

**The Commonwealth of Massachusetts**

**Return**

**of the**

**Municipal Light Department of  
the Town of Middleton**

**to the**

**Department of Public Utilities  
of Massachusetts**

**For the Year ended December 31,**

**2018**

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

Official Title: Manager

Michael Cloutier

Office Address:

197 North Main Street  
Middleton, MA 01949

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**FOR GAS PLANTS ONLY:**

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## GENERAL INFORMATION

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1. Name of town (or city) making this report.	Middleton
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, ; No,      Second vote: Yes, ; No, Date when town (or city) began to sell electricity,	Electric   October 14, 1912
3. Name and address of manager of municipal lighting: Michael Cloutier, 197 N. Main Street, Middleton, MA 01949	
4. Name and address of mayor or selectmen Brian Cresta, 5 Ogden Lane, Middleton, MA 01949 Timothy Houten, 47 Lake Street, Middleton, MA 01949 Todd Moreschi, 34 N. Liberty Street, Middleton, MA 01949 Konstantinus Prentakis, 7 Vera Road, Middleton, MA 01949 Rick Kassiotis, 201 Forest Street, Middleton, MA 01949	
5. Name and address of town (or city) treasurer: Belinda Young, 7 Butler Street, Newburyport, MA 01950	
6. Name and address of town (or city) clerk: Ilene Twiss, 23 Webb Street, Middleton, MA 01949	
7. Names and addresses of members of municipal light board: Charles Clinch III, Walnut Lane, Middleton, MA 01949 James Carbone, 16 Liberty Street, Middleton, MA 01949 Timothy Houten, 47 Lake Street, Middleton, MA 01949 Frank Twiss, 23 Webb Street, Middleton, MA 01949 James Kelley, 14 Highland Road, Middleton, MA 01949	
8. Total valuation of estates in town (or city) according to last state valuation	\$2,097,459,635
9. Tax rate for all purposes during the year:	\$13.69
10. Amount of manager's salary:	\$183,859
11. Amount of manager's bond:	\$0
12. Amount of salary paid to members of municipal light board (each)	\$1,000

**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**

<b>INCOME FROM PRIVATE CONSUMERS:</b>		
1	FROM SALES OF GAS.....	
2	FROM SALE OF ELECTRICITY .....	\$14,000,000.00
3	FROM RATE STABILIZATION FUND.....	\$200,000.00
4	<b>TOTAL</b>	<b>\$14,200,000.00</b>
5	<b>Expenses:</b>	
6	For operation, maintenance and repairs.....	\$13,000,000.00
7	For interest on bonds, notes or scrip.....	
8	For depreciation fund ( 3% on \$ 22,120,546 as per page 8B ).....	\$663,616.00
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	
12	For loss in preceding year.....	
13	<b>TOTAL</b>	<b>\$13,663,616.00</b>
14		
15	<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.....	\$180,000.00
19	Of electricity to be used for street lights.....	\$30,000.00
20	Total of the above items to be included in the tax levy.....	\$220,000.00
21		
22	New construction to be included in the tax levy.....	
23	Total amounts to be included in the tax levy.....	\$220,000.00

**CUSTOMERS**

Names of cities of towns in which the plant supplies GAS, with the number of customers' meters in each		Names of cities of towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each	
City or Town	Number of Customers' Meters, December 31.	City or Town	Number of Customers' Meters, December 31.
	None	Middleton	3,780
		<b>TOTAL</b>	<b>3,780</b>

**APPROPRIATIONS SINCE BEGINNING OF YEAR**

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

**FOR CONSTRUCTION OR PURCHASE OF PLANT:**

* At	meeting	19	, to be paid from {	\$	0.00
* At	meeting	19	, to be paid from {	\$	0.00

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

1. Street Lights.....	\$	30,000.00
2. Municipal Buildings.....		190,000.00
	\$	220,000.00

\*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.

None

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
			Amounts	When Payable	Rate	When Payable	
Oct. 14, 1912	Dec. 13, 1914	\$4,500.00					
May 17, 1977	Jun. 6, 1978	\$140,000.00					
May 10, 1988	Dec. 5, 1989	\$2,000,000.00					
May 14, 2002	Jan. 15, 2003	\$625,000.00					
	Total	\$2,769,500.00	\$0.00				0.00

The bonds and notes outstanding at the end of the 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

Annual Report Town of Middleton Municipal Light Department

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

When Authorized	Date of Issue	Amount of Original Issue	Period of Payments		Interest		Amount of Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
May 8, 1984	March 26, 1986	\$350,000.00					0.00
TOTAL		\$350,000.00					\$0.00

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





**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	<b>Total Hydraulic Production Plant</b>	\$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	<b>Total Other Production Plant</b>	\$0	\$0	\$0	\$0	\$0	\$0
19	<b>Total Production Plant</b>	\$0	\$0	\$0	\$0	\$0	\$0
20	3. Transmission Plant						
21	350 Land and Land Rights.....	\$3,295					\$3,295
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.....	\$15,877					\$15,877
27	356 Overhead Conductors and Devices...	\$64,268					\$64,268
28	357 Underground Conduits.....						
29	358 Underground Conductors and Devices						
30	359 Roads and Trails.....						
31	<b>Total Transmission Plant</b>	\$83,440	\$0	\$0	\$0	\$0	\$83,440

