED (Eq 250HPS)	25.29	41.40	up to 115
190 watt	LED (Eq 400HPS)	30.05	46.17	up to 195

Flood Lighting

The customer will furnish the lamp, luminaries, photo cell, brackets and all required hardware to be approved by Norwood Light Department. The above will be installed by the Light Department and the Light Department will provide electric service to operate the lamp.

Size	<u>SERVICE</u> Type	<u>RATE PER MONTH</u>		<u>MONTHLY</u> <u>EST. USAGE</u>
		"A"	"B"	KWHR
400 watt**	Mercury	\$15.05	\$31.17	173
1000 watt**	Mercury	24.06	40.18	420
150 watt**	High Pressure Sodium	13.20	29.31	67
250 watt**	High Pressure Sodium	14.92	31.04	103
400 watt**	High Pressure Sodium	17.99	34.10	175
1000 watt**	High Pressure Sodium	24.08	40.18	420
80 watt	LED (Eq 250HPS)	19.84	35.96	up to 90
130 watt	LED (Eq 400HPS)	23.02	39.14	up to 150
250 watt	LED (Eq 400HPS GE)	32.55	48.67	up to 260

\* This service not available for new installation.

\*\* Customer must provide replacement bulbs under these rates.

Issued by John J. Carroll  
 Manager, Municipal Light Department

Issued on May 2, 2017  
 Effective on all bills mailed after January 1, 2018

Norwood Municipal Light Department

M.D.P.U. No.265  
Cancels  
M.D.P.U. No. 254

**Rate O-15**

**Installation "A"**

Lighting service supplied under this rate shall be installed on an existing approved company pole carrying utilization voltage.

**Installation "B"**

The company will furnish and maintain one pole and section of secondary wire not to exceed 125 feet for lighting service supplied under this rate.

**Purchase Power Adjustment**

As provided in the "Purchased Power Adjustment" applied to all kilowatt-hours on this rate. Kilowatt-hours used to calculate Purchase Power Adjustment are listed as monthly estimated usage.

**General Conditions**

- (1) Lamps will be operated by photo electric control, with hours of operation aggregating approximately 4,200 per year, from dusk to dawn.
- (2) Service and necessary maintenance will be performed only during the regularly scheduled working hours of the company. Burned out lamps will be replaced upon notification of the outage for lamp outages.
- (3) "Company poles" shall include poles owned jointly by the company with other. Approval of poles, pole locations and structures for the installations shall be at the sole discretion of the company.
- (4) Any required equipment other than the above will be installed and maintained at the customer's expense.
- (5) The customer shall assume all risk of loss or damage to equipment and property, in connection with the lighting system.
- (6) The customer is responsible and liable for the design and aiming of all luminaries.

**Terms of Contract**

This service may be terminated by giving 90 days notice in writing. If service is terminated prematurely, a penalty charge for unrecovered plant will be charged to the customer.

Issued by John J. Carroll  
Manager, Municipal Light Department

Issued on May 2, 2017  
Effective on all bills mailed after January 1, 2018

Norwood Municipal Light Department

M.D.P.U. NO. 266  
Cancels  
M.D.P.U. NO. 255

**RATE E-05**

**Low Income Rate --- Residential**

Availability

Single phase only; for residential use only. Available upon application to the Norwood Light Department in accordance with this filing.

Minimum Requirements

Applicants must be customers of record, head of household and receiving SSI. Certification of these three items is required annually and must be provided by the applicant before billing under this rate can be initiated.

Limitations

Total capacity of all motors shall not exceed 10 horsepower. All motors larger than 1/4 horsepower shall be operated at 240 volts.

Monthly Charges

\$ 4.41	For the first 10 kilowatt-hours or any part thereof.
24.67 cents per kwhr	For the next 40 kilowatt-hours,
13.96 cents per kwhr	For the next 50 kilowatt-hours,
11.86 cents per kwhr	For the excess over 100 kilowatt-hours.

A discount of 35 percent will be allowed on the non-fuel portion of all bills paid within 10 days of the date thereof. Discounts will not be allowed on any bills paid after the discount period.

