

**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,**

**2011**

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*

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

Michael A. Salvidio, CPA  
James R. Dube, CPA

## INDEPENDENT ACCOUNTANTS' COMPILATION 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, 2011 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 accompanying financial statements 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 in accordance with requirements 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.

These financial statements are presented in accordance with the requirements of the Massachusetts Department of Public Utilities, which differ from accounting principles generally accepted in the United States of America. This report is intended solely for the information and use of the Massachusetts Department of Public Utilities and is not intended to be and should not be used by anyone other than this specified party.

Goulet, Salvidio & Associates P.C.

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

Worcester, Massachusetts  
March 19, 2012

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**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 as of December 31, 2007:	
Kevin Kelly	c/o GELD - 23 Station Ave   Groton, MA 01450
4. Name and address of mayor or selectmen:	
Peter S. Cunningham	Groton, MA
George F. Dillon Jr.	Groton, MA
Joshua A. Degen	Groton, MA
Anna Eliot	Groton, MA
Stuart Schulman	Groton, MA
5. Name and address of town (or city) treasurer:	
Christine Collins	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:	
Rodney R. Hersh	Groton, MA
Chris Christie	Groton, MA
Kevin J. Lindemer	Groton, MA
8. Total valuation of estates in town (or city) according to last State valuation (taxable)	\$ 1,520,537,750
9. Tax rate for all purposes during the year:	\$16.08
10. Amount of manager's salary:	\$138,550
11. Amount of manager's bond:	\$100,000
12. Amount of salary paid to members of municipal light board (each):	\$0

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	9,770,473
3		9,770,473
4		
<b>5</b>	<b>EXPENSES</b>	
6	For operation, maintenance and repairs	9,254,461
7	For interest on bonds, notes or scrip	
8	For depreciation fund ( 3 %	10,815,540 as per page 8B)
9	For sinking fund requirements	324,466
10	For note payments	
11	For bond payments	54,332
12	For loss in preceding year	
13		9,633,259
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	571,000
19	Of electricity to be used for street lights	28,000
20	Total of above items to be included in the tax levy	599,000
21		
22	New construction to be included in the tax levy	
23	Total amounts to be included in the tax levy	599,000

**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	4,726
		Littleton	7
		Westford	6
		Pepperell	16
<b>TOTAL</b>	<b>0</b>	<b>TOTAL</b>	<b>4,755</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	28,000
2. Municipal buildings	571,000
3.	
	TOTAL _____ 599,000

\* 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		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	42,500	annual	variable	semi-annual	350,660
May 1, 2000	July 15, 2001	750,000					
TOTAL		1,353,860				TOTAL	350,660

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
							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>						
1. Report below the cost of utility plant in service according to prescribed accounts		preceding year. Such items should be included in column (c) or (d) as appropriate.			effect of such amounts.	
2. Do not include as adjustments, corrections of additions and retirements for the current or the		3 . Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative			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)	Retirements (d)	Adjustments (e)	Transfers (f)
1	1. INTANGIBLE PLANT					
2						
3						
4		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
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

## 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					426,953
3	361 Structures and Improvements	188,751					188,751
4	362 Station Equipment	1,477,772	31,623				1,509,395
5	363 Storage Battery Equipment	-					0
6	364 Poles Towers and Fixtures	2,087,106	34,233	(30,421)			2,090,918
7	365 Overhead Conductors and Devices	2,054,549	82,732				2,137,281
8	366 Underground Conduit	357,859	(2,541)				355,318
9	367 Underground Conductors and Devices	489,789	28,871				518,660
10	368 Line Transformers	1,064,555	32,279	(22,467)			1,074,367
11	369 Services	242,599					242,599
12	370 Meters	616,439	2,149				618,588
13	371 Installations on Customer's Premises	17,685	15,157				32,842
14	372 Leased Prop on Customer's Premises	17,393					17,393
15	373 Streetlight and Signal Systems	161,422	(1,139)				160,283
16	Total Distribution Plant	9,202,872	223,364	(52,888)	0	0	9,373,348
17	5. GENERAL PLANT						
18	389 Land and Land Rights	328,726					328,726
19	390 Structures and Improvements	139,509					139,509
20	391 Office Furniture and Equipment	218,684	55,058	(15,427)			258,315
21	392 Transportation Equipment	861,462	226,232	(135,100)			952,594
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					31,004
27	398 Miscellaneous Equipment	55,811	87,857				143,668
28	399 Other Tangible Property	0					0
29	Total General Plant	1,979,251	369,147	(150,527)	0	0	2,197,871
30	Total Electric Plant in Service	11,182,123	592,511	(203,415)	0	0	11,571,219
31					Total Cost of Electric Plant.....		11,571,219
33					Less Cost of Land, Land Rights, Rights of Way.....		755,679
34					Total Cost upon which Depreciation is based .....		10,815,540