TOTAL COST OF PLANT - ELECTRIC (Continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	<b>4. DISTRIBUTION PLANT</b>						
2	360 Land and Land Rights	\$1,990,984	\$45,790				\$2,038,774
3	361 Structures and Improvements	\$12,716	\$2,450				\$16,166
4	362 Station Equipment	\$3,473,065	\$15,833	\$1,000			\$3,487,898
5	363 Storage Battery Equipment	\$9,252	\$0				\$9,252
6	364 Poles, Towers and Fixtures	\$1,575,210	\$32,484	\$12,000			\$1,595,704
7	365 Overhead Conductors and Devices	\$4,052,484	\$418,816	\$40,000			\$4,431,100
8	366 Underground Conducts	\$193,697	\$8,312				\$202,009
9	367 Underground Conductors & Devices	\$3,771,939	\$118,316	\$5,000			\$3,885,255
10	368 Line Transformers	\$2,189,128	\$162,121	\$30,000			\$2,321,249
11	369 Services	\$498,583	\$0				\$498,583
12	370 Meters	\$813,074	\$49,631	\$20,000			\$842,705
13	371 Installation on Cust's Premises	\$7,455	\$0				\$7,455
14	372 Leased Prop. on Cust's Premises	\$93,794	\$0				\$93,794
15	373 Street Light and Signal Systems	\$749,143	\$2,769	\$25,000			\$726,912
16	Total Distribution Plant	<u>\$19,430,624</u>	<u>\$866,332</u>	<u>\$133,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$20,163,856</u>
17	<b>5. GENERAL PLANT</b>						
18	389 Land and Land rights	\$179,800	\$0				\$179,800
19	390 Structures and Improvements	\$1,260,212	\$10,580				\$1,270,792
20	391 Office Furniture and Equipment	\$430,959	\$2,288	\$1,000			\$432,247
21	392 Transportation Equipment	\$1,510,888	\$95,058	\$25,000			\$1,580,946
22	393 Stores Equipment	\$33,322	\$0				\$33,322
23	394 Tools, Shop and Garage Equipment	\$395,601	\$58,330	\$1,000			\$452,931
24	395 Laboratory Equipment	\$17,171	\$0				\$17,171
25	396 Power Operated Equipment	\$6,743	\$0				\$6,743
26	397 Communication Equipment	\$97,932	\$8,112	\$5,000			\$101,044
27	398 Miscellaneous Equipment	\$28,123	\$0				\$28,123
28	399 Other Tangible Property						
29	Total General Plant	<u>\$3,960,761</u>	<u>\$174,368</u>	<u>\$32,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$4,103,159</u>
30	Total Electric Plant in Service	<u>\$23,474,715</u>	<u>\$1,030,700</u>	<u>\$165,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$24,340,415</u>
31	<b>TOTAL COST OF PLANT.....</b>						
32							<u>\$2,219,869</u>
33	Less Cost of Land, Land Rights, and Rights of Way						
34	Total Cost upon which depreciation is based						<u>\$22,120,546</u>

The above figures should show the original cost of existing property. In case any part of the property is sold or retired, the cost of such property should be deducted from the cost of the plant. The net cost of the property, less the land values, should be taken as a basis for figuring depreciation.

COMPARATIVE BALANCE SHEET Assets and Other Debits				
Line No.	Title of Account  (a)	Balance Beginning of Year (b)	Balance End Year (c)	Increase or (Decrease) (d)
1	<b>UTILITY PLANT</b>			
2	101 Utility Plant -Electric.....	\$11,118,535	\$11,510,216	\$391,681
3	101 Utility Plant- Gas			\$0
4				
5	<b>Total Utility Plant.....</b>	<b>\$11,118,535</b>	<b>\$11,510,216</b>	<b>\$391,681</b>
6				
7				
8				
9				
10				
11	<b>FUND ACCOUNTS</b>			
12	125 Sinking Funds.....	\$0	\$0	\$0
13	126 Depreciation Fund (P. 14).....	\$1,848,404	\$1,757,984	(\$90,420)
14	128 Other Special Funds.....	\$7,258,417	\$7,533,685	\$275,268
15	<b>Total Funds.....</b>	<b>\$9,106,821</b>	<b>\$9,291,669</b>	<b>\$184,848</b>
16	<b>CURRENT AND ACCRUED ASSETS</b>			
17	131 Cash (P. 14).....	\$2,193,900	\$2,956,204	\$762,304
18	132 Special Deposits.....	\$247,896	\$214,845	(\$33,051)
19	132 Working Funds.....	\$3,048	\$3,290	\$242
20	141 Notes and Receivables.....	\$0	\$0	\$0
21	142 Customer Accounts Receivable.....	\$1,356,880	\$1,375,160	\$18,280
22	143 Other Accounts Receivable.....	\$792,751	\$226,979	(\$565,772)
23	146 Receivables from Municipality.....	\$0	\$0	\$0
24	151 Materials and Supplies (P. 14).....	\$605,397	\$607,897	\$2,500
25		\$0	\$0	\$0
26	165 Prepayments.....	\$1,614,414	\$1,670,996	\$56,582
27	174 Miscellaneous Current Assets	\$1,881	\$1,881	\$0
28	<b>Total Current and Accrued Assets...</b>	<b>\$6,816,167</b>	<b>\$7,057,252</b>	<b>\$241,085</b>
29	<b>DEFERRED DEBITS</b>			
30	181 Unamortized Debt Discount.....	\$0		\$0
31	182 Extraordinary Property Debits.....	\$0		\$0
32	185 Other Deferred Debits.....	\$402,880	\$402,880	\$0
33	<b>Total Deferred Debits.....</b>	<b>\$402,880</b>	<b>\$402,880</b>	<b>\$0</b>
34				
35	<b>Total Assets and Other Debits.....</b>	<b>\$27,444,403</b>	<b>\$28,262,017</b>	<b>\$817,614</b>

**COMPARATIVE BALANCE SHEET Liabilities and Other Credits**

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End 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.....	\$2,769,500	\$2,769,500	\$0
6	207 Appropriations for Construction Repayment..	\$0	\$0	\$0
7	208 Unappropriated Earned Surplus (P. 12).....	\$12,649,902	\$13,013,314	\$363,412
8	<b>Total Surplus.....</b>	<b>\$15,419,402</b>	<b>\$15,782,814</b>	<b>\$363,412</b>
9	<b>LONG TERM DEBT</b>			
10	221 Bonds (P. 6).....			\$0
11	231 Notes Payable (P 7).....			\$0
12	<b>Total Bonds and Notes.....</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
13	<b>CURRENT AND ACCRUED LIABILITIES</b>			
14	232 Accounts Payable.....	\$1,102,028	\$982,937	(\$119,091)
15	234 Payables to Municipality.....	\$0	\$0	\$0
16	235 Customer Deposits.....	\$229,603	\$197,255	(\$32,348)
17	236 Taxes Accrued.....	\$0	\$0	\$0
18	237 Interest Accrued.....	\$18,293	\$17,590	(\$703)
19	242 Miscellaneous Current and Accrued Liabilities	\$183,374	\$188,466	\$5,092
20	<b>Total Current and Accrued Liabilities...</b>	<b>\$1,533,298</b>	<b>\$1,386,248</b>	<b>(\$147,050)</b>
21	<b>DEFERRED CREDITS</b>			
22	251 Unamortized Premium on Debt.....			\$0
23	252 Customer Advance for Construction.....			\$0
24	253 Other Deferred Credits.....	\$75,215	\$75,215	\$0
25	<b>Total Deferred Credits</b>	<b>\$75,215</b>	<b>\$75,215</b>	<b>\$0</b>
26	<b>RESERVES</b>			
27	260 Reserves for Uncollectable Accounts.....	\$52,181	\$52,260	\$79
28	261 Property Insurance Reserve.....	\$0	\$0	\$0
29	262 Injuries and Damages Reserves.....	\$0	\$0	\$0
30	263 Pensions and Benefits.....	\$4,269,159	\$4,852,523	\$583,364
31	265 Miscellaneous Operating Reserves.....	\$502,071	\$0	(\$502,071)
32	<b>Total Reserves.....</b>	<b>\$4,823,411</b>	<b>\$4,904,783</b>	<b>\$81,372</b>
33	<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>			
34	271 Contributions in Aid of Construction.....	\$5,593,077	\$6,112,957	\$519,880
35	<b>Total Liabilities and Other Credits</b>	<b>\$27,444,403</b>	<b>\$28,282,017</b>	<b>\$817,614</b>