Minimum Net Bill --- \$4.41 per month

Purchase Power Adjustment

As provided in the "Purchased Power Adjustment" applied after discount to all kilowatt hours on this rate.

Issued by John J. Carroll  
Manager, Municipal Light Department

Issued on May 2, 2017  
Effective on all bills mailed after January 1, 2018

Norwood Municipal Light Department

MDPU No. 267  
Cancels  
M.D.P.U. No. 256

**Rate U-21**

**General Purpose Rate B -02- Schools**

Availability

Single Phase, low tension, and where established facilities of the department permit, three-phase, low tension. Service available at 120 volts for lighting and at 208 volts or 277 volts for power.

Limitations

All motors and motor-starting equipment shall be subject to the approval of the department. The locked rotor current of any motor shall not exceed 450 percent of its rated load current. Any motor in excess of 10hp must be brought to the attention of the department.

Monthly Charges

\$ 16.82	For the first 25 kilowatt-hours or any part thereof.
14.58 cents per kWh	For the next 175 kilowatt-hours.
4.49 cents per kWh	For the next 1800 kilowatt-hours.
16.82 cents per kWh	For the excess over 2000 kilowatt-hours.

A discount of 10 percent will be allowed on all bills paid within 10 days of the date thereof.

Minimum Net Bill -- \$ 16.82 per month.

Purchase Power Adjustment

As provided in the "Purchased Power Adjustment" applied after discount to all kilowatt-hours on this rate.

Issued by John J. Carroll  
Manager, Municipal Light Department

Issued on May 2, 2017  
Effective on all bills mailed after January 1, 2018

**Rate R-18**

**General Purpose Rate – With Renewable Energy Buyback Provision**

**Availability**

This rate shall be available to all general service Customers (the Customer) that generate electrical power and energy using renewable energy generation technologies. For purposes of this rate, renewable energy technologies shall include wind, solar photovoltaic, solar thermal and hydroelectric. The Norwood Municipal Light Department (NMLD) reserves the right to determine if the generation technology utilized by the Customer meets the eligibility requirements of this rate.

All electricity produced shall be for the exclusive use of NMLD and shall not be resold or transferred to others. Service taken under this rate shall be electrically separated from the Customer's generating facilities or provided with sufficient protective devices to prohibit such facilities from causing disturbances on the NMLD's system consistent with the NMLD's Distributed Generation Interconnection Policy. The NMLD reserves the right to refuse service to facilities where the NMLD reasonably determines that the protection provided is inadequate.

All electricity supplied to the Customer by the NMLD shall be measured through one bi-directional meter, except that where the NMLD deems it impractical to deliver electricity through one service, or where the NMLD has installed more than one meter, then the measurement of electricity may be by two or more meters. The Customer shall furnish, at its expense, necessary facilities for metering equipment including a dedicated voice grade telephone circuit for remote reading whereby the NMLD can meter the output of the Customer's generating facilities.

Any Customer receiving service under this rate will be required to execute an interconnection Service Agreement setting forth the specific provisions of service to that customer, including but not limited to the service location, generating facilities, metering installation, protection systems, term of agreement, and any upgrades required to the NMLD distribution system to accommodate the Customer's interconnection. All such upgrades will be at the sole discretion of NMLD and at the sole cost of the Customer.

**Limitations**

All electricity consumed by the Customer shall be billed at the Applicable Service Rate for that customer classification.

All electricity generated by the Customer's generation equipment shall be purchased by NMLD at the rates set forth in this Schedule.



Billing Period

Billing shall be done on a monthly basis.

Monthly Charges

The monthly charge shall be the General Service Charge, minus the Energy Credit.

Estimated Bills

When an actual meter reading cannot be taken on the normal meter reading schedule for the Billing Period, an estimated bill will be rendered based on usage data provided by the Customer or by estimated by the NMLD.

Discount

A discount will be allowed based on the applicable service rate on all bills paid within 10 days of the date thereof.

