

**The Commonwealth of Massachusetts**

**Return**

**of the**

**Municipal Light Department of**

**the Town of**

**GROTON**

**to the**

**Department of Public Utilities**

**of Massachusetts**

**For the Year ended December 31,**

**2015**

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

Official title: Manager

Form AC-19

Kevin Kelly

Office address: 23 Station Ave

Groton, MA 01450

# GOULET, SALVIDIO & ASSOCIATES, P.C.

## CERTIFIED PUBLIC ACCOUNTANTS

James F. Goulet, CPA, MST  
Catherine A. Kuzmeskus, CPA  
James R. Dube, CPA

Heather E. Isaacs, CPA  
Tracy I. Vaughan, CPA  
Shawn J. Goulet, EA

### INDEPENDENT ACCOUNTANTS' COMPILED REPORT

The Board of Commissioners  
Groton Electric Light Department  
Groton, Massachusetts 01450

We have compiled the balance sheet of Groton Electric Light Department as of December 31, 2015 and the related statements of income and unappropriated retained earnings for the year then ended included in the accompanying prescribed form. We have not audited or reviewed the financial statements included in the accompanying prescribed form and, accordingly, do not express an opinion or provide any assurance about whether the financial statements are in accordance with the form prescribed by the Massachusetts Department of Public Utilities.

Management is responsible for the preparation and fair presentation of the financial statements included in the form prescribed by the Massachusetts Department of Public Utilities and for designing, implementing, and maintaining internal control relevant to the preparation and fair presentation of the financial statements.

Our responsibility is to conduct the compilation in accordance with Statements on Standards for Accounting and Review Services issued by the American Institute of Certified Public Accountants. The objective of a compilation is to assist management in presenting financial information in the form of financial statements without undertaking to obtain or provide any assurance that there are no material modifications that should be made to the financial statements.

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.

This report is intended solely for the information and use of the management of Groton Electric Light Department and the Massachusetts Department of Public Utilities and is not intended to be and should not be used by anyone other than these specified parties.

Goulet, Salvidio & Associates P.C.

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

Worcester, Massachusetts  
March 24, 2016

## TABLE OF CONTENTS

	Page
General Information	3
Schedule of Estimates	4
Customers in each City or Town	4
Appropriations Since Beginning of Year	5
Changes in the Property	5
Bonds	6
Town Notes	7
Cost of Plant	8- 8B
Comparative Balance Sheet	10-11
Income Statement	12
Earned Surplus	12
Cash Balances	14
Materials and Supplies	14
Depreciation Fund Account	14
Utility Plant-Electric	15-17
Production Fuel and Oil Stocks	18
Miscellaneous Nonoperating Income	21
Other Income Deductions	21
Miscellaneous Credits to Surplus	21
Miscellaneous Debits to Surplus	21
Appropriations of Surplus	21
Municipal Revenues	22
Purchased Power	22
Sales for Resale	22
Electric Operating Revenues	37
Sales of Electricity to Ultimate Consumers	38
Electric Operation and Maintenance Expenses	39-42
Taxes Charged During Year	49
Other Utility Operating Income	50
Income from Merchandising, Jobbing and Contract Work	51
Sales for Resale	52-53
Purchased Power (except Interchange)	54-55
Interchange Power	56
Electric Energy Account	57
Monthly Peaks and Output	57
Generating Station Statistics	58-59
Steam Generating Stations	60-61
Hydroelectric Generating Stations	62-63
Combustion Engine and Other Generating Stations	64-65
Generating Statistics (Small Stations)	66
Transmission Line Statistics	67
Substations	68
Overhead Distribution Lines Operated	69
Electric Distribution Services, Meters, and Line Transformers	69
Conduit, Underground Cable and Submarine Cable	70
Streetlamps	71
Rate Schedule Information	79
Signature Page	81

FOR GAS PLANTS ONLY:	Page		Page
Utility Plant - Gas	19-20	Gas Generating Plant	74
Gas Operating Revenues	43	Boilers	75
Sales of Gas to Ultimate Customers	44	Scrubbers, Condensers & Exhausters	75
Gas Operation & Maintenance Expenses	45-47	Purifiers	76
Purchased Gas	48	Holders	76
Sales for Resale	48	Transmission and Distribution Mains	77
Sales of Residuals	48	Gas Distribution Services, House	77
Record of Sendout for the Year in MCF	72-73	Governors and Meters	78

## GENERAL INFORMATION

Page 3

1. Name of town (or city) making report.	Groton
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, 94; No, 8   Second vote: Yes, 105; No, 6 Date when town (or city) began to sell gas and electricity,	Electric March 20, 1909 July 22, 1909 November 20, 1909
3. Name and address of manager of municipal lighting:	
Kevin Kelly	c/o GELD - 23 Station Ave   Groton, MA 01450
4. Name and address of mayor or selectmen:	
Peter S. Cunningham	Groton, MA
Joshua A. Degen	Groton, MA
Anna Eliot	Groton, MA
John G. Petropoulos	Groton, MA
Stuart Schulman	Groton, MA
5. Name and address of town (or city) treasurer:	
Michael Hartnett	Groton, MA
6. Name and address of town (or city) clerk:	
Michael Bouchard	Groton, MA
7. Names and addresses of members of municipal light board:	
Bruce Easom	Groton, MA
Rodney R. Hersh	Groton, MA
Kevin J. Lindemer	Groton, MA
8. Total valuation of estates in town (or city) according to last State valuation (taxable)	\$ 1,547,028,448
9. Tax rate for all purposes during the year:	\$ 18.78
10. Amount of manager's salary:	\$ 157,029
11. Amount of manager's bond:	\$ 100,000
12. Amount of salary paid to members of municipal light board (each):	\$ -

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>1</b>	<b>INCOME FROM PRIVATE CONSUMERS:</b>	
1	From sales of gas	
2	From sales of electricity	9,450,000
3		9,450,000
4		
<b>5</b>	<b>EXPENSES</b>	
6	For operation, maintenance and repairs	9,350,000
7	For interest on bonds, notes or scrip	
8	For depreciation fund ( 3 %	17,273,829 as per page 8B) 518,215
9	For sinking fund requirements	
10	For note payments	
11	For bond payments	122,350
12	For loss in preceding year	
13		9,990,565
14		
<b>15</b>	<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	555,000
19	Of electricity to be used for street lights	17,800
20	Total of above items to be included in the tax levy	572,800
21		
22	New construction to be included in the tax levy	
23	Total amounts to be included in the tax levy	572,800

**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
		Groton/West Groton	4,857
		Littleton	6
		Westford	6
		Pepperell	16
		Ayer	1
<b>TOTAL</b>	<b>0</b>	<b>TOTAL</b>	<b>4,886</b>

**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	17,800
2. Municipal buildings	555,000
3.	
	TOTAL _____ 572,800

\* 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:** Not Applicable**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		Interest		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
July 22, 1909	September 11, 1909	4,500					
July 22, 1909	November 1, 1909	6,000					
July 22, 1909	November 1, 1909	4,500					
November 2, 1909	December 1, 1909	2,000					
November 2, 1909	January 1, 1910	860					
November 2, 1909	January 1, 1910	1,000					
November 20, 1973	July 1, 1975	585,000					
May 1, 2000	July 15, 2001	750,000	38,280	annual	variable	semi-annual	147,560
May 19, 2014	August 1, 2014	2,000,000	80,000	annual	variable	semi-annual	1,920,000
TOTAL		3,353,860			TOTAL		2,067,560

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		Interest		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
							None
TOTAL		0					TOTAL NONE

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	2. PRODUCTION PLANT						
6	A. Steam Production						
7	310 Land and Land Rights						
8	311 Structures and Improvements						
9	312 Boiler Plant Equipment						
10	313 Engines and Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	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

## 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						0
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						
22	351 Clearing Land and Rights of Way						
23	352 Structures and Improvements						
24	353 Station Equipment						
25	354 Towers and Fixtures						
26	355 Poles and Fixtures						
27	356 Overhead Conductors and Devices						
28	357 Underground Conduit						
29	358 Underground Conductors and Devices						
30	359 Roads and Trails						
31	Total Transmission Plant	0	0	0	0	0	0