State below if any earnings of the Municipal Lighting Plant have been used for any purpose other than discharging indebtedness of the plant, the purpose for which used and the amount thereof.

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**STATEMENT OF INCOME FOR THE YEAR**

Line No.	Account (a)	Current Year	Increase or (Decrease) from Preceding Year
1	<b>OPERATING INCOME</b>		
2	400 Operating Revenue (P. 37 and P. 43) .....	\$13,906,881	\$275,245
3	<b>Operating Expenses:</b>		
4	401 Operation Expense (P.42 and 47).....	\$11,149,929	(\$641,992)
5	402 Maintenance Expense.....	\$840,896	\$275,893
6	403 Depreciation Expense .....	\$639,019	\$17,746
7	407 Amortization of Property Losses.....	\$0	\$0
8			
9	408 Taxes (P. 49).....	\$0	\$0
10	<b>Total Operating Expenses</b> .....	<b>\$12,629,844</b>	<b>(\$348,353)</b>
11	Operating Income.....		
12	414 Other Utility Operating Income (P.50).....	\$0	\$0
13			
14	<b>Total Operating Income</b> .....	<b>\$1,277,037</b>	<b>\$823,598</b>
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	\$29,458	(\$273,488)
17	419 Interest Income.....	(\$720,083)	(\$1,345,759)
18	421 Miscellaneous Income(P. 21).....	\$0	\$0
19	<b>Total Other Income</b> .....	<b>(\$690,625)</b>	<b>(\$1,619,247)</b>
20	<b>Total Income</b> .....	<b>\$586,412</b>	<b>(\$995,649)</b>
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization.....	\$0	
23	426 Other Income Deductions.....	\$0	
24	<b>Total Income Deductions</b> .....	<b>\$0</b>	<b>\$0</b>
25	<b>Income before Interest Charges</b> .....	<b>\$586,412</b>	<b>(\$995,649)</b>
26	<b>INTEREST CHARGES</b>		
27	427 Interest on Bonds and Notes.....	\$0	\$0
28	428 Amortization of Debt Discount and Expense.....	\$0	\$0
29	429 Amortization of Premium on Debt.....	\$0	\$0
30	431 Other Interest Expense.....	\$0	\$0
31	432 Interest Charged to Construction-Credit.....	\$0	\$0
32	<b>Total Interest Charges</b>	<b>\$0</b>	<b>\$0</b>
33	<b>Net Income</b> .....	<b>\$586,412</b>	<b>(\$995,649)</b>

**EARNED SURPLUS**

Line No.	Account (a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of Period).....		\$12,649,902
35			
36			
37	433 Balance transferred from Income.....		\$586,412
38	434 Miscellaneous Credits to Surplus(P. 21).....		
39	435 Miscellaneous Debits to Surplus(P. 21).....		
40	436 Appropriations of Surplus (P.21).....	\$223,000	
41	437 Surplus Applied to Depreciation.....		
42	208 Unappropriated Earned Surplus (at end of period).....	\$13,013,314	
43			
44	<b>TOTALS</b>	<b>\$13,236,314</b>	<b>\$13,236,314</b>

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

Line No.	Items (a)	Amount (b)
1	Operation Fund.....	\$2,956,204
2	Interest Fund.....	\$0
3	Bond Fund.....	\$0
4	Construction Fund.....	\$0
5		
6		
7		
8		
9		
10		
11		
12	<b>TOTAL</b>	<b>\$2,956,204</b>

**MATERIALS AND SUPPLIES (Account 161-169, 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).....	\$607,898	
17	Merchandise (Account 155).....		
18	Other Materials and Supplies (Account 156).....		
19	Nuclear Fuel Assemblies and Components - In Reactor (Acct 157)		
20	Nuclear Fuel Assemblies and Components - Stock Acct (Acct 158)		
21	Nuclear Byproduct Materials (Account 159).....		
22	Stores Expense (Account 163).....		
23	<b>Total per Balance Sheet</b>	<b>\$607,898</b>	<b>\$0</b>

**Depreciation Fund Account (Account 126)**

Line No.	(a)	Amount (b)
24	<b>DEBITS</b>	
25	Balance of Account at Beginning of Year.....	\$1,848,404
26	Income During Year from Balance on Deposit(interest).....	(\$90,420)
27	Amount Transferred from Income(depreciation).....	\$0
28	<b>TOTAL</b>	<b>\$1,757,984</b>
29		
30	<b>CREDITS</b>	
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.)	
32	Amounts Expended for Renewals.....	
33	Adjustment	
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year.....	\$1,848,404
40	<b>TOTAL</b>	<b>\$1,848,404</b>

**UTILITY PLANT -- ELECTRIC**

1. Report below the items of utility plant in service according to prescribed accounts  
2. Do not include as adjustments, corrections of additions and retirements for the current or the pre-

ceding 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	<b>1. INTANGIBLE PLANT</b>						
2							
3							
4		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	<b>2. PRODUCTION PLANT</b>						
6	<b>A. Steam Production</b>						
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						
14	<b>Total Steam Production Plant</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	<b>B. Nuclear Production Plant</b>						
16	320 Land and Land Rights						
17	321 Structures and Improvements						
18	322 Reactor Plant Equipment						
19	323 Turbogenerator Units						
20	324 Accessory Electric Equipment						
21	325 Miscellaneous Power Plant Equipment						
22	<b>Total Nuclear Production Plant</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23							