Purchase Power Adjustment

As provided in the "Purchased Power Adjustment" applied after discount to all kilowatt-hours for the Customer's energy usage, exclusive of any energy generated by the Customer's generating equipment on this rate

Definitions

General Service Charge: the total charge for the Customer's demand and energy usage, exclusive of any energy generated by the Customer's generating equipment, under the Applicable Service Rate.

Applicable Service Rate: the rate under which the customer would be eligible to receive firm service from the NMLD where no renewable energy was being generated.

Generation Energy: the amount of energy, in kWh, produced by the Customer's generating equipment during the billing month.

Energy Buyback: is equal to the product of the energy received to the NMLD Utility Grid and the Energy Buyback Rate.

Energy Credit Rate: is equal to \$.075 per kWh consumed by the customer.

Energy Buyback Rate: is equal to annual Real Time Average SEMA LMP per kWh for energy received to the NMLD Utility Grid.

Issued by John J. Carroll  
Manager, Municipal Light Department

Issued on May 2, 2017  
Effective on all bills mailed after June 1, 2017

**RATE A-01**

**General Purpose Rate --- Residential**

**Availability**

Single phase only; for all residential use except as provided for Apartment or Multiple Dwellings.

**Apartments and Multiple Dwellings**

If, in an apartment building or residential premises having more than one dwelling, separate metering of each individual apartment or dwelling does not presently exist, so that billing directly to the individual tenants is not feasible and service has been rendered through a single meter then the customer charge shall be multiplied by the number of apartments or dwellings connected to such a meter.

**Limitations**

Total capacity of all motors shall not exceed 10 horsepower. All motors larger than 1/4 horsepower shall be operated at 240 volts.

**Monthly Charges**

Customer Charge \$10.00/month

Distribution Energy Charge \$0.0608/kWh

Purchased Power and Transmission Charge \$0.1199/kWh

A discount of 10 percent will be allowed on all bills paid within 10 days of the date thereof.

Minimum Bill --- \$10.00 per month

**Purchased Power Adjustment**

As provided in M.D.P.U. No.274, Purchased Power Adjustment, applied after discount to all kilowatt-hours on this rate.

**Conservation and Renewable Energy Charge**

A charge of \$0.0025/kWh will be applied after discount to all kilowatt-hours on this rate.

**NYPA Hydropower Credit**

As provided in M.D.P.U. No.275, NYPA Hydropower Credit, applied after discount to all kilowatt-hours on this rate.

**Rate H-08**  
**Heating Rate**

**Availability**

Single phase or 3-phase where facilities of Light Department permit, for residential use except as provided for Apartment and Multiple Dwellings, or other approved use, and where no fuel or energy other than electricity is used for cooking, water heating and/or space heating or at discretion of Light Department and subject to approval of Light Commissioners.

**Apartments and Multiple Dwellings**

If, in an apartment building or residential premises having more than one dwelling, separate metering of each individual apartment or dwelling does not presently exist, so that billing directly to the individual tenants is not feasible and service has been rendered through a single meter, then customer charge shall be multiplied by the number of apartments or dwellings connected to such meter.

**Limitations**

Total capacity of all motors shall not exceed 10 horsepower. All motors larger than 1/4 horsepower shall be operated at 240 volts. Building construction requirements for space heating shall conform to specifications of the department. Requirements for water heater shall be in accordance with Rate F-06.

**Monthly Charges Excluding Water Heating**

Customer Charge	\$7.40/month
Distribution Energy Charge	\$0.0689/kWh
Purchased Power and Transmission Charge	\$0.1040/kWh

**Monthly Charges for Water Heating**

- Customer's option of either:
- (a) Uncontrolled energy - computed on above Rate or
  - (b) Controlled energy - computed on Rate F-06

A discount of 10 percent will be allowed on all bills paid within 10 days of date thereof.

Minimum Net Bill \$7.40 per month

M.D.P.U. No.269

Cancels

M.D.P.U. No.260

Norwood Municipal Light Department

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**Purchased Power Adjustment**

As provided in M.D.P.U. No.274, Purchased Power Adjustment, applied after discount to all kilowatt-hours on this rate.

**Conservation and Renewable Energy Charge**

A charge of \$0.0025/kWh will be applied after discount to all kilowatt-hours on this rate.