## 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	426,953	425,049				852,002
3	361 Structures and Improvements	400,666					400,666
4	362 Station Equipment	1,524,678	2,900				1,527,578
5	363 Storage Battery Equipment	-					0
6	364 Poles Towers and Fixtures	2,149,498	45,620	(31,082)			2,164,036
7	365 Overhead Conductors and Devices	2,559,517	393,413				2,952,930
8	366 Underground Conduit	364,217	9,861				374,078
9	367 Underground Conductors and Devices	577,932	97,106				675,038
10	368 Line Transformers	1,133,471	69,514	(2,088)			1,200,897
11	369 Services	242,599					242,599
12	370 Meters	633,904	49,750				683,654
13	371 Installations on Customer's Premises	35,217					35,217
14	372 Leased Prop on Customer's Premises	17,393					17,393
15	373 Streetlight and Signal Systems	164,338	59,067				223,405
16	Total Distribution Plant	10,230,383	1,152,280	(33,170)	0	0	11,349,493
17	5. GENERAL PLANT						
18	389 Land and Land Rights	328,726	38,474				367,200
19	390 Structures and Improvements	139,509	4,721,855	(139,510)			4,721,854
20	391 Office Furniture and Equipment	269,185	38,893	(177,267)			130,811
21	392 Transportation Equipment	1,417,407					1,417,407
22	393 Stores Equipment	20,799					20,799
23	394 Tools, Shop and Garage Equipment	81,293					81,293
24	395 Laboratory Equipment	27,500					27,500
25	396 Power Operated Equipment	214,463					214,463
26	397 Communication Equipment	31,004	8,897	(31,003)			8,898
27	398 Miscellaneous Equipment	153,313					153,313
28	399 Other Tangible Property	0					0
29	Total General Plant	2,683,199	4,808,119	(347,780)	0	0	7,143,538
30	Total Electric Plant in Service	12,913,582	5,960,399	(380,950)	0	0	18,493,031
31					Total Cost of Electric Plant.....		18,493,031
33					Less Cost of Land, Land Rights, Rights of Way.....		1,219,202
34					Total Cost upon which Depreciation is based .....		17,273,829

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.

PAGE 9 IS A BLANK PAGE

**COMPARATIVE BALANCE SHEET Assets and Other Debits**

Line No.		Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1		<b>UTILITY PLANT</b>			
2	101	Utility Plant - Electric (P. 17)	7,634,050	13,114,717	5,480,667
3	101	Utility Plant - Gas (P. 20)			0
4					
5		Total Utility Plant	7,634,050	13,114,717	5,480,667
6					
7					
8					
9					
10					
11		<b>FUND ACCOUNTS</b>			
12	125	Sinking Funds			0
13	126	Depreciation Fund (P. 14)	1,433,569	184,434	(1,249,135)
14	128	Other Special Funds	1,524,740	2,062,336	537,596
15		Total Funds	2,958,309	2,246,770	(711,539)
16		<b>CURRENT AND ACCRUED ASSETS</b>			
17	131	Cash (P. 14)	789,774	137,302	(652,472)
18	132	Special Deposits	247,880	257,434	9,554
19	135	Working Funds	500	500	0
20	141	Notes Receivable	0	0	0
21	142	Customer Accounts Receivable	1,030,270	854,401	(175,869)
22	143	Other Accounts Receivable	4,007,444	241,884	(3,765,560)
23	146	Receivables from Municipality	0	0	0
24	151	Materials and Supplies (P. 14)	469,968	504,751	34,783
25					
26	165	Prepayments	991,925	1,010,165	18,240
27	174	Miscellaneous Current Assets	1,556	1,556	0
28		Total Current and Accrued Assets	7,539,317	3,007,993	(4,531,324)
29		<b>DEFERRED DEBITS</b>			
30	181	Unamortized Debt Discount			
31	182	Extraordinary Property Losses			
32	185	Other Deferred Debits	119,534	156,454	36,920
33		Total Deferred Debits	119,534	156,454	36,920
34					
35		Total Assets and Other Debits	18,251,210	18,525,934	274,724

**COMPARATIVE BALANCE SHEET Liabilities and Other Credits**

Line No.		Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1		<b>APPROPRIATIONS</b>			
2	201	Appropriations for Construction	0	0	0
3		<b>SURPLUS</b>			
4	205	Sinking Fund Reserves	0	0	0
5	206	Loans Repayment	1,151,180	1,269,460	118,280
6	207	Appropriations for Construction Repayments	0	0	0
7	208	Unappropriated Earned Surplus (P. 12)	7,505,940	7,227,120	(278,820)
8		Total Surplus	8,657,120	8,496,580	(160,540)
9		<b>LONG TERM DEBT</b>			
10	221	Bonds (P. 6)	2,185,840	2,067,560	(118,280)
11	231	Notes Payable (P. 7)	0	0	0
12		Total Bonds and Notes	2,185,840	2,067,560	(118,280)
13		<b>CURRENT AND ACCRUED LIABILITIES</b>			
14	232	Accounts Payable	1,170,982	1,004,728	(166,254)
15	234	Payables to Municipality	0	0	0
16	235	Customers' Deposits	234,021	242,378	8,357
17	236	Taxes Accrued	0	0	0
18	237	Interest Accrued	0	0	0
19	242	Miscellaneous Current and Accrued Liabilities	601,757	585,760	(15,997)
20		Total Current and Accrued Liabilities	2,006,760	1,832,866	(173,894)
21		<b>DEFERRED CREDITS</b>			
22	251	Unamortized Premium on Debt	59,005	55,992	(3,013)
23	252	Customer Advances for Construction	414,356	144,008	(270,348)
24	253	Other Deferred Credits	5,650	3,685	(1,965)
25		Total Deferred Credits	479,011	203,685	(275,326)
26		<b>RESERVES</b>			
27	260	Reserves for Uncollectible Accounts	0	0	0
28	261	Property Insurance Reserve	128,693	129,015	322
29	262	Injuries and Damages Reserves	0	0	0
30	263	Pensions and Benefits Reserves	3,174,329	3,220,558	46,229
31	265	Miscellaneous Operating Reserves	1,385,405	1,923,954	538,549
32		Total Reserves	4,688,427	5,273,527	585,100
33		<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>			
34	271	Contributions in Aid of Construction	234,052	651,716	417,664
35		Total Liabilities and Other Credits	18,251,210	18,525,934	274,724

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.

0 0

<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)	9,760,459	28,634
3	Operating Expenses:		
4	401 Operation Expense (p. 42 and 47)	8,646,517	248,679
5	402 Maintenance Expense	804,448	(43,539)
6	403 Depreciation Expense	364,735	14,583
7	407 Amortization of Property Losses	0	0
8			
9	408 Taxes (P. 49)	0	0
10	Total Operating Expenses	9,815,700	219,723
11	Operating Income	(55,241)	(191,089)
12	414 Other Utility Operating Income (P. 50)	0	0
13			
14	Total Operating Income	(55,241)	(191,089)
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	25,330	(12,078)
17	419 Interest Income	19,680	(4,975)
18	421 Miscellaneous Nonoperating Income (P. 21)	49,000	0
19	Total Other Income	94,010	(17,053)
20	Total Income	38,769	(208,142)
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization	(7,022)	(4,847)
23	426 Other Income Deductions	0	(86,130)
24	Total Income Deductions	(7,022)	(90,977)
25	Income Before Interest Charges	45,791	(117,165)
26	<b>INTEREST CHARGES</b>		
27	427 Interest on Bonds and Notes	66,277	39,737
28	428 Amortization of Debt Discount and Expense	0	0
29	429 Amortization of Premium on Debt - Credit	(3,013)	(1,758)
30	431 Other Interest Expense	10,974	10,947
31	432 Interest: Charged to Construction - Credit	0	0
32	Total Interest Charges	74,238	48,926
33	<b>NET INCOME</b>	(28,447)	(166,091)
<b>EARNED SURPLUS</b>			
Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period)		7,505,940
35			
36			
37	433 Balance Transferred from Income	28,447	0
38	434 Miscellaneous Credits to Surplus (P. 21)		0
39	435 Miscellaneous Debits to Surplus (P. 21)	0	
40	436 Appropriations of Surplus (P. 21)	250,373	
41	437 Surplus Applied to Depreciation		
42	208 Unappropriated Earned Surplus (at end of period)	7,227,120	
43			
44	<b>TOTALS</b>	7,505,940	7,505,940