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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**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)	7,422,493	7,169,478	(253,015)
3	101	Utility Plant - Gas (P. 20)			0
4					
5		Total Utility Plant	7,422,493	7,169,478	(253,015)
6					
7					
8					
9					
10					
11		<b>FUND ACCOUNTS</b>			
12	125	Sinking Funds			0
13	126	Depreciation Fund (P. 14)	2,710,312	2,751,491	41,179
14	128	Other Special Funds	1,668,536	1,693,154	24,618
15		Total Funds	4,378,848	4,444,645	65,797
16		<b>CURRENT AND ACCRUED ASSETS</b>			
17	131	Cash (P. 14)	139,842	157,277	17,435
18	132	Special Deposits	224,704	242,581	17,877
19	135	Working Funds	500	500	0
20	141	Notes Receivable	0	0	0
21	142	Customer Accounts Receivable	911,842	860,105	(51,737)
22	143	Other Accounts Receivable	98,884	836,314	737,430
23	146	Receivables from Municipality	0	0	0
24	151	Materials and Supplies (P. 14)	492,771	457,168	(35,603)
25					
26	165	Prepayments	943,604	959,982	16,378
27	174	Miscellaneous Current Assets	5,030	4,209	(821)
28		Total Current and Accrued Assets	2,817,177	3,518,136	700,960
29		<b>DEFERRED DEBITS</b>			
30	181	Unamortized Debt Discount			
31	182	Extraordinary Property Losses			
32	185	Other Deferred Debits	116,180	116,180	0
33		Total Deferred Debits	116,180	116,180	0
34					
35		Total Assets and Other Debits	14,734,698	15,248,439	513,741

**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	986,360	1,028,860	42,500
6	207	Appropriations for Construction Repayments	0	0	0
7	208	Unappropriated Earned Surplus (P. 12)	8,013,064	8,378,174	365,110
8		Total Surplus	8,999,424	9,407,034	407,610
9		<b>LONG TERM DEBT</b>			
10	221	Bonds (P. 6)	350,660	308,160	(42,500)
11	231	Notes Payable (P. 7)	0	0	0
12		Total Bonds and Notes	350,660	308,160	(42,500)
13		<b>CURRENT AND ACCRUED LIABILITIES</b>			
14	232	Accounts Payable	979,176	971,036	(8,140)
15	234	Payables to Municipality	0	0	0
16	235	Customers' Deposits	213,361	230,751	17,390
17	236	Taxes Accrued	0	0	0
18	237	Interest Accrued	0	0	0
19	242	Miscellaneous Current and Accrued Liabilities	471,485	529,384	57,899
20		Total Current and Accrued Liabilities	1,664,022	1,731,171	67,149
21		<b>DEFERRED CREDITS</b>			
22	251	Unamortized Premium on Debt	0	0	0
23	252	Customer Advances for Construction	0	0	0
24	253	Other Deferred Credits	16,840	13,584	(3,256)
25		Total Deferred Credits	16,840	13,584	(3,256)
26		<b>RESERVES</b>			
27	260	Reserves for Uncollectible Accounts	0	0	0
28	261	Property Insurance Reserve	129,517	128,352	(1,165)
29	262	Injuries and Damages Reserves	0	0	0
30	263	Pensions and Benefits Reserves	0	0	0
31	265	Miscellaneous Operating Reserves	1,539,019	1,553,613	14,594
32		Total Reserves	1,668,536	1,681,965	13,429
33		<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>			
34	271	Contributions in Aid of Construction	2,035,216	2,106,525	71,309
35		Total Liabilities and Other Credits	14,734,698	15,248,439	(14,734,698)