**NYPA Hydropower Credit**

As provided in M.D.P.U. No.275, NYPA Hydropower Credit, applied after discount to all kilowatt-hours on this rate.

**Rate F-06**  
**Water Heating**

**Availability**

Single Phase only, for residential and commercial electric water heating during "off-peak" hours only, except that energy for water heating will be available for not less than 17 hours in each calendar day.

**Requirements**

Water heaters shall be of an approved electric, storage, two element type of not less than 50 gallon capacity. Each tank to which the electric hot water heater is connected or in which the electric hot water heater is installed, shall be provided with a combination temperature and pressure relief valve of the tube type which provides a tube extending down into the water in the tank and a vacuum relief valve, these devices to be placed directly on the tank and not in the piping to or from the tank. No check valve is to be permitted in the cold water line.

**Monthly Charges**

Customer Charge	\$8.58/month
Distribution Energy Charge	\$0.0280/kWh
Purchased Power and Transmission Charge	\$0.0790/kWh

Minimum Net Bill -- \$ 8.58 per month.

No Discount allowed under these rates.

**Purchased Power Adjustment**

As provided in M.D.P.U. No.274, Purchased Power Adjustment, applied after discount to all kilowatt-hours on this rate.

**Conservation and Renewable Energy Charge**

A charge of \$0.0025/kWh will be applied after discount to all kilowatt-hours on this rate.

**NYPA Hydropower Credit**

As provided in M.D.P.U. No.275, NYPA Hydropower Credit, applied after discount to all kilowatt-hours on this rate.

**Rate B-02**

**General Purpose Rate -- Commercial & Industrial**

**Availability**

Single Phase, low tension, and where established facilities of the department permit, three-phase, low tension. Service available at 120 volts for lighting and at 208 volts or 277 volts for power.

**Limitations**

All motors and motor-starting equipment shall be subject to the approval of the department. The locked rotor current of any motor shall not exceed 450 percent of its rated load current. Any motor in excess of 10hp must be brought to the attention of the department.

**Monthly Charges**

Customer Charge	\$14.14/month
Distribution Energy Charge	
First 200 kWh per month	\$0.1054/kWh
Next 1,800 kWh per month	\$0.0200/kWh
All over 2,000 kWh per month	\$0.1054/kWh
Purchased Power and Transmission Charge	\$0.1100/kWh

A discount of 5 percent will be allowed on all bills paid within 10 days of the date thereof.

Minimum Net Bill -- \$ 14.14 per month.

**Purchased Power Adjustment**

As provided in M.D.P.U. No.274, Purchased Power Adjustment, applied after discount to all kilowatt-hours on this rate.

**Conservation and Renewable Energy Charge**

A charge of \$0.0025/kWh will be applied after discount to all kilowatt-hours on this rate.

**Rate P-16**  
**Primary Service**

**Availability**

Three-Phase high tension only where established facilities of the department permit.

**Limitations**

Metering will be accomplished on the primary side of customers' transformers. At Light Department option compensated secondary metering may be substituted.

In no case will the Department own, maintain, or be responsible in any way for any customer owned equipment or apparatus.

**Monthly Charges**

Customer Charge	\$100.00
Distribution Demand Charge	\$12.00/kVA
Distribution Energy Charge	\$0.0399/kWh
Purchased Power and Transmission Demand Charge	\$12.00/kVA
Purchased Power and Transmission Energy Charge	\$0.0737/kWh

A discount of 10 percent will be allowed on all bills paid within 20 days of the date thereof.

Minimum Net Bill -- \$ 100.00 per month

**Purchased Power Adjustment**

As provided in M.D.P.U. No.274, Purchased Power Adjustment, applied after discount to all kilowatt-hours on this rate.

**Conservation and Renewable Energy Charge**

A charge of \$0.0025/kWh will be applied after discount to all kilowatt-hours on this rate.

**Rate M-13**  
**Heating Rate**

**Availability**

Three-phase high tension primary service only where established facilities of the Department permit and customer provides required equipment for new buildings and additions to existing buildings where no fuel other than electricity is used for space heating.