CASH BALANCES AT END OF YEAR		
Line No.	Items (a)	Amount (b)
1	Operation Fund	137,302
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
	<b>TOTAL</b>	<b>137,302</b>
<b>MATERIALS AND SUPPLIES (Accounts 151-159, 163)</b>		
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	504,751
		504,751
		0
<b>DEPRECIATION FUND ACCOUNT (Account 126)</b>		
Line No.	(a)	Amount (b)
24	<b>DEBITS</b>	
25	Balance of account at beginning of year	1,433,569
26	Income during year from balance on deposit (interest)	865
27	Amount transferred from income (depreciation)	100,000
28	Bond Proceeds	0
29		
		<b>TOTAL</b>
		1,534,434
30	<b>CREDITS</b>	
31	Amount expended for construction purposes (Sec. 57,C.164 of G.L.)	1,350,000
32	Amounts expended for renewals,viz:-	
33	Power Contract Settlement	
34	Amount expended for bond payment	0
35		
36		
37		
38		
39	Balance on hand at end of year	184,434
40		
		<b>TOTAL</b>
		1,534,434

		UTILITY PLANT - ELECTRIC					
		preceding year. Such items should be included in column (c).					
		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).					
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		0	0	0	0	0	0
5	2. PRODUCTION PLANT						
6	A. Steam Production						
7	310 Land and Land Rights						
8	311 Structures and Improvements						
9	312 Boiler Plant Equipment						
10	313 Engines and Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	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						
23	Total Nuclear Production Plant	0	0	0	0	0	0

## 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	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						
22	351 Clearing Land and Rights of Way						
23	352 Structures and Improvements						
24	353 Station Equipment						
25	354 Towers and Fixtures						
26	355 Poles and Fixtures						
27	356 Overhead Conductors and Devices						
28	357 Underground Conduit						
29	358 Underground Conductors and Devices						
30	359 Roads and Trails						
31	Total Transmission Plant	0	0	0	0	0	0

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	426,953	425,049	0		0	852,002
3	361 Structures and Improvements	253,800	0	12,020		0	241,780
4	362 Station Equipment	736,129	2,900	45,740		0	693,289
5	363 Storage Battery Equipment	0	0	0		0	0
6	364 Poles Towers and Fixtures	475,740	45,620	64,485		0	456,875
7	365 Overhead Conductors and Devices	1,451,475	393,413	30,813		0	1,814,075
8	366 Underground Conduit	226,255	9,861	10,926		0	225,190
9	367 Underground Conductors and Devices	403,834	97,106	17,338		0	483,602
10	368 Line Transformers	641,783	69,514	34,004		0	677,293
11	369 Services	27,155	0	7,278		0	19,877
12	370 Meters	529,232	49,750	19,017		0	559,965
13	371 Installations on Customer's Premises	31,589	0	1,056		0	30,533
14	372 Leased Prop on Customer's Premises	0	0	0		0	0
15	373 Streetlight and Signal Systems	0	59,067	0		-	59,067
16	Total Distribution Plant	5,203,945	1,152,280	242,677	0	0	6,113,548
17	5. GENERAL PLANT						
18	389 Land and Land Rights	328,726	38,474	0		0	367,200
19	390 Structures and Improvements	0	4,721,855	4,185		0	4,717,670
20	391 Office Furniture and Equipment	146,604	38,893	54,688		0	130,809
21	392 Transportation Equipment	1,389,451	0	42,522		0	1,346,929
22	393 Stores Equipment	13,141	0	624		0	12,517
23	394 Tools, Shop and Garage Equipment	28,104	0	2,439		0	25,665
24	395 Laboratory Equipment	12,334	0	825		0	11,509
25	396 Power Operated Equipment	107,113	0	6,434		0	100,679
26	397 Communication Equipment	5,743	8,897	5,742		0	8,898
27	398 Miscellaneous Equipment	122,436	0	4,599		0	117,837
28	399 Other Tangible Property	0	0	0		0	0
29	Total General Plant	2,153,652	4,808,119	122,058	0	0	6,839,713
30	Total Electric Plant in Service	7,357,597	5,960,399	364,735	0	0	12,953,261
31	104 Utility Plant Leased to Others	0				0	0
32	105 Property Held for Future Use	0				0	0
33	107 Construction Work in Progress	276,453	156,071		(271,068)		161,456
34	Total Utility Plant Electric	7,634,050	6,116,470	364,735	0	(271,068)	13,114,717

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

(Except Nuclear Materials)

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

Line No.	Item (a)	Total Cost (b)	Kinds of Fuel and Oil			
			Quantity (c)	Cost (d)	Quantity (e)	Cost (f)
1	On Hand Beginning of Year	0				
2	Received During Year	0				
3	TOTAL	0				
4	Used During Year (Note A)	0				
5						
6						
7						
8						
9						
10						
11	Sold or Transferred	0				
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.

**MISCELLANEOUS NONOPERATING INCOME (Account 421)**

Line No.	Item (a)	Amount (b)
1	Grant Revenue	49,000
2		
3		
4		
5		
6		
	<b>TOTAL</b>	<b>49,000</b>

**OTHER INCOME DEDUCTIONS (Account 426)**

Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14		
	<b>TOTAL</b>	<b>0</b>

**MISCELLANEOUS CREDITS TO SURPLUS (Account 434)**

Line No.	Item (a)	Amount (b)
15		
16		
17		
18		
19		
20		
21		
22		
23		
	<b>TOTAL</b>	<b>0</b>

**MISCELLANEOUS DEBITS TO SURPLUS (Account 435)**

Line No.	Item (a)	Amount (b)
24		
25		
26		
27		
28		
29		
30		
31		
32		
	<b>TOTAL</b>	<b>0</b>

**APPROPRIATIONS OF SURPLUS (Account 436)**

Line No.	Item (a)	Amount (b)
33	Payment to Town in Lieu of Taxes	32,000
34	Loan Repayments	118,280
35	Transfers from Groton Cooperative	100,093
36		
37		
38		
39		
40		
	<b>TOTAL</b>	<b>250,373</b>

<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>						
		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)		4,063,749	577,957			
6					0.1422			
7								
8								
9								
10								
11								
12				4,063,749	577,957			
13	444-1		Street Lighting	112,472	15,150			
14					0.1347			
15								
16								
17			<b>TOTALS</b>		0.1347			
18			<b>TOTALS</b>					
19			<b>TOTALS</b>		0.1420			
<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)	Cost per KWH (cents) (0.0000) (d)			
20								
21								
22								
23								
24								
25								
26								
27								
28								
29			<b>TOTALS</b>		0 0			
<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)	Revenue per KWH (cents) (0.0000) (e)			
30								
31								
32								
33								
34								
35								
36								
37								
38								
39			<b>TOTALS</b>		0 0			

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.		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.					
2. If increases and decreases are not derived from previously reported figures, explain any inconsistencies.		4. Unmetered sales should be included below. The details of such sales should be given in a footnote.					
3. Number of customers should be reported on the basis of meters, plus number of late rate accounts except where separate		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)	<i>Operating Revenues</i>		<i>Kilowatt-hours Sold</i>		<i>Average Number of Customers per Month</i>	
		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	5,495,822	45,266	44,360,038	398,781	4,261	21
3	442 Commercial and Industrial Sales					0	0
4	Small Commercial B Sales	1,920,727	9,076	13,383,514	169,287	325	(4)
5	Large Commercial C Sales	1,323,916	(10,162)	9,042,600	(60,200)	3	0
6	444 Municipal Sales	593,107	(3,495)	4,176,221	(13,499)	63	2
7	445 Other Sales to Public Authorities		0	0	0	0	0
8	446 Sales to Railroads and Railways		0	0	0	0	0
9	448 Interdepartmental Sales		0	0	0	0	0
10	449 Miscellaneous Sales	117,322	6,182	827,509	21,805	44	5
11	<b>Total Sales to Ultimate Consumers</b>	9,450,894	46,867	71,789,882	516,174	4,696	24
12	447 Sales for Resale		0	0	0	0	0
13	<b>Total Sales of Electricity*</b>	9,450,894	46,867	71,789,882	516,174	4,696	24
14	<b>OTHER OPERATING REVENUES</b>						
15	450 Forfeited Discounts	164,087	20,320				
16	451 Miscellaneous Service Revenues	22,245	(3,364)				
17	453 Sales of Water and Water Power	0	0				
18	454 Rent from Electric Property	123,233	(35,189)				
19	455 Interdepartmental Rents	0	0				
20	456 Other Electric Revenues	0	0				
21							
22							
23							
24							
25	Total Other Operating Revenues	309,565	(18,233)				
26	<b>Total Electric Operating Revenue</b>	9,760,459	28,634				