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)	9,572,631	166,811
3	Operating Expenses:		
4	401 Operation Expense (p. 42 and 47)	8,235,530	929
5	402 Maintenance Expense	744,190	39,321
6	403 Depreciation Expense	312,795	12,001
7	407 Amortization of Property Losses	0	0
8			
9	408 Taxes (P. 49)	0	0
10	Total Operating Expenses	9,292,515	52,251
11	Operating Income	280,116	114,560
12	414 Other Utility Operating Income (P. 50)	0	0
13			
14	Total Operating Income	280,116	114,560
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	24,349	2,740
17	419 Interest Income	38,332	13,266
18	421 Miscellaneous Nonoperating Income (P. 21)	336,401	330,421
19	Total Other Income	399,082	346,427
20	Total Income	679,198	460,987
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization	0	0
23	426 Other Income Deductions	231,014	231,014
24	Total Income Deductions	231,014	231,014
25	Income Before Interest Charges	448,184	229,973
26	<b>INTEREST CHARGES</b>		
27	427 Interest on Bonds and Notes	9,001	(11,490)
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	1,573	426
31	432 Interest: Charged to Construction - Credit	0	0
32	Total Interest Charges	10,574	(11,064)
33	<b>NET INCOME</b>	437,610	241,037
<b>EARNED SURPLUS</b>			
Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period)		8,013,064
35			
36			
37	433 Balance Transferred from Income	0	437,610
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)	72,500	
41	437 Surplus Applied to Depreciation		
42	208 Unappropriated Earned Surplus (at end of period)	8,378,174	
43			
44	<b>TOTALS</b>	8,450,674	8,450,674

<b>CASH BALANCES AT END OF YEAR</b>		
Line No.	Items (a)	Amount (b)
1	Operation Fund	157,277
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
	<b>TOTAL</b>	<b>157,277</b>

**MATERIALS AND SUPPLIES (Accounts 151-159, 163)****Summary per Balance Sheet**

Line No.	Account (a)	Amount End of Year	
		Electric (b)	Gas (c)
13	Fuel (Account 151 ) (See Schedule, Page 25)		
14	Fuel Stock Expenses (Account 152)		
15	Residuals (Account 153)		
16	Plant Materials and Operating Supplies (Account 154 (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	457,168	0

**DEPRECIATION FUND ACCOUNT (Account 126)**

Line No.	(a)	Amount (b)
24	<b>DEBITS</b>	
25	Balance of account at beginning of year	2,710,312
26	Income during year from balance on deposit (interest)	17,225
27	Amount transferred from income (depreciation)	312,795
28		
29		<b>TOTAL</b> 3,040,332
30	<b>CREDITS</b>	
31	Amount expended for construction purposes (Sec. 57,C.164 of G.L.)	240,000
32	Amounts expended for renewals,viz:-	
33	Power Contract Settlement	
34	Amount expended for bond payment	48,841
35		
36		
37		
38		
39	Balance on hand at end of year	2,751,491
40		<b>TOTAL</b> 3,040,332