**Limitations**

Metering will be accomplished on the primary side of customer's transformers. In no case will the Department own, maintain, or be responsible in any way for any customer owned equipment or apparatus.

**Monthly Charges**

Customer Charge	\$100.00
Distribution Demand Charge	\$12.00/kVA
Distribution Energy Charge	\$0.0435/kWh
Purchased Power and Transmission Demand Charge	\$12.00/kVA
Purchased Power and Transmission Energy Charge	\$0.0833/kWh

The billing demand shall be the 15-minute kilovolt-ampere demand occurring at the time of the Municipal Light Department's system demand for the month.

Building construction requirements for space heating shall conform to specifications of the department.

A discount of 10 percent will be allowed on all bills paid within 10 days of the date thereof.

**Purchased Power Adjustment**

As provided in M.D.P.U. No.274, Purchased Power Adjustment, applied after discount to all kilowatt-hours on this rate.

**Conservation and Renewable Energy Charge**

A charge of \$0.0025/kWh will be applied after discount to all kilowatt-hours on this rate.



**Purchased Power Adjustment**

There shall be added or credited to each monthly bill an amount equal to the total kWh billed during the month multiplied by the Purchased Power Adjustment determined as follows:

- A) The total Purchased Power Cost including transmission expense estimated to be charged to Accounts 555 and 565 for the period of usage MINUS:
- B) The total revenue estimated to be recovered through application of the Purchased Power Charge from all customers for the period. ALL DIVIDED BY:
- C) The estimated kWh to be sold during the period.

Normally the Purchased Power Adjustment will be calculated for billing for a six-month period beginning January 1st and July 1st of each year using the best information available to the Department at the time regarding the cost of purchased power and the amount of kWh to be sold during the six-month period. An adjustment shall be made each time that the Purchased Power Charge is calculated to reflect differences between estimated and actual kWh sold as well as to reflect differences between estimated and actual purchased power costs for the most recent six-month period for which actual data is available. This adjustment will be utilized in the following six-month Purchased Power Charge calculation to recover/credit any under collection/over collection of purchased power charges resulting from the previous months' billings. The Department reserves the right to adjust the Purchased Power Charge more frequently if purchased power costs or kWh sales deviate significantly from the estimates used to set the Purchased Power Charge.

**NYPA Hydropower Credit**

A credit per kilowatt-hour will be made to every Residential bill under M.D.P.U. Nos. 268, 269 and 270 that reflects the savings that the Department obtains from purchases of low-cost hydropower from the New York Power Authority as required under State and Federal law. The amount of the credit will be calculated and adjusted periodically to reflect the actual savings received and revenues previously credited to residential customers.

## Norwood Municipal Light Department

**Rate O-15****Outdoor Lighting Rate****Availability**

To any customer for outdoor lighting for private property.

**Area Lighting**

The Light Department will furnish, install and maintain the lamps, luminaries, brackets and photo electric control and will provide electric service to operate the lamps.

Size	Type	Rate Per month		Monthly Estimated Usage (kWh)
		"A"	"B"	
175 Watt*	Mercury	\$19.72	\$36.30	77
400 Watt*	Mercury	34.84	51.42	173
100 Watt*	High Pressure Sodium	21.79	38.36	39
150 Watt*	High Pressure Sodium	27.34	43.93	67
250 Watt*	High Pressure Sodium	33.13	49.71	103
400 Watt*	High Pressure Sodium	45.21	61.77	175
30 Watt	LED (Eq 100HPS)	19.18	35.75	Up to 40
70 Watt	LED (Eq 150HPS)	22.56	39.13	Up to 75
110 Watt	LED (Eq 250HPS)	27.87	44.43	Up to 115
190 Watt	LED (Eq 400HPS)	34.12	50.69	Up to 195

**Flood Lighting**

The customer will furnish the lamp, luminaries, photo cell, brackets and all required hardware to be approved by Norwood Light Department. The above will be installed by the Light Department and the Light Department will provide electric service to operate the lamp.