\* Includes revenues from application of fuel clauses \$ 0

Total KWH to which applied 71,789,882

## 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.

**ELECTRIC OPERATION AND MAINTENANCE EXPENSES**

1. Enter in the space proved 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

**ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued**

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>HYDRAULIC POWER GENERATION - Continued</b>		
2	Maintenance:		
3	541 Maintenance Supervision and engineering	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	5,438,812	19,864
27	556 System control and load dispatching	0	0
28	557 Other expenses	0	0
29	Total other power supply expenses	5,438,812	19,864
30	Total power production expenses	5,438,812	19,864
31	<b>TRANSMISSION EXPENSES</b>		
32	Operation:		
33	560 Operation supervision and engineering	0	0
34	561 Load dispatching	0	0
35	562 Station expenses	0	0
36	563 Overhead line expenses	0	0
37	564 Underground line expenses	0	0
38	565 Transmission of electricity by others	1,716,914	130,307
39	566 Miscellaneous transmission expenses	0	0
40	567 Rents	0	0
41	Total Operation	1,716,914	130,307
42	Maintenance:		
43	568 Maintenance supervision and engineering	0	0
44	569 Maintenance of structures	0	0
45	570 Maintenance of station equipment	0	0
46	571 Maintenance of overhead lines	0	0
47	572 Maintenance of underground lines	0	0
48	573 Maintenance of miscellaneous transmission plant	0	0
49	Total maintenance	0	0
50	Total transmission expenses	1,716,914	130,307

**ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued**

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>DISTRIBUTION EXPENSES</b>		
2	Operation:		
3	580 Operation supervision and engineering	0	0
4	581 Load dispatching (Operation Labor) Transportation	34,371	9,728
5	582 Station expenses	16,021	6,832
6	583 Overhead line expenses	10,886	(6,177)
7	584 Underground line expenses	1,968	185
8	585 Street lighting and signal system expenses	0	0
9	586 Meter expenses	503	369
10	587 Customer installations expenses	0	0
11	588 Miscellaneous distribution expenses	11,426	(2,186)
12	589 Rents	1,080	350
13	Total operation	76,255	9,101
14	Maintenance:		
15	590 Maintenance supervision and engineering	0	0
16	591 Maintenance of structures	0	0
17	592 Maintenance of station equipment	0	0
18	593 Maintenance of overhead lines	758,228	(38,409)
19	594 Maintenance of underground lines	876	(2,867)
20	595 Maintenance of line transformers	0	(414)
21	596 Maintenance of street lighting and signal systems	791	(1,591)
22	597 Maintenance of meters	25,022	(682)
23	598 Maintenance of miscellaneous distribution plant	0	0
24	Total maintenance	784,917	(43,963)
25	Total distribution expenses	861,172	(34,862)
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	Operation:		
28	901 Supervision	0	0
29	902 Meter reading expenses	64,311	1,741
30	903 Customer records and collection expenses	198,747	15,037
31	904 Uncollectible accounts	10,399	4,184
32	905 Miscellaneous customer accounts expenses	0	(2,158)
33	Total customer accounts expenses	273,457	18,804
34	<b>SALES EXPENSES</b>		
35	Operation:		
36	911 Supervision	0	0
37	912 Demonstrating and selling expenses	0	0
38	913 Advertising expenses	0	0
39	916 Miscellaneous sales expenses	18,574	(3,673)
40	Total sales expenses	18,574	(3,673)
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	Operation:		
43	920 Administrative and general salaries	256,385	7,973
44	921 Office supplies and expenses	74,228	(6,527)
45	922 Administrative expenses transferred - Cr	0	0
46	923 Outside services employed	41,004	7,047
47	924 Property insurance	59,158	10,255
48	925 Injuries and damages	4,450	(1,377)
49	926 Employee pensions and benefits	646,009	64,390
50	928 Regulatory commission expenses	0	0
51	929 Store Expense	0	0
52	930 Miscellaneous general expenses	31,801	8,195
53	931 Rents	9,470	(15,680)
54	Total operation	1,122,505	74,276

<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	19,531	424
4	Total administrative and general expenses	1,142,036	74,700
5	Total Electric Operation and Maintenance Expenses	9,450,965	205,140
<b>SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES</b>			
Line No.	Functional Classification (a)	Operation (b)	Maintenance (c)
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	5,438,812	0
13	Total power production expenses	5,438,812	5,438,812
14	Transmission Expenses	1,716,914	1,716,914
15	Distribution Expenses	76,255	784,917
16	Customer Accounts Expenses	273,457	273,457
17	Sales Expenses	18,574	18,574
18	Administrative and General Expenses	1,122,505	19,531
19	Total Electric Operation and Maintenance Expenses	8,646,517	804,448
20			9,450,965
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)		100.57%
22	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts.		\$ 1,291,934
23	Total number of employees of electric department at end of year including administrative, operating, maintenance, construction and other employees (including part-time employees)		11



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	NONE				
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					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51	TOTALS				

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

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, allowances and returns				0
3					0
4	Contract work				25,330
5	Commissions				0
6	Other (list according to major classes)				0
7					
8					
9					
10	Total Revenues	0	0	0	25,330
11					
12					
13	Costs and Expenses:				
14	Cost of sales (list according to major classes of cost)				
15					
16	Jobbing/Contract Costs				
17	Materials				
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	25,330

SALES FOR RESALE (Account 447)							
Line No.	Sales to: (a)	Statistical Classification (b)	Export Across State Line (c)	Point of Delivery (d)	Sub Station (e)	Kw or Kva of Demand	
						Contract Demand (f)	Avg mo. Maximum Demand (g)
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							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							

SALES FOR RESALE (Account 447) - Continued								
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	
							13	
							14	
							15	
							16	
							17	
							18	
							19	
							20	
							21	
							22	
							23	
							24	
							25	
							26	
							27	
							28	
							29	
							30	
							31	
							32	
							33	
							34	
							35	
							36	
							37	
							38	
							39	
							40	
	TOTALS:	0	0.00	0.00		0.00		41

**PURCHASED POWER (Account 555)  
(EXCEPT INTERCHANGE POWER)**

1. Report power purchased for resale during the year.  
Exclude from this schedule and report on page 56 particulars concerning interchange power transactions during the year.
2. Provide subheadings and classify purchases as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A Cooperatives, and (7) Other Public

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

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

**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 (i)	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)		
60 MINUTES	69 kv	4,578,804	33,581	22,528	91,013	147,122	\$0.0321	1
60 MINUTES	69 kv	25,144	33,716	4,919	1,770	40,405	N/A	2
60 MINUTES	69 kv	1,719,692	222,031	130,857	1,924	354,812	\$0.2063	3
60 MINUTES	69 kv	150,122	4,793	1,002	12	5,807	\$0.0387	4
60 MINUTES	69 kv	1,660,717	49,411	11,132	1,196	61,739	\$0.0372	5
60 MINUTES	69 kv	1,046,606	76,221	7,034	754	84,009	\$0.0803	6
60 MINUTES	69 kv	3,032,579	186,806	20,224	242	207,272	\$0.0683	7
60 MINUTES	69 kv	372,252	24,428	2,492	30	26,950	\$0.0724	8
60 MINUTES	69 kv	8,662,442	744,735	57,827	691	803,253	\$0.0927	9
								10
60 MINUTES	69 kv	0	0	0	14,460	14,460	N/A	11
60 MINUTES	69 kv	0	0	0	382,201	382,201	N/A	12
60 MINUTES	69 kv	0	1,089	0	0	1,089	N/A	13
60 MINUTES	69 kv	0	0	0	1,601,369	1,601,369	N/A	14
		35,027,500	0	1,582,417	0	1,582,417	\$0.0452	15
60 MINUTES	69 kv	2,734,007	0	0	234,372	234,372	\$0.0857	16
		0	0	0	(68,466)	(68,466)	N/A	17
		0	0	0	11,737	11,737	N/A	18
		0	0	0	83,018	83,018	N/A	19
		0	0	0	(17,684)	(17,684)	N/A	20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30
	<b>TOTALS:</b>	<b>59,009,865</b>	<b>1,376,811</b>	<b>1,840,432</b>	<b>2,338,639</b>	<b>5,555,882</b>		<b>31</b>