		UTILITY PLANT - ELECTRIC					
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		3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative			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	0	0			426,953
3	361 Structures and Improvements	64,537	0	5,663			58,874
4	362 Station Equipment	870,200	31,623	44,333			857,490
5	363 Storage Battery Equipment	0	0	0			0
6	364 Poles Towers and Fixtures	510,858	34,233	62,613			482,478
7	365 Overhead Conductors and Devices	1,203,711	82,732	61,636		8,717	1,233,524
8	366 Underground Conduit	262,890	(2,541)	10,736			249,613
9	367 Underground Conductors and Devices	378,686	28,871	14,694			392,863
10	368 Line Transformers	633,611	32,279	31,937		(8,717)	625,236
11	369 Services	56,267	0	7,278			48,989
12	370 Meters	586,409	2,149	18,493			570,065
13	371 Installations on Customer's Premises	17,685	15,157	531			32,311
14	372 Leased Prop on Customer's Premises	(522)	0	522		(522)	(1,566)
15	373 Streetlight and Signal Systems	10,994	(1,139)	4,843		522	5,534
16	Total Distribution Plant	5,022,279	223,364	263,279	0	0	4,982,364
17	5. GENERAL PLANT						
18	389 Land and Land Rights	328,726	0	0			328,726
19	390 Structures and Improvements	11,656	0	4,185			7,471
20	391 Office Furniture and Equipment	111,138	55,058	6,561			159,635
21	392 Transportation Equipment	813,170	226,232	25,844			1,013,558
22	393 Stores Equipment	15,637	0	624			15,013
23	394 Tools, Shop and Garage Equipment	37,860	0	2,439			35,421
24	395 Laboratory Equipment	15,634	0	825			14,809
25	396 Power Operated Equipment	132,849	0	6,434			126,415
26	397 Communication Equipment	9,463	0	930			8,533
27	398 Miscellaneous Equipment	40,069	87,857	1,674			126,252
28	399 Other Tangible Property	0	0	0			0
29	Total General Plant	1,516,202	369,147	49,516	0	0	1,835,833
30	Total Electric Plant in Service	6,538,481	592,511	312,795	0	0	6,818,197
31	104 Utility Plant Leased to Others	0					0
32	105 Property Held for Future Use	0					0
33	107 Construction Work in Progress	884,012	(532,731)				351,281
34	Total Utility Plant Electric	7,422,493	59,780	312,795	0	0	7,169,478

## 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			
			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	3,520
2	Disaster Recovery Income	196,854
3	Income Earned under Contracts	136,027
4		
5		
6		
	<b>TOTAL</b>	336,401
<b>OTHER INCOME DEDUCTIONS (Account 426)</b>		
Line No.	Item (a)	Amount (b)
7	Disaster Recovery Expense	231,014
8		
9		
10		
11		
12		
13		
14		
	<b>TOTAL</b>	231,014
<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		
25		
26		
27		
28		
29		
30		
31		
32		
	<b>TOTAL</b>	0
<b>APPROPRIATIONS OF SURPLUS (Account 436)</b>		
Line No.	Item (a)	Amount (b)
33	Payment to Town in Lieu of Taxes	30,000
34	Loan Repayments	42,500
35		
36		
37		
38		
39		
40		
	<b>TOTAL</b>	72,500

<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)	3,978,336	550,595	0.1384
6					
7					
8					
9					
10					
11					
12					
13	444-1	Street Lighting	<b>TOTALS</b>	3,978,336	550,595
14				132,174	17,800
15					0.1347
16					
17					
18			<b>TOTALS</b>	132,174	17,800
19			<b>TOTALS</b>	4,110,510	568,395
					0.1383
<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)
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)	Amount (d)
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.		<b>ELECTRIC OPERATING REVENUES (Account 400)</b>					
2. If increases and decreases are not derived from previously reported figures, explain any inconsistencies.		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.					
3. Number of customers should be reported on the basis of meters, plus number of late rate accounts except where separate							
Line No.	Account (a)	<b>Operating Revenues</b>		<b>Kilowatt-hours Sold</b>		<b>Average Number of Customers per Month</b>	
		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	5,276,187	(9,566)	43,519,878	100,254	4,122	0
3	442 Commercial and Industrial Sales					0	0
4	Small Commercial B Sales	1,900,496	17,434	13,560,661	122,042	334	0
5	Large Commercial C Sales	1,392,357	31,413	9,922,500	336,700	3	0
6	444 Municipal Sales	568,395	(5,561)	4,110,510	(35,351)	57	0
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	110,818	14,154	821,780	107,564	33	0
11	<b>Total Sales to Ultimate Consumers</b>	9,248,253	47,874	71,935,329	631,209	4,549	0
12	447 Sales for Resale		0	0	0	0	0
13	<b>Total Sales of Electricity*</b>	9,248,253	47,874	71,935,329	631,209	4,549	0
14	<b>OTHER OPERATING REVENUES</b>						
15	450 Forfeited Discounts	151,248	(3,586)				
16	451 Miscellaneous Service Revenues	19,709	(6,313)				
17	453 Sales of Water and Water Power	0	0				
18	454 Rent from Electric Property	153,421	128,836				
19	455 Interdepartmental Rents	0	0				
20	456 Other Electric Revenues		0				
21							
22							
23							
24							
25	Total Other Operating Revenues	324,378	118,937				
26	Total Electric Operating Revenue	9,572,631	166,811				