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	<b>Total Hydraulic Production Plant</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
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	<b>Total Other Production Plant</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
19	<b>Total Production Plant</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....	\$3,294.00					\$3,294.00
22	351 Clearing Land and Rights of Way..						
23	352 Structures and Improvements..						
24	353 Station Equipment.....						
25	354 Towers and Fixures						
26	355 Poles and Fixtures.....						
27	356 Overhead Conductors and Device..						
28	357 Underground Conduits.....						
29	358 Underground Conductors and Devices.....						
30	359 Roads and Trails.....						
31	<b>Total Transmission Plant</b>	<b>\$3,294.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$3,294.00</b>



## UTILITY PLANT - ELECTRIC (continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	<b>4. DISTRIBUTION PLANT</b>						
2	360 Land and Land Rights.....	\$1,990,984	\$45,790	\$0			\$2,036,774
3	361 Structures and Improvements.....	\$1,799	\$2,450	\$381			\$3,868
4	362 Station Equipment.....	\$541,230	\$15,833	\$104,192			\$452,871
5	363 Storage Battery Equipment.....	\$8,198	\$0	\$278			\$7,920
6	364 Poles and Fixtures.....	\$630,485	\$32,494	\$49,660			\$613,319
7	365 Overhead Conductors and Devices...	\$2,007,532	\$418,616	\$121,575			\$2,304,573
8	366 Underground Conduits.....	\$75,287	\$8,312	\$5,811			\$77,788
9	367 Underground Conductors and Devices	\$1,760,175	\$118,316	\$113,158			\$1,765,333
10	368 Line Transformers.....	\$1,117,502	\$162,121	\$65,674			\$1,213,949
11	369 Services.....	\$70,696	\$0	\$14,957			\$55,739
12	370 Meters.....	\$558,312	\$49,631	\$24,392			\$583,551
13	371 Installation on Cust's Premises....	\$2,033	\$0	\$224			\$1,809
14	372 Leased Prop. on Cust's Premises....	\$15	\$0	\$0			\$15
15	373 Street Light and Signal Systems.....	\$250,033	\$2,769	\$25,288			\$227,514
16	<b>Total Distribution Plant</b>	<b>\$9,014,281</b>	<b>\$858,332</b>	<b>\$525,590</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,345,023</b>
17	<b>5. GENERAL PLANT</b>						
18	389 Land and Land Rights.....	\$179,800	\$0	\$0			\$179,800
19	390 Structures and Improvements.....	\$247,679	\$10,580	\$37,806			\$220,453
20	391 Office Furniture and Equipment.....	\$247,810	\$2,288	\$12,929			\$237,169
21	392 Transportation Equipment.....	\$1,156,241	\$95,058	\$45,327			\$1,205,972
22	393 Stores Equipment.....	\$2,116	\$0	\$1,000			\$1,116
23	394 Tools, Shop and Garage Equipment...	\$219,267	\$58,330	\$11,866			\$265,729
24	395 Laboratory Equipment.....	\$1,022	\$0	\$515			\$507
25	396 Power Operated Equipment.....	\$0	\$0	\$0			\$0
26	397 Communication Equipment.....	\$47,024	\$8,112	\$3,984			\$51,152
27	398 Miscellaneous Equipment.....	\$1	\$0	\$0			\$1
28	399 Other Tangible Property.....	\$0	\$0	\$0			\$0
29	<b>Total General Plant</b>	<b>\$2,100,960</b>	<b>\$174,368</b>	<b>\$113,429</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,161,899</b>
30	<b>Total Electric Plant In Service</b>	<b>\$11,118,535</b>	<b>\$1,030,700</b>	<b>\$639,019</b>	<b>\$0</b>	<b>\$0</b>	<b>\$11,510,218</b>
31	104 Utility Plant leased to Others.....	\$0					
32	105 Property Held for Future Use.....	\$0					
33	107 Construction Work in Progress.....	\$0					
	108 Accumulated Depreciation	\$0					
34	<b>Total Utility Electric Plant</b>	<b>\$11,118,535</b>	<b>\$1,030,700</b>	<b>\$639,019</b>	<b>\$0</b>	<b>\$0</b>	<b>\$11,510,218</b>

**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					
2	Received During Year					
3	<b>TOTAL</b>	0.00				
4	Used During Year (Note A)					
5						
6						
7						
8						
9						
10						
11	Sold or Transferred					
12	<b>TOTAL DISPOSED OF</b>	0.00				
13	<b>BALANCE END OF YEAR</b>	0.00				
Line No.	Item (g)	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	<b>TOTAL</b>					
17	Used During Year (Note A)					
18						
19						
20						
21						
22						
23						
24	Sold or Transferred					
25	<b>TOTAL DISPOSED OF</b>					
26	<b>BALANCE END OF YEAR</b>					

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

**MISCELLANEOUS NON-OPERATING INCOME (Account 421)**

Line No.	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6	<b>TOTAL</b>	<b>\$0</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	Correction of prior year loans repayment	
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	In Lieu of Tax Payment	\$223,000
34		
35		
36		
37		
38		
39		
40	<b>TOTAL</b>	<b>\$223,000</b>

**MUNICIPAL REVENUES (Accounts 482,444)**  
**(K.W.H. Sold under the Provision of Chapter 269, Acts of 1927)**

Line No.	Acct No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue per M.C.F. [\$0.0000] (d)
1					
2					
3	482				
4		TOTALS			

Line No.	Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue per K.W.H. [cents] [\$0.0000] (d)
5				
6	444 Municipal: (Other Than Street Lighting)	1,377,853	\$189,311	0.1374
7				
8	TOTALS	1,377,853	\$189,311	0.1374
9	Street Lighting	226,227	\$29,381	0.1299
10				
11	TOTALS	226,227	\$29,381	0.1299
12				
13				
14				
15				
16				
17				
18				
19	TOTALS	1,604,080	\$218,692	0.1363

**PURCHASED POWER (Account 556)**

Line No.	Names of Utilities from which Electric Energy is Purchased (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Cost per K.W.H. cents [0.0000] (e)
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
		TOTALS			

**SALES FOR RESALE (Account 447)**

Line No.	Names of Utilities to which Electric Energy is Sold (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (c)	Revenues per K.W.H. [cents] [0.0000] (e)
30	Reading Light Department	Middleton Line - 250	120,249	\$16,522	0.1374
31					
32					
33					
34					
35					
36					
37					
38					
39		TOTALS	120,249	\$16,522	0.1374

**ELECTRIC OPERATING REVENUES (Account 400)**

1. Report below the amount of Operating Revenue for the year for each prescribed account and the amount of increase or decrease over the preceding year.  
 2. If increases and decreases are not derived from previously reported figures explain any inconsistencies.  
 3. Number of customers should be reported on the basis of number of meters, plus number of flat rate accounts, except that where separate meter readings are

added for billing purposes, one customer shall be counted for each group of meters so added. The average number of customers means the average of the 12 figures at the close of each month. If the customer count in the residential service classification includes customers counted more than once because of special services, such as water heating, etc., indicate in a footnote the number of such duplicate customers included in the classification.