## 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			Amount of Settlement (h)
					Received (a)	Delivered (f)	Net Difference (g)	
1	NEPEX		LOWELL ROAD	69kv	79,666,140	61,368,420	18,297,720	1,599,844
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
					TOTALS	79,666,140	61,368,420	18,297,720
								1,599,844

## B. Details of Settlement for Interchange Power

Line No.	(i)	Explanation (j)	Amount (k)
13			
14			
15			
16	NEPEX	INTERCHANGE EXPENSE NEPOOL EXPENSE	1,479,871
17			119,973
18			
19			
20			
21			
			TOTAL
			1,599,844

<b>ELECTRIC ENERGY ACCOUNT</b>		
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	SOURCES OF ENERGY	
2	Generation	
3	Steam	
4	Nuclear	
5	Hydro	
6	Other	
7	Total Generation	0
8	Purchases	
9		( In (gross) 79,666,140
10	Interchanges	< Out (gross) 61,368,420
11		( Net (Kwh) 18,297,720
12		( Received
13	Transmission for/by others (wheeling)	< Delivered
14		( Net (Kwh) 0
15	<b>TOTAL</b>	<b>77,307,585</b>
16	DISPOSITION OF ENERGY	
17	Sales to ultimate consumers (including interdepartmental sales)	71,789,882
18	Sales for resale	0
19	Energy furnished without charge	
20	Energy used by the company (excluding station use):	
21	Electric department only	147,507
22	Energy losses	
23	Transmission and conversion losses	1,700,920
24	Distribution losses 4.75%	3,669,276
25	Unaccounted for losses	
26	Total energy losses	5,370,196
27	Energy losses as percent of total on line 6.95%	
28		<b>TOTAL</b> <b>77,307,585</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 Groton**

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	14,131	Wednesday	7	7:00 PM	60 min	7,410,464
30	February	14,337	Monday	9	7:00 PM	60 min	6,853,794
31	March	13,260	Sunday	1	7:00 PM	60 min	6,486,494
32	April	10,760	Wednesday	8	8:00 PM	60 min	5,313,117
33	May	14,768	Wednesday	27	5:00 PM	60 min	5,898,739
34	June	13,640	Tuesday	23	7:00 PM	60 min	6,013,678
35	July	16,426	Wednesday	29	5:00 PM	60 min	7,276,145
36	August	16,635	Tuesday	18	6:00 PM	60 min	7,489,809
37	September	17,961	Wednesday	9	5:00 PM	60 min	6,570,675
38	October	11,045	Sunday	18	8:00 PM	60 min	5,654,629
39	November	11,893	Sunday	29	7:00 PM	60 min	5,828,630
40	December	13,000	Tuesday	29	7:00 PM	60 min	6,511,411
41						<b>TOTAL</b>	<b>77,307,585</b>

<b>GENERATING STATIONS</b>						<b>Pages 58 through 66</b>
<b>GENERATING STATION STATISTICS (Large Stations)</b> (Except Nuclear)						<b>Pages 58-59</b>
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								
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								
2	None							
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								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47				TOTALS		0	0	

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

**SUBSTATIONS**

1. Report below the information called for concerning substations of the respondent as of the end of the year.

2. Substations which serve but one industrial or street railway customer should not be listed hereunder.

3. Substations with capacities of less than 5000 kva, except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.

4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended.

5. Show in columns (i), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

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

Line No.	Name and Location of Substation (a)	Character of Substation (b)	Voltage			Capacity of Substation in kva (In Service) (f)	Number of 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	Lowell Road	Lowell Road	69 KV	13.8 KV		50,000	2	1	Regulated	0	0
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			TOTALS			50,000	2	1			

## OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles -- Beginning of Year	112.811		112.811
2	Added During Year	0.000		0.000
3	Retired During Year	0.000		0.000
4	Miles -- End of Year	112.811	0.00	112.811
5	*			
6				
7				
8	Distribution System Characteristics - AC or DC, Phase, cycles and operating voltages for Light and Power			
9	120/240	1	0	AC
10	240/480	3	0	AC
11	120/208	3	0	AC
12	277/480	3	0	AC
13	7970	1	0	AC
14		3	0	AC
15	2400	3	0	AC

## 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:	4,701	4,995	1,861	64,150
17	Additions during year				
18	Purchased	0	150	48	958
19	Installed	46	0	45	1,650
20	Associated with utility plant acquired				
21	Total Additions	46	150	93	2,608
22	Reductions during year:				
23	Retirements	17	85	118	798
24	Associated with utility plant sold				
25	Total Reductions	17	85	118	798
26	Number at end of year	4,730	5,060	1,836	65,960
27	In stock		163	153	13,165
28	Locked meters on customers' premises				
29	Inactive transformers on system				
30	In customers' use		4,886	1,683	52,795
31	In company's use		11	0	0
32	Number at end of year		5,060	1,836	65,960

\*

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	Wiewel Extension	Fiber Duct	0.470	0.470	2,400	
2	Chapel Hill	do	0.100	0.100	13,800	
3	Lawrence Academy Disp. Plant	PVC	0.160	0.160	13,800	
4	Baker's Coveway	Direct Burial		0.400	2,400	
5	Grainger Extension	do		0.060	2,400	
6	Longley Rd. Ext. - Manderson Ext.	do		0.200	2,400	
7	Gutteridge Extension	do		0.100	2,400	
8	Lawrence Academy Skating Rink	PVC	0.190	0.190	13,800	
9	Allan Friedrich Extension	Direct Burial		0.090	2,400	
10	Kenneth Young Extension	do		0.030	2,400	
11	Lowell Rd. Feeder - Fiber Duct &	do	0.050	0.080	13,800	
12	Baddacook Pond - Kimmens Feeder	do		0.150	2,400	
13	Baddacook Pond - Holland	do		0.230	2,400	
14	North Main Street Baptist Church	Conduit Pipe	0.040	0.040	13,800	
15	Main Street - Harvard Trust		0.030	0.030	13,800	
16	Flavell Road Extension	Direct Burial	1.004	1.000	2,400/13,800	
17	Higley Street - Lawrence Ext.	do		0.250	13,800	
18	Hemlock Park - Gutteridge	do		0.130	2,400/13,800	
19	Burnt Meadow - Black Ext. Plastic Duct	720		0.140	13,800	
20	Paquawket Path	do	0.730	0.730	7,960	
21	Throne Hill Road	do	0.440	0.440	7,960	
22	Valliria Drive	do	0.230	0.230	7,960	
23	Longley Road - Minor	do	0.104	0.104	7,960	
24	Longley Estates - II	do	0.470	0.470	7,960	
25	Nashua Hills	do	0.180	0.180	7,960	
26	Longley Road - Graco	do	0.130	0.130	7,960	
27	Laurel Road	do	0.360	0.360	7,960	
28	Augustine Drive	do	0.210	0.210	7,960	
29	Britt Lane	do	0.210	0.210	7,960	
30	Star House Lane	do	0.170	0.170	7,960	
31	Main Street (Insco)	do	0.080	0.080	15,000	
32	Stone Cleave	do	0.100	0.100	7,960	
33	Throne Hill Lot #27	do	0.040	0.040	7,960	
34	SUBTOTALS		5.498	Miles	7.304	0