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

Total KWH to which applied 71,935,329

## 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.

<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES</b>			
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

<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>	0	0
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	5,785,046	(89,691)
27	556 System control and load dispatching	0	0
28	557 Other expenses	0	0
29	Total other power supply expenses	5,785,046	(89,691)
30	Total power production expenses	5,785,046	(89,691)
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	1,119,758	(4,220)
39	566 Miscellaneous transmission expenses	0	0
40	567 Rents	0	0
41	Total Operation	1,119,758	(4,220)
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	1,119,758	(4,220)

<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		0
4	581 Load dispatching (Operation Labor) Transportation	22,723	(28,377)
5	582 Station expenses	4,875	2,226
6	583 Overhead line expenses	25,080	(7,504)
7	584 Underground line expenses	8,987	5,130
8	585 Street lighting and signal system expenses	0	0
9	586 Meter expenses	30	(606)
10	587 Customer installations expenses	0	0
11	588 Miscellaneous distribution expenses	8,405	(137)
12	589 Rents	704	(234)
13	Total operation	70,804	(29,502)
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	716,991	33,381
19	594 Maintenance of underground lines	3,027	2,134
20	595 Maintenance of line transformers	73	73
21	596 Maintenance of street lighting and signal systems	2,160	(1,004)
22	597 Maintenance of meters	1,044	1,004
23	598 Maintenance of miscellaneous distribution plant	0	(447)
24	Total maintenance	723,295	35,141
25	Total distribution expenses	794,099	5,639
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	Operation:		
28	901 Supervision	0	0
29	902 Meter reading expenses	77,414	2,487
30	903 Customer records and collection expenses	294,259	56,213
31	904 Uncollectible accounts	3,668	(528)
32	905 Miscellaneous customer accounts expenses	1,716	(376)
33	Total customer accounts expenses	377,057	57,796
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	14,031	(3,338)
40	Total sales expenses	14,031	(3,338)
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	Operation:		
43	920 Administrative and general salaries	139,836	10,581
44	921 Office supplies and expenses	35,927	8,169
45	922 Administrative expenses transferred - Cr	0	0
46	923 Outside services employed	38,212	(328)
47	924 Property insurance	39,587	(684)
48	925 Injuries and damages	9,186	(4,415)
49	926 Employee pensions and benefits	579,349	57,417
50	928 Regulatory commission expenses	0	0
51	929 Store Expense	0	0
52	930 Miscellaneous general expenses	26,737	(856)
53	931 Rents	0	0
54	Total operation	868,834	69,884

<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	20,895	4,180	
4	Total administrative and general expenses	889,729	74,064	
5	Total Electric Operation and Maintenance Expenses	8,979,720	40,250	
<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	5,785,046	0	5,785,046
13	Total power production expenses	5,785,046		5,785,046
14	Transmission Expenses	1,119,758		1,119,758
15	Distribution Expenses	70,804	723,295	794,099
16	Customer Accounts Expenses	377,057		377,057
17	Sales Expenses	14,031		14,031
18	Administrative and General Expenses	868,834	20,895	889,729
19	Total Electric Operation and Maintenance Expenses	8,235,530	744,190	8,979,720.00
21	Ratio of operating expenses to operating revenues (carry out decimal two places, (e.g.. 0.00%))		97.07%	
	Compute by dividing Revenues (Acct 400) into the sum of Operation and Maintenance Expenses (Page 42, line 20 (d), Depreciation (Acct 403) and Amortization (Acct 407)			
22	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts.		\$1,069,662	
23	Total number of employees of electric department at end of year including administrative, operating, maintenance, construction and other employees (including part-time employees)		12	



<b>OTHER UTILITY OPERATING INCOME (Account 414)</b>					
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					
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39					
40					
41					
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				24,349
5	Commissions				0
6	Other (list according to major classes)				0
7					
8					
9					
10	Total Revenues	0	0	0	24,349
11					
12					
13	Costs and Expenses:				
14	Cost of sales (list according to major classes of cost)				
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	24,349

**SALES FOR RESALE (Account 447)**

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

2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Municipalities, (4) R.E.A. Cooperatives, and (5) Other Public Authorities. For each sale designate statistical classification in column (b), thus: firm power, FP; dump or surplus power, DP; other, G, and place and "x" in column (c) if sale involves export across a state line.