4. Unmetered sales should be included below. The details of such sales should be given in a footnote.  
 5. Classification of Commercial and Industrial Sales, Account 442, according to small (or Commercial) and Large (or Industrial) may be according to the basis of classification regularly used by the respondent if such basis of classification is not greater than 1000 Kw of demand. See Account 442 of the Uniform System of Accounts. Explain basis of classification.

Line No.	Account (a)	Operating Revenues		Kilowatt-hours Sold		Average Number of Customers per Month	
		Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)	Amount for Year (d)	Increase or (Decrease) from Preceding Year (e)	Number for Year (f)	Increase or (Decrease) from Preceding Year (g)
1	<b>SALES OF ELECTRICITY</b>						
2	440 Residential Sales.....	\$5,338,239	\$226,107	39,210,460	1,776,290	3,203	41
3	442 Commercial and Industrial Sales:						
4	Small (or Commercial) see Instr. 5.....	\$2,888,029	\$22,051	19,605,420	253,890	529	10
5	Large (or Industrial) see Instr. 5.....	\$5,293,480	\$25,388	36,917,808	347,076	19	0
6	444 Municipal Sales (P.22)	\$218,692	(\$122)	1,604,080	(188,449)	16	(1)
7	445 Other Sales to Public Authorities.....	\$40,424	(\$49)	451,281	2,234	63	(2)
8	446 Sales to Railroads and Railways.....	\$0					
9	448 Interdepartmental Sales.....	\$0					0
10	449 Miscellaneous Electric Sales.....	\$0					
11	Total Sales to Ultimate Consumers.....	\$13,879,764	\$273,376	97,789,049	2,211,041	3,830	48
12	447 Sales for Resale.....	\$16,622	\$1,471	120,249	(4,316)		
13	Total Sales of Electricity*.....	\$13,896,286	\$274,848	97,909,298	2,206,725	3,830	48
14	<b>OTHER OPERATING REVENUES</b>						
15	450 Forfeited Discounts.....	\$0	\$0				
16	451 Miscellaneous Service Revenues.....	\$0	\$0				
17	453 Sales of Water and Water Power.....	\$0	\$0				
18	454 Rent from Electric Property.....	\$7,020	\$0				
19	455 Interdepartmental Rents.....	\$0	\$0				
20	458 Other Electric Revenues.....	\$3,576	\$400				
21							
22							
23	Miscellaneous Adjustments to Sales						
24							
25	Total Other Operating Revenues.....	\$10,696	\$400				
26	Total Electric Operating Revenues.....	\$13,906,881	\$276,248				

\*Includes revenues from application of fuel clauses  
 Total KWH to which applied 69,623,228



**ELECTRIC OPERATION AND MAINTENANCE EXPENSES**

1. Enter in the space provided the operation and maintenance expenses for the year.  
 2. If the increases and decreases are not divided 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 EXPENSE</b>		
2	<b>STEAM POWER GENERATION</b>		
3	<b>Operation:</b>		
4	500 Operation supervision and engineering.....	\$0	\$0
5	501 Fuel.....	\$0	\$0
6	502 Steam expense.....	\$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	<b>Total Operation</b>	<b>\$0</b>	<b>\$0</b>
13	<b>Maintenance:</b>		
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	<b>Total Maintenance</b>	<b>\$0</b>	<b>\$0</b>
20	<b>Total power production expenses -- steam power</b>	<b>\$0</b>	<b>\$0</b>
21	<b>NUCLEAR POWER GENERATION</b>		
22	<b>Operation:</b>		
23	517 Operation supervision and engineering.....	\$0	\$0
24	518 Fuel.....	\$0	\$0
25	519 Coolants and water.....	\$0	\$0
26	520 Steam expense.....	\$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	<b>Total Operation</b>	<b>\$0</b>	<b>\$0</b>
33	<b>Maintenance:</b>		
34	528 Maintenance supervision and engineering.....	\$0	\$0
35	529 Maintenance of structures.....	\$0	\$0
36	530 Maintenance of reactor plant equipment.....	\$0	\$0
37	531 Maintenance of electric plant.....	\$0	\$0
38	532 Maintenance of miscellaneous nuclear plant.....	\$0	\$0
39	<b>Total Maintenance</b>	<b>\$0</b>	<b>\$0</b>
40	<b>Total power production expenses -- nuclear power</b>	<b>\$0</b>	<b>\$0</b>
41	<b>HYDRAULIC POWER GENERATION</b>		
42	<b>Operation:</b>		
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	<b>Total Operation</b>	<b>\$0</b>	<b>\$0</b>

(continued on page 40)