\*indicate number of conductors per cable

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	New Pond Road	Plastic Duct	0.500	0.500	7,960	
2	Crosswinds	do	1.580	1.580	7,960	
3	Old Homestead	do	0.280	0.280	7,960	
4	Island Pond Road	do	0.120	0.120	7,960	
5	Fertiledale	do	0.120	0.120	7,960	
6	Old Homestead II	do	0.150	0.150	7,960	
7	Farmers Row	do	0.060	0.060	7,960	
8	Carmichael	do	0.310	0.310	7,960	
9	McLains Woods	do	0.250	0.250	7,960	
10	Crosswinds II	do	1.560	1.560	7,960	
11	Martins Pond Road	do	0.060	0.060	7,960	
12	Castle Drive	do	0.500	0.500	7,960	
13	Regional School	do	0.660	0.660	13,800	
14	Brookfield Drive	do	0.160	0.160	7,960	
15	Fletcher Hill	do	0.280	0.280	7,960	
16	Fitch Bridge Estates	do	0.210	0.210	7,960	
17	Old Carriage Path	do	0.380	0.380	7,960	
18	Martins Pond Road	do	0.580	0.580	7,960	
19	Whiley Road	do	0.150	0.150	7,960	
20	Chicopee Row	do	0.060	0.060	7,960	
21	Castle Drive	do	0.060	0.060	7,960	
22	Main Street - Market	do	0.060	0.060	13,800	
23	Townsend Road - LA Valley	do	0.110	0.110	7,960	
24	Duck Pond Road	do	0.080	0.080	7,960	
25	Willow Dale	do	0.080	0.080	13,800	
26	Carriage Path	do	0.090	0.090	7,960	
27	Groton Woods (LA Combe)	do	0.410	0.410	13,800	
28	Lowell Road (Petapawaug)	do	0.030	0.030	13,800	
29	Castle Drive Lots 19&20	do	0.070	0.070	7,960	
30	Throne Hill Lot 28	do	0.220	0.220	7,960	
31	Cross Winds	do	0.040	0.040	7,960	
32	Watson Way	do	0.090	0.090	7,960	
33	Northwoods	do	0.586	0.410	7,960	
34	Whiley Road	do	0.200	0.200	7,960	
35	Stone Bridge	do	0.080	0.080	7,960	
36	SUBTOTALS		15.674 Miles	17.304	0	

\*indicate number of conductors per cable

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	Hawtree Lane	Plastic Duct	0.177	0.177	7,960	
2	Partidge Berry	Plastic Duct	0.869	0.869	13,800	
3	Meadows Brook	Plastic Duct	0.381	0.381	7,960	
4	Charles Road	Plastic Duct	0.063	0.063	7,960	
5	Common Street	Plastic Duct	0.081	0.081	7,960	
6	Fox Run	Plastic Duct	0.153	0.153	7,960	
7	Brown Lane	Plastic Duct	0.104	0.104	7,960	
8	Groton School	Plastic Duct	0.208	0.208	13,800	
9	N.Main Street	Plastic Duct	0.120	0.120	13,800	
10	Balcom Estates	Plastic Duct	0.221	0.221	7,960	
11	Spencer Circle	Plastic Duct	0.335	0.335	7,960	
12	Chicopee Row	Plastic Duct	0.062	0.062	7,960	
13	Smith Street	Plastic Duct	0.270	0.270	7,960	
14	Reedy Meadow	Plastic Duct	0.131	0.131	7,960	
15	Gay Hill	Plastic Duct	0.114	0.114	7,960	
16	High Street	Plastic Duct	0.033	0.033	7,960	
17	Little Hollow Road	Plastic Duct	0.244	0.244	7,960	
18	Lowell Road	Plastic Duct	0.145	0.145	7,960	
19	Kirk Farm Road	Plastic Duct	0.470	0.470	7,960	
20	Duck Pond Road	Plastic Duct	0.065	0.065	7,960	
21	Maura Lane	Plastic Duct	0.270	0.270	7,960	
22	Sandy Pond Road	Plastic Duct	0.130	0.130	7,960	
23	O'Neil Way	Plastic Duct	0.113	0.113	7,960	
24	River Bend Road	Plastic Duct	0.433	0.433	13,800	
25	Wintergreen Road	Plastic Duct	0.439	0.439	13,800	
26	Carmichael Way	Plastic Duct	0.211	0.211	7,960	
27	Hayden Road	Plastic Duct	0.046	0.046	7,960	
28	Shirley Street	Plastic Duct	0.061	0.061	7,960	
29	Fairway Drive	Plastic Duct	0.031	0.031	7,960	
30	Groton School	Plastic Duct	0.038	0.038	13,800	
31	Lovers Lane	Plastic Duct	0.097	0.097	7,960	
32	Indian Hill Road	Plastic Duct	0.085	0.085	7,960	
33	Kailey Way	Plastic Duct	0.622	0.622	7,960	
34	Sandy Pond Road	Plastic Duct	0.049	0.049	13,800	
35	Dolan Way	Plastic Duct	0.077	0.077	7,960	
36		SUBTOTALS	22.622 Miles	24.252		0

\*indicate number of conductors per cable

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	Boston Road	Plastic Duct	0.159	0.159	7,960	
2	Duck Pond Road	Plastic Duct	0.226	0.226	7,960	
3	Overlook Drive	Plastic Duct	0.097	0.097	7,960	
4	Chicopee Row	Plastic Duct	0.478	0.478	7,960	
5	Kirk Farm Road	Plastic Duct	0.163	0.163	7,960	
6	Nashua Road	Plastic Duct	0.544	0.544	7,960	
7	Acord Path	Plastic Duct	0.054	0.054	7,960	
8	Charles Way	Plastic Duct	0.073	0.073	7,960	
9	Orr Road	Plastic Duct	0.263	0.263	7,960	
10	Skyfield Drive	Plastic Duct	0.029	0.029	7,960	
11	Badacook Woods	Plastic Duct	0.380	0.380	7,960	
12	Bryan Wood	Plastic Duct	0.209	0.209	7,960	
13	Duck Pond	Plastic Duct	0.086	0.086	7,960	
14	Deer Haven	Plastic Duct	0.781	0.781	13,800	
15	Pacer Way	Plastic Duct	0.703	0.703	7,960	
16	Wintergreen	Plastic Duct	0.083	0.083	7,960	
17	Chicopee	Plastic Duct	0.129	0.129	7,960	
18	Burntmeadow	Plastic Duct	0.103	0.103	7,960	
19	Lovers Lane	Plastic Duct	0.075	0.075	7,960	
20	Ames Meadow	Plastic Duct	1.585	1.585	7,960	
21	Rockwood Lane	Plastic Duct	0.262	0.262	7,960	
22	Duck Pond Road	Plastic Duct	0.039	0.039	7,960	
23	Autumn Leaf Drive	Plastic Duct	0.152	0.152	7,960	
24	Boston Road	Plastic Duct	0.217	0.217	7,960	
25	Nicole Drive	Plastic Duct	0.248	0.248	7,960	
26	Burntmeadow	Plastic Duct	0.084	0.084	7,960	
27	Mill Street	Plastic Duct	0.155	0.155	7,960	
28	Integrity Way	Plastic Duct	0.158	0.158	7,960	
29	Hayden Road	Plastic Duct	0.038	0.038	7,960	
30	Northwoods	Plastic Duct	0.104	0.104	7,960	
31	Woodland Park	Plastic Duct	0.394	0.394	7,960	
32	Little Hollow Lane	Plastic Duct	0.046	0.046	7,960	
33						
34						
35						
	SUBTOTALS		30.739 Miles	32.369		0