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

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

## SALES FOR RESALE (Account 447) - Continued

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

integrated).

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

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

8. If a contract covers several points of delivery and small amounts of electric energy are delivered at each point, such 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	
							13	
							14	
							15	
							16	
							17	
							18	
							19	
							20	
							21	
							22	
							23	
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							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	3,397,821	22,529	16,717	48,260	87,506	\$0.0258	1
60 MINUTES	69 kv	0	0		14,987	14,987	N/A	2
60 MINUTES	69 kv	30,992	33,659	5,234	2,087	40,980	\$1.3223	3
60 MINUTES	69 kv	1,201,809	100,844	81,527	2,724	185,095	\$0.1540	4
60 MINUTES	69 kv	132,362	18,058	1,106	38	19,202	\$0.1451	5
60 MINUTES	69 kv	1,456,666	140,901	8,106	933	149,940	\$0.1029	6
60 MINUTES	69 kv	918,008	80,375	5,122	589	86,086	\$0.0938	7
60 MINUTES	69 kv	2,673,832	253,641	22,287	777	276,705	\$0.1035	8
60 MINUTES	69 kv	328,215	33,264	2,738	95	36,097	\$0.1100	9
60 MINUTES	69 kv	7,637,459	896,959	63,746	2,219	962,924	\$0.1261	10
								11
60 MINUTES	69 kv	0	0	0	15,460	15,460	N/A	12
60 MINUTES	69 kv	0	0	0	217,817	217,817	N/A	13
60 MINUTES	69 kv	0	0	0	0	0	N/A	14
60 MINUTES	69 kv	0	0	0	958	958	N/A	15
60 MINUTES	69 kv	0	0	0	815,841	815,841	N/A	16
		34,543,588		1,759,213		1,759,213	\$0.0509	17
60 MINUTES	69 kv	1,298,771			355,009	355,009	\$0.2733	18
		6,850,312			14,594	14,594	N/A	19
					(101,342)	(101,342)	N/A	20
					304,039	304,039	\$0.0444	21
					69,662	69,682		22
								23
								24
								25
								26
								27
								28
								29
								30
	TOTALS:	60,469,835	1,580,230	1,965,796	1,764,747	5,310,793		31

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

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

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

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

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

A. Summary of Interchange According to Companies and Points of Interchange									
Line No.	Name of Company (a)	Inter-change Across State Lines (b)	Point of Interchange (c)	Voltage at Which Inter-changed (d)	Kilowatt-hours			Amount of Settlement (h)	
					Received (a)	Delivered (f)	Net Difference (g)		
1	NEPEX		LOWELL ROAD	69kv	72,713,100	57,647,020	15,066,080	1,594,011	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
					TOTALS	72,713,100	57,647,020	15,066,080	1,594,011

## B. Details of Settlement for Interchange Power

13 14 15 (i)	Explanation (j)	Amount (k)
16 NEPEX	INTERCHANGE EXPENSE	1,482,626
17 NEPOOL EXPENSE		111,385
18		
19		
20		
21		
	TOTAL	1,594,011