**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	<b>Maintenance:</b>		
3	541 Maintenance Supervision and Engineering.....	\$0	\$0
4	542 Maintenance of Structures.....	\$0	\$0
5	543 Maintenance of Reservoirs, Dams and Waterway	\$0	\$0
6	544 Maintenance of Electric Plant.....	\$0	\$0
7	545 Maintenance of Miscellaneous Hydraulic Plant....	\$0	\$0
8	<b>Total Maintenance</b>	<b>\$0</b>	<b>\$0</b>
9	<b>Total Power Production Expenses - Hydraulic</b>	<b>\$0</b>	<b>\$0</b>
10	<b>OTHER POWER GENERATION</b>		
11	<b>Operation:</b>		
12	546 Operation Supervision and Engineering.....	\$0	\$0
13	547 Fuel.....	\$0	\$0
14	548 Operation Expenses.....	\$0	\$0
15	549 Miscellaneous Other Power Generation Expense	\$0	\$0
16	550 Rents.....	\$0	\$0
17	<b>Total Operation</b>	<b>\$0</b>	<b>\$0</b>
18	<b>Maintenance:</b>		
19	551 Maintenance Supervision and Engineering.....	\$0	\$0
20	552 Maintenance of Structure.....	\$0	\$0
21	553 Maintenance of Generating and Electric Plant....	\$0	\$0
22	554 Maintenance of Miscellaneous Other Power Gen	\$0	\$0
23	<b>Total Maintenance</b>	<b>\$0</b>	<b>\$0</b>
24	<b>Total Power Production Expenses - Other Pow</b>	<b>\$0</b>	<b>\$0</b>
25	<b>OTHER POWER SUPPLY EXPENSES</b>		
26	555 Purchased Power.....	\$9,322,560	(\$55,342)
27	556 System Control and Load Dispatching.....	\$0	\$0
28	557 Other Expenses.....	\$1,855	(\$32,173)
29	<b>Total Other Power Supply Expenses</b>	<b>\$9,324,415</b>	<b>(\$87,515)</b>
30	<b>Total Power Production Expenses</b>	<b>\$0</b>	<b>\$0</b>
31	<b>TRANSMISSION EXPENSES</b>		
32	<b>Operation:</b>		
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.....	\$0	\$0
39	566 Miscellaneous Transmission Expenses.....	\$0	\$0
40	567 Rents.....	\$0	\$0
41	<b>Total Operation</b>	<b>\$0</b>	<b>\$0</b>
42	<b>Maintenance:</b>		
43	568 Maintenance Supervision and Engineering.....	\$0	\$0
44	569 Maintenance of Structures.....	\$151	\$151
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 Plan	\$0	\$0
49	<b>Total Maintenance</b>	<b>\$151</b>	<b>\$151</b>
50	<b>Total Transmission Expenses</b>	<b>\$151</b>	<b>\$151</b>



**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	<b>Operation:</b>		
3	580 Operation Supervision and Engineering.....	\$127,478	(\$3,528)
4	581 Load Dispatching.....	\$0	\$0
5	582 Station Expenses.....	\$2,343	(\$13,936)
6	583 Overhead Line Expenses.....	\$3,352	(\$17,101)
7	584 Underground Line Expenses.....	\$3,001	\$1,300
8	585 Street Lighting and Signal System Expenses.....	\$0	\$0
9	586 Meter Expenses.....	\$69,690	\$12,702
10	587 Customer Installations Expenses.....	\$246,961	(\$24,479)
11	588 Miscellaneous Distribution Expenses.....	\$28,767	(\$28,983)
12	589 Rents.....	\$0	\$0
13	<b>Total Operation</b>	<b>\$481,592</b>	<b>(\$74,003)</b>
14	<b>Maintenance:</b>		
15	590 Maintenance supervision and engineering.....	\$0	\$0
16	591 Maintenance of Structures.....	\$0	\$0
17	592 Maintenance of Station Equipment.....	\$15,237	\$15,237
18	593 Maintenance of Overhead Lines.....	\$349,177	\$140,518
19	594 Maintenance of Underground Lines.....	\$2,146	\$1,466
20	595 Maintenance of Line Transformers.....	(\$559)	(\$4,490)
21	596 Maintenance of Street Lighting and Signal System.....	\$62,236	\$24,456
22	597 Maintenance of Meters.....	\$0	(\$1,586)
23	598 Maintenance of Miscellaneous Distribution Plant.....	\$0	\$0
24	<b>Total Maintenance</b>	<b>\$428,237</b>	<b>\$175,601</b>
25	<b>Total Distribution Expenses</b>	<b>\$909,829</b>	<b>\$101,598</b>
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	<b>Operation:</b>		
28	901 Supervision.....	\$0	\$0
29	902 Meter Reading Expenses.....	\$30,819	(\$2,427)
30	903 Customer Records and Collection Expenses.....	\$76,655	(\$24,952)
31	904 Uncollectable Accounts.....	\$3,000	(\$17,000)
32	905 Miscellaneous Customer Accounts Expenses.....	\$6,116	\$6,116
33	<b>Total Customer Accounts Expenses</b>	<b>\$116,590</b>	<b>(\$38,263)</b>
34	<b>SALES EXPENSES</b>		
35	<b>Operation:</b>		
36	911 Supervision.....	\$0	\$0
37	912 Demonstrating and Selling Expenses.....	\$0	\$0
38	913 Advertising Expenses.....	\$426	(\$2,174)
39	916 Miscellaneous Sales Expense.....	\$0	\$0
40	<b>Total Sales Expenses</b>	<b>\$426</b>	<b>(\$2,174)</b>
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	<b>Operation:</b>		
43	920 Administrative and General Salaries.....	\$307,747	(\$48,480)
44	921 Office Supplies and Expenses.....	\$24,936	(\$9,265)
45	922 Administrative Expenses Transferred - Cr.....	\$0	\$0
46	923 Outside Services Employed.....	\$266,637	\$86,326
47	924 Property Insurance.....	\$14,766	\$3,506
48	925 Injuries and Damages.....	\$0	\$0
49	926 Employees Pensions and Benefits.....	\$577,118	(\$476,089)
50	928 Regulatory Commission Expenses.....	\$0	\$0
51	929 Store Expense.....	\$0	\$0
52	930 Miscellaneous General Expenses.....	\$35,702	\$3,965
53	931 Rents.....	\$0	\$0
54	<b>Total Operation</b>	<b>\$1,226,905</b>	<b>(\$440,037)</b>

**ELECTRIC OPERATION AND MAINTENANCE EXPENSES -- Continued**

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>ADMINISTRATIVE EXPENSES</b>		
2	Maintenance:		
3	932 Maintenance of General Plant.....	\$356,548	\$106,444
4	933 Transportation expense.....	\$55,960	(\$6,303)
5	<b>Total Maintenance</b>	<b>\$412,508</b>	<b>\$100,141</b>
6	<b>Total Administrative and General Expenses</b>	<b>\$1,639,414</b>	<b>(\$339,896)</b>
7	<b>Total Electric Operation and Maintenance Expenses</b>	<b>\$11,990,825</b>	<b>(\$366,099)</b>

**SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES**

Line No.	Functional Classification (a)	OPERATION (b)	MAINTENANCE (c)	TOTAL (d)
8	Power Production Expenses			
9	Electric Generation			
10	Steam Power.....			
11	Nuclear Power.....			
12	Hydraulic Power.....			
13	Other Power.....			
14	Other Power Supply Expenses.....	\$9,324,415	\$0	\$9,324,415
15	<b>Total Power Production Expenses</b>	<b>\$9,324,415</b>	<b>\$0</b>	<b>\$9,324,415</b>
16	Transmission Expenses.....	\$0	\$151	\$151
17	Distribution Expenses.....	\$481,592	\$428,237	\$909,829
18	Customer Accounts Expenses.....	\$116,590	\$0	\$116,590
19	Sales Expenses.....	\$426	\$0	\$426
20	Administrative and General Expenses.....	\$1,226,906	\$412,508	\$1,639,414
21	Power Production Expenses	\$0	\$0	\$0
22	<b>Total Electric Operation and Maintenance Expenses</b>	<b>\$11,149,929</b>	<b>\$840,896</b>	<b>\$11,990,825</b>