\*indicate number of conductors per cable

**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	Designation of Underground System	Miles of Conduit Bank (All Sizes and Types)	Underground Cable		Submarine Cable	
			Miles *	Operating Voltage	Feet *	Operating Voltage
No.	(a)	(b)	(c)	(d)	(e)	(f)
1	Forest Drive	Plastic Duct	0.610	0.610	7,960	
2	Autumn Leaf	Plastic Duct	0.078	0.078	7,960	
3	Mayfield Drive	Plastic Duct	0.045	0.045	7,960	
4	Forest Drive	Plastic Duct	0.108	0.108	7,960	
5	West Main St.	Plastic Duct	0.060	0.060	7,960	
6	Hidden Valley Rd	Plastic Duct	0.100	0.100	7,960	
7	Culver Street	Plastic Duct	0.126	0.126	7,960	
8	Farmers Row	Plastic Duct	0.850	0.850	7,960	
9	Northwoods Road	Plastic Duct	0.069	0.069	7,960	
10	Chicopee Row	Plastic Duct	0.357	0.357	13,800	
11	Forge Village Road	Plastic Duct	0.041	0.041	7,960	
12	Chicopee Row	Plastic Duct	0.084	0.084	13,800	
13	West Main St.	Plastic Duct	0.012	0.012	7,960	
14	Longley Road	Plastic Duct	0.153	0.153	7,960	
15	Townsend Road	Plastic Duct	0.179	0.179	7,960	
16	Fire Tower Road	Plastic Duct	0.020	0.020	7,960	
17	Batten Woods	Plastic Duct	0.203	0.203	7,960	
18	Performing Arts Ctr	Plastic Duct	0.077	0.077	13,800	
19	Prescott Street	Plastic Duct	0.320	0.320	7,960	
20	Baddacook	Plastic Duct	0.093	0.093	7,960	
21	Northwoods Ext	Plastic Duct	0.036	0.036	7,960	
22	Still Meadows	Plastic Duct	0.071	0.071	7,960	
23	Martins Pond	Plastic Duct	0.082	0.082	7,960	
24	Twomey Center	Plastic Duct	0.067	0.067	13,800	
25	New School	Plastic Duct	0.064	0.064	13,800	
26	Performing Arts Ctr	Plastic Duct	0.039	0.039	13,800	
27	Mill Run	Plastic Duct	0.055	0.055	13,800	
28	Mill Run	Plastic Duct	0.046	0.046	13,800	
29	Gibbet Hill	Plastic Duct	0.135	0.135	13,800	
30	LA Ball Field	Plastic Duct	0.135	0.135	13,800	
31	100 Whitman	Plastic Duct	0.180	0.180	7,960	
32	McElroy's Farm	Plastic Duct	0.1655	0.166	7,960	
33	Amelia Road	Plastic Duct	0.242	0.242	7,960	
34						
35	SUBTOTALS	miles	35.642	37.272		0

\*indicate number of conductors per cable

**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 *	Operating Voltage	Feet *	Operating Voltage
1	High School	0.059	0.059	7,960		
2	Main Street	0.027	0.027	13,800		
3	Forge Village Road	0.037	0.037	13,800		
4	Boston Road	0.124	0.124	13,800		
5	Boston Road	0.087	0.087	13,800		
6	Boston Road	0.093	0.093	13,800		
7	Boston Road	0.082	0.082	13,800		
8	Sandy Pond Road	0.031	0.031	13,800		
9	Boston Road	0.071	0.071	13,800		
10	Boston Road	0.100	0.100	13,800		
11	Boston Road	0.112	0.112	13,800		
12	Boston Road	0.044	0.044	13,800		
13	Shaws	0.033	0.033	13,800		
14	Cow Pond Brook Rd	0.025	0.025	7,960		
15	Shaws	0.045	0.045	13,800		
16	Kemp Street	0.106	0.106	7,960		
17	Main Street	0.167	0.167	13,800		
18	Lowell Road	0.081	0.081	7,960		
19	Quail Ridge Road	0.289	0.289	7,960		
20	Cherry Tree Lane	0.024	0.024	7,960		
21	Hemlock Park Drive	0.120	0.120	7,960		
22	Amadas Way	0.186	0.186	7,960		
23	Cherry Tree Lane	0.061	0.061	7,960		
24	Seven Hills	0.030	0.030	13,800		
25	Residential Gardens	0.035	0.035	13,800		
26	Robin Hill Road	0.081	0.081	13,800		
27	Shirley Street	0.057	0.057	13,800		
28	Cherry Tree Lane	0.159	0.159	13,800		
29	Cherry Tree Lane	0.030	0.030	13,800		
30	Cherry Tree Lane	0.163	0.163	13,800		
31	West Main Street	0.682	0.682	13,800		
32	Farmers Row	0.379	0.379	13,800		
33	Fieldstone Drive	0.167	0.167	13,800		
34						
35	SUBTOTALS	miles	39.429	41.059		0

\*indicate number of conductors per cable

**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)
1	Fieldstone Drive	Plastic Duct	0.078	0.078	13,800
2	Fieldstone Drive	Plastic Duct	0.095	0.095	13,800
3	Fieldstone Drive	Plastic Duct	0.076	0.076	13,800
4	Fieldstone Drive	Plastic Duct	0.053	0.053	7,960
5	Cherry Tree Lane	Plastic Duct	0.080	0.080	7,960
6	Cherry Tree Lane	Plastic Duct	0.095	0.095	7,960
7	Cherry Tree Lane	Plastic Duct	0.038	0.038	7,960
8	Robin Hill Road	Plastic Duct	0.066	0.066	13,800
9	Cardinal Way	Plastic Duct	0.133	0.133	7,960
10	Robin Hill Road	Plastic Duct	0.472	0.472	13,800
11	Cardinal Way	Plastic Duct	0.058	0.058	7,960
12	Bradley Way	Plastic Duct	0.094	0.094	7,960
13	Mayfield Drive	Plastic Duct	0.063	0.063	7,960
14	Crystal Springs Lane	Plastic Duct	0.084	0.084	7,960
15	Skyfields Drive	Plastic Duct	0.142	0.142	7,960
16	Jenkins Road	Plastic Duct	0.038	0.038	7,960
17	Magnolia Lane	Plastic Duct	0.114	0.114	7,960
18	Magnolia Lane	Plastic Duct	0.114	0.114	13,800
19	Crystal Springs Lane	Plastic Duct	0.047	0.047	7,960
20	Old Ayer Road	Plastic Duct	0.303	0.303	7,960
21	Cherry Tree Lane	Plastic Duct	0.057	0.057	13,800
22	Main Street	Plastic Duct	0.227	0.227	13,800
23	Farmers Row	Plastic Duct	0.369	0.369	13,800
24	Maple Avenue	Plastic Duct	0.047	0.047	7,960
25	Lowell Road	Plastic Duct	0.085	0.085	7,960
26	Old Ayer Road	Plastic Duct	0.085	0.085	13,800
27	Chamberlain Mills La	Plastic Duct	0.132	0.132	7,960
28	Island Pond Road	Plastic Duct	0.037	0.037	7,960
29	Mockingbird Lane	Plastic Duct	0.064	0.064	7,960
30					
31					
32					
33					
34					
35	TOTALS	miles	42.775	44.405	0

\*indicate number of conductors per cable

**STREET LAMPS CONNECTED TO SYSTEM**

Line No.	City or Town (a)	Total (b)	Type							
			Incandescent		Mercury Vapor		Florescent & Quartz		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Groton	240	0	0	0	0	0	0	240	0
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										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										
49										
50										
51										
52	TOTALS	240	0	0	0	0	0	0	240	0

**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
		See Attached Rate Schedules		



## SUMMARY OF RATES

*Rates Effective as of the January 31, 2013 bill*

### BILLING TERMS

#### Customer Charge

Collects some of our costs of providing the basic services, such as meter reading and billing.

#### Distribution Charge

Collects our costs to deliver electricity from our substation to homes and businesses.

#### Generation Charge

Collects our costs for power purchased on the wholesale energy market. Savings associated with the power received from the Power Authority of the State of New York (PASNY) is applied to the first 500 kWh of the Generation Charge for the residential classes. Time of Use (TOU) is separated into three time slots with varying rates—the PASNY savings is applied evenly over the TOU rates.

#### Transmission Charge

Collects our projected costs of purchasing delivery of electricity from the generating plants to our substation

### RATE CODES

C1	Commercial & Industrial
F1	Farm Residential
F2	Farm Commercial
G1	Government
G2	Non Profit
HH	Home Heating (All Electric)
HT	High Tension
R1	Residential
R2*	Residential Solar
R3*	Residential/TOU (T1) Solar
R4*	Residential/Farm Solar
T1	Time of Use < 1000 kWh/month (Residential)
T2	Time of Use > 1000 kWh/month (Residential)
TC	Time of Use Commercial

**Note:** Rate Codes R1 and HH use the same rate schedule. HH was used when there was a separate rate for homes that used all electric heating.