**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	SOURCES OF ENERGY	
2	Generation	
3	Steam	
4	Nuclear	
5	Hydro	
6	Other	
7	Total Generation	0
8	Purchases	60,469,835
9		( In (gross) 72,713,100
10	Interchanges	< Out (gross) 57,647,020
11		( Net (Kwh) 15,066,080
12		( Received
13	Transmission for/by others (wheeling)	< Delivered
14		( Net (Kwh) 0
15	<b>TOTAL</b>	<b>75,535,915</b>
16	DISPOSITION OF ENERGY	
17	Sales to ultimate consumers (including interdepartmental sales)	71,935,329
18	Sales for resale	0
19	Energy furnished without charge	
20	Energy used by the company (excluding station use):	
21	Electric department only	109,295
22	Energy losses	
23	Transmission and conversion losses	1,511,980
24	Distribution losses 2.62%	1,979,311
25	Unaccounted for losses	
26	Total energy losses	3,491,291
27	Energy losses as percent of total on line 26 4.62%	
28		<b>TOTAL</b> <b>75,535,915</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	13,957	Monday	24	8:00 PM	60 min	7,329,525
30	February	13,997	Wednesday	2	7:00 PM	60 min	6,153,205
31	March	10,404	Thursday	3	8:00 PM	60 min	5,748,746
32	April	9,075	Monday	4	8:00 PM	60 min	5,449,654
33	May	11,796	Tuesday	3	6:00 PM	60 min	5,848,339
34	June	15,338	Wednesday	8	7:00 PM	60 min	6,093,501
35	July	18,578	Friday	22	2:00 PM	60 min	7,496,623
36	August	14,693	Monday	8	5:00 PM	60 min	6,904,237
37	September	13,182	Monday	26	8:00 PM	60 min	6,106,830
38	October	11,374	Monday	10	8:00 PM	60 min	5,705,951
39	November	11,154	Monday	7	7:00 PM	60 min	5,912,867
40	December	11,763	Sunday	18	7:00 PM	60 min	6,786,437
41						<b>TOTAL</b>	<b>75,535,915</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

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								
2	None							
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
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21								
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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											
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		
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	111.849		111.849
2	Added During Year	0.023		0.023
3	Retired During Year	0.000		0.000
4	Miles -- End of Year	111.872	0.00	111.872
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:	4,575	5,104	1,791	62,788
17	Additions during year				
18	Purchased		9	25	528
19	Installed	38	0		
20	Associated with utility plant acquired				
21	Total Additions	38	9	25	528
22	Reductions during year:				
23	Retirements	10	60	26	855
24	Associated with utility plant sold				
25	Total Reductions	10	60	26	855
26	Number at end of year	4,603	5,053	1,790	62,461
27	In stock		284	117	7,300
28	Locked meters on customers' premises				
29	Inactive transformers on system				
30	In customers' use		4,755	1,673	55,161
31	In company's use		14		
32	Number at end of year		5,053	1,790	62,461

\*

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 Friedrick 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	Fertledale	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	Partridge 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	35.640	37.270
					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
			Miles * (c)	Operating Voltage (d)	Feet * Operating Voltage (e) (f)
1	High School	Plastic Duct	0.059	0.059	7,960
2	Main Street	Plastic Duct	0.027	0.027	13,800
3	Forge Village Road	Plastic Duct	0.037	0.037	13,800
4	Boston Road	Plastic Duct	0.124	0.124	13,800
5	Boston Road	Plastic Duct	0.087	0.087	13,800
6	Boston Road	Plastic Duct	0.093	0.093	13,800
7	Boston Road	Plastic Duct	0.082	0.082	13,800
8	Sandy Pond Road	Plastic Duct	0.031	0.031	13,800
9	Boston Road	Plastic Duct	0.071	0.071	13,800
10	Boston Road	Plastic Duct	0.100	0.100	13,800
11	Boston Road	Plastic Duct	0.112	0.112	13,800
12	Boston Road	Plastic Duct	0.044	0.044	13,800
13	Shaws	Plastic Duct	0.033	0.033	13,800
14	Cow Pond Brook Rd	Plastic Duct	0.025	0.025	7,960
15	Shaws	Plastic Duct	0.045	0.045	13,800
16	Kemp Street	Plastic Duct	0.106	0.106	7,960
17	Main Street	Plastic Duct	0.167	0.167	13,800
18	Lowell Road	Plastic Duct	0.081	0.081	7,960
19	Quail Ridge Road	Plastic Duct	0.289	0.289	7,960
20	Cherry Tree Lane	Plastic Duct	0.024	0.024	7,960
21	Hemlock Park Drive	Plastic Duct	0.120	0.120	7,960
22	Amadas Way	Plastic Duct	0.186	0.186	7,960
23	Cherry Tree Lane	Plastic Duct	0.061	0.061	7,960
24	Seven Hills	Plastic Duct	0.030	0.030	13,800
25	Residential Gardens	Plastic Duct	0.035	0.035	13,800
26	Robin Hill Road	Plastic Duct	0.081	0.081	13,800
27	Shirley Street	Plastic Duct	0.057	0.057	13,800
28	Cherry Tree Lane	Plastic Duct	0.159	0.159	13,800
29	Cherry Tree Lane	Plastic Duct	0.030	0.030	13,800
30	Cherry Tree Lane	Plastic Duct	0.163	0.163	13,800
31	West Main Street	Plastic Duct	0.682	0.682	13,800
32	Farmers Row	Plastic Duct	0.379	0.379	13,800
33	Fieldstone Drive	Plastic Duct	0.167	0.167	13,800
34					
35	SUBTOTALS	miles	39.427	41.057	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	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	
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34						
35	TOTALS	miles	40.828	42,458		0