Size	Type	Rate Per month		Monthly Estimated Usage (kWh)
		"A"	"B"	
400 Watt*	Mercury	\$23.87	\$40.44	173
1000 Watt**	Mercury	45.11	61.68	420
150 Watt**	High Pressure Sodium	16.82	33.38	67
250 Watt**	High Pressure Sodium	20.34	36.91	103
400 Watt**	High Pressure Sodium	26.98	43.55	175
1000 Watt**	High Pressure Sodium	45.13	61.68	420
80 Watt	LED (Eq 250HPS)	21.75	38.33	Up to 90
130 Watt	LED (Eq 400HPS)	25.87	42.22	Up to 150
250 Watt	LED (Eq 400HPS GE)	37.71	54.28	Up to 260

\* This service not available for new installation.

\*\* Customer must provide replacement bulbs under these rates.

**Rate O-15**

**Installation "A"**

Lighting service supplied under this rate shall be installed on an existing approved company pole carrying utilization voltage.

**Installation "B"**

The company will furnish and maintain one pole and section of secondary wire not to exceed 125 feet for lighting service supplied under this rate.

**Purchased Power Adjustment**

As provided in M.D.P.U. No.274, Purchased Power Adjustment, applied after discount to all kilowatt-hours on this rate.

**Conservation and Renewable Energy Charge**

A charge of \$0.0025/kWh will be applied after discount to all kilowatt-hours on this rate.

**General Conditions**

- (1) Lamps will be operated by photo electric control, with hours of question aggregating approximately 4,200 per year, from dusk to dawn.
- (2) Service and necessary maintenance will be performed only during the regularly scheduled working hours of the company. Burned out lamps will be replaced upon notification of the outage for lamp outages.
- (3) "Company poles" shall include poles owned jointly by the company with other. Approval of poles, pole locations and structures for the installations shall be at the sole discretion of the company.
- (4) Any required equipment other than the above will be installed and maintained at the customer's expense.
- (5) The customer shall assume all risk of loss or damage to equipment and property, in connection with the lighting system.
- (6) The customer is responsible and liable for the design and aiming of all luminaries.

**Terms of Contract**

This service may be terminated by giving 90 days notice in writing. If service is terminated prematurely, a penalty charge for unrecovered plant will be charged to the customer.

Norwood Municipal Light Department

**RATE E-05**

**Low Income Rate --- Residential**

**Availability**

Single phase only; for residential use only. Available upon application to the Norwood Light Department in accordance with this filing.

**Minimum Requirements**

Applicants must be customers of record, head of household and receiving SSI. Certification of these three items is required annually and must be provided by the applicant before billing under this rate can be initiated.

**Limitations**

Total capacity of all motors shall not exceed 10 horsepower. All motors larger than 1/4 horsepower shall be operated at 240 volts.

**Monthly Charges**

Customer Charge      \$10.00/month  
Distribution Energy Charge    \$0.0608/kWh  
Purchased Power and Transmission Charge    \$0.1199/kWh  
Minimum Bill --- \$10.00 per month

A discount of 35 percent will be allowed on all bills paid within 10 days of the date thereof. Discounts will not be allowed on any bills paid after the discount period.

Minimum Net Bill --- \$10.00 per month

**Purchased Power Adjustment**

As provided in M.D.P.U. No.274, Purchased Power Adjustment, applied after discount to all kilowatt-hours on this rate.

**Conservation and Renewable Energy Charge**

A charge of \$0.0025/kWh will be applied after discount to all kilowatt-hours on this rate.

**NYPA Hydropower Credit**

As provided in M.D.P.U. No.275, NYPA Hydropower Credit, applied after discount to all kilowatt-hours on this rate.

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

Mayor

*[Handwritten signature]*

Town Manager

Tony Mazzucco

*[Handwritten signature]*

Thomas F. Maloney

*[Handwritten signature]*

William J. Plasko

Selectmen  
or  
Members  
of the  
Municipal  
Light  
Board

*[Handwritten signature]*

David E. Hajjar

*[Handwritten signature]*

Allan D. Howard

*[Handwritten signature]*

Paul A. Bishop

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

SS

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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

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