\*Solar Rate Accounts (R2, R3, R4) receive a credit for generation returned to the power grid.

#### PL - Private Lighting Monthly Charge

50-Watt .....	\$4.75
100-Watt .....	\$6.50
175-Watt .....	\$8.75
250-Watt .....	\$12.00
400-Watt .....	\$17.75

Each rate consists of the delivery services (which include the customer charge, distribution charge and transmission charge) as well as the generation charge. There is an early pay discount associated with all rates except the HT rate.

The following shows the total rate per kilowatt hour (kWh) for each rate class:

**R1—Residential | HH—Home Electric (All Electric) | R2—Residential Solar | Customer Charge \$4.25**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc	
0-500 kWh	7.26¢	2.37¢	2.78¢	12.41¢	1.3¢	11.11¢
500 + kWh	8.31¢	2.37¢	2.78¢	13.46¢	1.3¢	12.16¢

**F1—Farm Residential | R4—Residential/Farm Solar | Customer Charge \$4.25**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc	
0-500 kWh	6.64¢	2.17¢	2.4¢	11.21¢	1.2¢	10.01¢
500 + kWh	7.57¢	2.17¢	2.4¢	12.14¢	1.2¢	10.94¢

**C1—Commercial & Industrial | Customer Charge \$7.25**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
9.32¢	2.41¢	3.79¢	15.52¢	1.55¢	13.97¢

## F2—Farm Commercial | Customer Charge \$7.25

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
8.45¢	2.34¢	3.41¢	14.2¢	1.42¢	12.78¢

## G1—Government/Municipalities | Customer Charge \$6.50

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
9.75¢	2.37¢	3.29¢	15.41¢	1.54¢	13.87¢

## G2—Non-Profit | Customer Charge \$5.25

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
9.23¢	2.37¢	2.9¢	14.5¢	1.45¢	13.05¢

## HT—High Tension | Customer Charge \$31.25

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
5.76¢	2.23¢	3.51¢	11.5¢	0.0¢	11.5¢

## T1—Time of Use < 1000 kWh per month | R3—Residential/TOU (T1) Solar | Customer Charge \$4.25

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
11 pm-7 am	4.81¢	2.37¢	2.67¢	9.85¢	1.3¢
7 am-11 am					8.55¢
7 pm-11 pm	7.54¢	2.37¢	2.67¢	12.58¢	1.3¢
11 am-7 pm	9.82¢	2.37¢	2.67¢	14.86¢	1.3¢
					13.56¢

## T2—Time of Use >1000 kWh per month | Customer Charge \$4.25

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
11 pm-7 am	5.16¢	2.37¢	2.67¢	10.2¢	1.3¢
7 am-11 am					8.9¢
7 pm-11 pm	8.04¢	2.37¢	2.67¢	13.08¢	1.3¢
11 am-7 pm	10.44¢	2.37¢	2.67¢	15.48¢	1.3¢
					14.18¢

## TC—Time of Use Commercial | Customer Charge \$7.25

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
11 pm-7 am	7.07¢	2.42¢	3.79¢	13.28¢	1.55¢
7 am-11 am					11.73¢
7 pm-11 pm	9.32¢	2.42¢	3.79¢	15.53¢	1.55¢
11 am-7 pm	11.55¢	2.42¢	3.79¢	17.76¢	1.55¢
					16.21¢

Note: There is a demand penalty of \$5/KW for usage during 2-8 p.m.

If you feel you are being billed under the wrong rate code or would like to switch to a different rate class based on eligibility, please contact Barbara or Tammi at 978-448-1150 to discuss your options.

Two new voluntary rates approved at the September 15, 2014 Board meeting – these rates will be offered at an additional 4 cents per kilowatt hour above our standard residential rate.

### **Green Solar Rate – G3**

MDPU #21

The additional funds collected from this rate will be pooled and used to assist in the funding of solar panels to be placed within the town of Groton.

### **Green Conservation Rate – G4**

MDPU #22

The additional funds collected from this rate will be pooled and used to assist in the funding of electric conservation within the town of Groton.

#### **Supplier Services**

##### **Generation**

1-500 kWh = \$0.1126

>500 kWh = \$0.1231

This charge may be adjusted periodically as described in the “Definitions” section of these rate schedules.

#### **Delivery Services**

##### **Customer Charge**

\$4.25

##### **Transmission Charge**

\$0.0237/kWh plus or minus the Transmission Charge adjustment

##### **Distribution Charge**

\$0.0278/kWh

#### **Discount**

A discount of \$0.013 per kilowatt-hour will be allowed for prompt payment if the bill is paid on or before the discount expiration date as shown on the bill. No discount shall be allowed when arrears are due and unpaid.

Bills for all rates will be adjusted by a Power Cost Adjustment (PCA) charge applied to all kilowatt-hours billed in each month as provided by the Department’s Power Cost Adjustment clause, MDPU #23. The charge may be zero depending on the power costs of the Department.

#### **Power Cost Adjustment**

MDPU #23

A Power Cost Adjustment (PCA) will be added as a separate line item on every bill each month to recoup the increased generation costs associated with higher fuel and power costs. The charge may be zero depending upon power costs incurred by the Department. When the charge is zero, the PCA line item will not print on the bill.

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

..... Mayor

*Kevin P. Kelly*

Kevin Kelly

Manager of Electric Light

*Bruce H. Eason*

Bruce Eason

*Rodney R. Hersh*

Rodney R. Hersh

*K. J. Lindemer*

Kevin J. Lindemer

Selectmen  
or  
Members  
of the  
Municipal  
Light  
Board

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

..... SS

..... 20 .....

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

## INDEX

	Page
Appropriations of Surplus	21
Appropriations Since Beginning of Year	5
Bonds	6
Cash Balances	14
Changes in the Property	5
Combustion Engine and Other Generating Stations	64-65
Comparative Balance Sheet	10-11
Conduit, Underground Cable and Submarine Cable	70
Cost of Plant	8- 8B
Customers in each City or Town	4
Depreciation Fund Account	14
Earned Surplus	12
Electric Distribution Services, Meters, and Line Transformers	69
Electric Energy Account	57
Electric Operating Revenues	37
Electric Operation and Maintenance Expenses	39-42
General Information	3
Generating Station Statistics	58-59
Generating Statistics (Small Stations)	66
Hydroelectric Generating Stations	62-63
Income from Merchandising, Jobbing and Contract Work	51
Income Statement	12
Interchange Power	56
Materials and Supplies	14
Miscellaneous Credits to Surplus	21
Miscellaneous Debits to Surplus	21
Miscellaneous Nonoperating Income	21
Monthly Peaks and Output	57
Municipal Revenues	22
Other Income Deductions	21
Other Utility Operating Income	50
Overhead Distribution Lines Operated	69
Production Fuel and Oil Stocks	18
Purchased Power	22
Purchased Power Detailed (except Interchange)	54-55
Rate Schedule Information	79
Sales for Resale	22
Sales for Resale Detailed	52-53
Sales of Electricity to Ultimate Consumers	38
Schedule of Estimates	4
Signature Page	81
Steam Generating Stations	60-61
Streetlamps	71
Substations	68
Taxes Charged During Year	49
Town Notes	7
Transmission Line Statistics	67
Utility Plant-Electric	15-17

FOR GAS PLANTS ONLY:		Page	Page
Boilers	75	Purifieers	76
Gas Distribution Services, House		Record of Sendout for the Year in MCI	72-73
Governors and Meters	78	Sales for Resale	48
Gas Generating Plant	74	Sales of Gas to Ultimate Customers	44
Gas Operating Revenues	43	Sales of Residuals	48
Gas Operation & Maintenance Expenses	45-47	Scrubbers, Condensers & Exhausters	75
Holders	76	Transmission and Distribution Mains	77
Purchased Gas	48	Utility Plant - Gas	19-20