23 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)..... 0.93%

24 Total salaries and wages of electric department for year, including amounts charged to oper-  
 ating expenses, construction and other accounts..... 1,608,259

25 Total number of employees of electric department at end of year including administrative,  
 operating, maintenance and other employees (including part time employees) 13



**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 Revenue (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
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37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51	<b>TOTALS</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

**INCOME FROM MERCHANDISE, JOBBING AND CONTRACT WORK (Account 416)**

Report by utility departments the revenues, costs, expenses, and net income from merchandising, jobbing, and contract work during year.

Line No.	Item (a)	Electric Department (c)	Gas Department (d)	Other Utility Department (d)	Total (e)
1	Revenues:				
2	Merchandising sales, less discounts, allowances and returns.....				
3	Contract Work.....	\$29,459.00			\$29,459.00
4	Commissions.....				
5	Other (List according to major classes)				
6					
7					
8					
9					
10	Total Revenues.....	\$29,459.00	\$0.00	\$0.00	\$29,459.00
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to Major classes of cost).....				
15	Jobbing/Contract Costs				
16	Materials				
17	Outside Service Labor				
18					
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	<b>TOTAL COSTS AND EXPENSES</b>	\$0.00	\$0.00	\$0.00	\$0.00
51	<b>Net Profit (or Loss)</b>	\$29,459.00	\$0.00	\$0.00	\$29,459.00



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 sale may be grouped.

Type of Demand Reading (l)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Revenue (Omit Cents)				Revenue per Kwh (cents) [0.0000] (p)	Line No.
			Demand Charges (i)	Energy Charges (m)	Other Charges (n)	Total (o)		
								1
								2
								3
								4
								5
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								32
								33
								34
TOTALS		0	\$0.00	\$0.00	\$0.00	\$0.00	0.0000	35





**PURCHASED POWER (Account 555) - Continued**

(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.

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).

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 column (g) and (h) should be actual based on monthly readings and

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)	Kilowatt-hours (k)	Cost of Energy (Omit Cents)				Cents per KWH (cents) [0.0000] (p)	Line No.
			Capacity Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
60 Minutes	240 KV	3,717,915	\$84,887			\$84,887	\$0.0228	1
60 Minutes	240 KV	125,162	\$60,668	\$24,346	\$2,829	\$87,843	\$0.7018	2
60 Minutes	240 KV	908,211	\$117,665	\$72,599	\$2,957	\$193,221	\$0.2127	3
60 Minutes	240 KV	270,793	\$6,972	\$1,571	\$17	\$8,560	\$0.0316	4
60 Minutes	240 KV	2,845,164	\$91,995	\$18,147	\$1,928	\$112,070	\$0.0394	5
60 Minutes	240 KV	1,876,188	\$61,492	\$11,967	\$1,304	\$74,763	\$0.0398	6
60 Minutes	240 KV	7,175,675	\$192,894	\$41,636	\$455	\$234,985	\$0.0327	7
60 Minutes	240 KV	703,562	\$19,289	\$4,082	\$45	\$23,416	\$0.0333	8
60 Minutes	240 KV	133,949	\$16,361	\$13,257	\$514	\$30,132	\$0.2250	9
60 Minutes	240 KV	24,867,039	\$850,688	\$144,288	\$1,576	\$996,552	\$0.0401	10
					(\$127,986)	(\$127,986)	N/A	11
60 Minutes	240 KV				\$27,988	\$27,988	N/A	12
60 Minutes	240 KV				\$2,016	\$2,016	N/A	13
60 Minutes	240 KV	1,321,429		\$82,991	\$85,964	\$168,955	\$0.1279	14
		9,054		\$1,410		\$1,410	\$0.1557	15
		543,159		\$38,021		\$38,021	\$0.0700	16
					\$1,794	\$1,794	N/A	17
					\$94,297	\$94,297	N/A	18
					\$0	\$0	N/A	19
		13,884,000		\$654,910		\$654,910	\$0.0472	20
		5,840,000		\$303,053		\$303,053	\$0.0519	21
			\$307,500			\$307,500	N/A	22
		2,770,083		\$136,820		\$136,820	\$0.0494	23
		2,932,667		\$261,266		\$261,266	\$0.0891	24
		2,624,411		\$211,383		\$211,383	\$0.0805	25
		2,016,150		\$214,005		\$214,005	\$0.1061	26
		6,360,000		\$222,600		\$222,600	\$0.0350	27
		4,193,413		\$241,121.00		\$241,121.00	0.0575	28
								29
								30
								31
								32
								33
								34
								35
								36
<b>TOTALS</b>		<b>85,118,024</b>	<b>\$1,810,411.00</b>	<b>\$2,699,473.00</b>	<b>\$95,698.00</b>	<b>\$4,605,682.00</b>		<b>37</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	Interchange Across State Lines	Point of Interchange	Voltage at Which Interchanged	Kilowatt-hours			Amount of Settlement
					Received	Delivered	Net Difference	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	NEPEX						16,886,716	6,331,007
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12				TOTALS	0	0	16,886,716	6,331,007

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

Line No.	Name of Company (i)	Explanation (j)		Amount (k)
13				
14				
15				
16				
17				
18				
19				
20				
21			TOTALS	0

**ELECTRIC ENERGY ACCOUNT**

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

Line No.	Item (a)	Kilowatt-hours (b)
<b>SOURCES OF ENERGY</b>		
1		
2	Generation (excluding station use):	
3	Steam..... Gas Turbine Combined Cycle	
4	Nuclear.....	
5	Hydro.....	
6	Other Windmill ..... Diesel	
7	Total generation.....	85,118,024
8	Purchases.....	
9	{ In (gross) .....	
10	Interchanges..... { Out (gross) .....	
11	{ Net (Kwh).....	16,886,716
12	{ Received.....	
13	Transmission for/by other..... { Delivered.....	
14	{ Net (kwh).....	
15	<b>TOTAL</b> .....	<b>102,004,740</b>
<b>DISPOSITION OF ENERGY</b>		
16		
17	Sales to ultimate consumers (including interdepartmental sales).....	97,789,049
18	Sales for resale.....	120,249
19	Sales adjustment for change in timing of billing cycle	
20	Energy used by the company (excluding station use).....	75,040
21	Electric department only.....	
22	Energy losses:	
23	Transmission and conversion losses.....	
24	Distribution losses.....	4,020,402
25	Unaccounted for losses.....	
26	Total energy losses.....	
27	Energy losses as percent of total on line 15.....	3.94%
28	<b>TOTAL</b> .....	<b>4,020,402</b>
		<b>102,004,740</b>