\*indicate number of conductors per cable

**STREET LAMPS CONNECTED TO SYSTEM**

Line No.	City or Town (a)	Total (b)	Type							
			Incandescent		Mercury Vapor		Fluorescent & Quartz		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Groton	232							232	0
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52	TOTALS	232	0	0	0	0	0	0	232	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 new rate schedule attached		



## SUMMARY OF RATES

*Rates Effective as of the August 31, 2011 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

**T1** Time of Use < 1000 kWh/month (Residential)

**T2** Time of Use > 1000 kWh/month (Residential)

**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.

#### PL - Private Lighting Monthly Charge

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

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 Heating (All Electric) | Customer Charge \$5.25

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
0-500 kWh	8.35¢	1.95¢	2.1¢	12.4¢	1.3¢
500 + kWh	9.4¢	1.95¢	2.1¢	13.45¢	1.3¢

#### F1—Farm Residential | Customer Charge \$5.25

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
0-500 kWh	7.511¢	1.787¢	1.892¢	11.19¢	1.2¢
500 + kWh	8.451¢	1.787¢	1.892¢	12.13¢	1.2¢

**C1—Commercial & Industrial | Customer Charge \$8.25**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
10.534¢	1.989¢	2.987¢	15.51¢	1.55¢	13.96¢

**F2—Farm Commercial | Customer Charge \$8.25**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
9.575¢	1.927¢	2.688¢	14.19¢	1.42¢	12.77¢

**G1—Government/Municipalities | Customer Charge \$7.50**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
11.028¢	1.95¢	2.423¢	15.4¢	1.54¢	13.86¢

**G2—Non-Profit | Customer Charge \$6.25**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
10.44¢	1.95¢	2.1¢	14.49¢	1.45¢	13.04¢

**HT—High Tension | Customer Charge \$32.25**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
6.505¢	1.834¢	3.26¢	11.6¢		11.6¢

**T1—Time of Use < 1000 kWh per month | Customer Charge \$5.25**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
11 pm-7 am	5.799¢	1.949¢	2.1¢	9.849¢	1.3¢
7-11 am/pm	8.529¢	1.949¢	2.1¢	12.579¢	1.3¢
11 am-7 pm	10.809¢	1.949¢	2.1¢	14.859¢	1.3¢

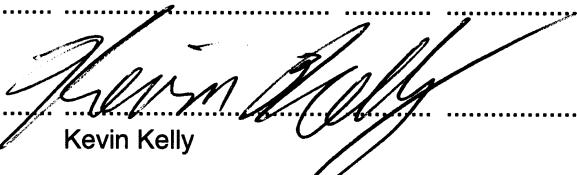
**T2—Time of Use >1000 kWh per month | Customer Charge \$5.25**

Generation	Transmission	Distribution	Total Rate	Early Pay Discount	Total Rate with Early Pay Disc
11 pm-7 am	6.149¢	1.949¢	2.1¢	10.199¢	1.3¢
7-11 am/pm	9.029¢	1.949¢	2.1¢	13.079¢	1.3¢
11 am-7 pm	11.429¢	1.949¢	2.1¢	15.479¢	1.3¢

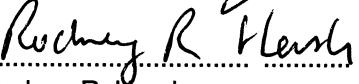
If you feel you are being billed under the wrong rate code or would like to switch to a different rate class based on eligibility, please contact Barbara or Tammi at 978-448-1150 to discuss your options.

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

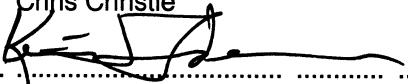
..... Mayor

  
Kevin Kelly

..... Manager of Electric Light

  
Rodney R. Hersh

  
Chris Christie

  
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

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