**MONTHLY PEAKS AND OUTPUT**

1. Report hereunder the information called for pertaining to simultaneous. State type of monthly peak reading (instantaneous 15, 30, or 60 peaks established monthly (in kilowatts) and monthly output (in kilowatt-minute integrated.)  
 2. Monthly peak col. (b) should be respondent's maximum kW load as it and purchases plus or minus net interchange and plus or minus net transmission of the coincidental net generation and purchases plus or minus transmission or wheeling. Total for the year should agree with line 15 above.  
 3. Monthly peak including such emergency deliveries should be shown in a connected, the information called for below should be furnished for each system.  
 4. Monthly output should be the sum of respondent's net generation plus or minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with line 15 above.

Middleton, MA

**Monthly Peak**

Line No.	Month (a)	Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	Monthly Output (kwh) See Instr. 4) (g)
29	January	16,433	Tuesday	1/2/18	6:00 PM	60 min	8,961,194
30	February	14,515	Wednesday	2/7/18	6:00 PM	60 min	7,459,727
31	March	13,582	Wednesday	3/7/18	7:00 PM	60 min	8,038,536
32	April	12,735	Monday	4/16/18	12:00 PM	60 min	7,291,801
33	May	17,173	Thursday	5/31/18	5:00 PM	60 min	7,851,420
34	June	19,751	Monday	6/18/18	6:00 PM	60 min	8,703,107
35	July	23,121	Tuesday	7/3/18	5:00 PM	60 min	10,712,691
36	August	23,449	Wednesday	8/29/18	6:00 PM	60 min	11,002,137
37	September	21,825	Thursday	9/6/18	4:00 PM	60 min	8,395,711
38	October	14,619	Wednesday	10/10/18	7:00 PM	60 min	7,584,341
39	November	13,928	Thursday	11/15/18	6:00 PM	60 min	7,715,148
40	December	14,809	Tuesday	12/18/18	6:00 PM	60 min	8,289,027
41						<b>TOTAL</b>	<b>102,004,740</b>

**GENERATING STATION STATISTICS (Large Stations)**  
(Except Nuclear, See Instruction 10)

1. Large stations for the purpose of this schedule are steam and hydro stations of 2,500 Kw\* or more of installed capacity and other stations of 500 Kw\* or more of installed capacity (name plate ratings). (\*10,000 Kw and 2,500 Kw, respectively, if annual electric operating revenues of respondent are \$25,000,000 or more.)  
 2. If any plant is leased, operated under a license from the Federal Power Commission, or operated as a joint facility, indicate such facts by the use of asterisks and footnotes.  
 3. Specify if total plant capacity is reported in kva instead of kilowatts as called for on line 5.

4. If peak demand for 60 minutes is not available, give that which is available, specifying period.  
 5. If a group of employees attends more than one generating station, report on line 11 the approximate average number of employees assignable to each station.  
 6. If gas is used and purchased on a term basis, the B.t.u. content of the gas should be given and the quantity of fuel consumed converted to M cu. ft.  
 7. Quantities of fuel consumed and the average cost per unit of fuel consumed should be consistent with charges to expense 501 and

Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)
		NONE	NONE	NONE
1	Kind of plant (steam, hydro, int. com., gas turbine)			
2	Type of plant construction (conventional, outdoor boiler, full outdoor, etc.)			
3	Year originally constructed			
4	Year last unit was installed			
5	Total installed capacity (maximum generator name plate ratings in kw)			
6	Net peak demand on plant-kilowatts (60 min.)			
7	Plant hours connected to load			
8	Net continuous plant capability, kilowatts:			
9	(a) When not limited by condenser water			
10	(b) When limited by condenser water			
11	Average number of employees			
12	Net generation, exclusive of station use			
13	Cost of plant (omit cents):			
14	Land and land rights			
15	Structures and improvements			
16	Reservoirs, dams, and waterways			
17	Equipment costs			
18	Roads, railroads, and bridges			
19	<b>Total cost</b>			
20	<b>Cost per kw of installed capacity</b>			
21	Production expenses:			
22	Operation supervision and engineering			
23	Station labor			
24	Fuel			
25	Supplies and expenses, including water			
26	Maintenance			
27	Rents			
28	Steam from other sources			
29	Steam transferred - Credit			
30	<b>Total production expenses</b>			
31	<b>Expenses per net Kwh (6 places)</b>			
32	Fuel: Kind			
33	Unit: (Coal-tons of 2,000 lb.) (Oil-barrels of 42 gals.) (Gas-M cu. ft.) (Nuclear, indicate)			
34	Quantity (units) of fuel consumed			
35	Average heat content of fuel (B.t.u. per lb. of coal, per gal. of oil, or per cu. ft. of gas)			
36	Average cost of fuel per unit, del. f.o.b. plant			
37	Average cost of fuel per unit consumed			
38	Average cost of fuel consumed per million B.t.u.			
39	Average cost of fuel consumed per kwh net gen.			
40	Average B.t.u. per kwh net generation			
41				
42				

**GENERATING STATION STATISTICS (Large Stations) – Continued**  
(Except Nuclear, See Instruction 10)

547 as shown on Line 24

8. The items under cost of plant and production expenses represents accounts or combinations of accounts prescribed by the Uniform System of Accounts. Production expenses, however, do not include Purchased Power, System Control and Load Dispatching, and Other Expenses classified as "Other Power Supply Expenses."

9. If any plant is equipped with combinations of steam, hydro, internal combustion engine or gas turbine equipment, each should be reported as a separate plant. However, if a gas turbine unit functions in a combined

operations with a conventional steam unit, the gas turbine should be included with the steam station.

10. If the respondent operates a nuclear power generating station submit: (a) a brief explanatory statement concerning accounting for the cost of power generated including any attribution of excess costs to research and development expenses; (b) a brief explanation of the fuel accounting specifying the accounting methods and types of cost units used with respect to the various components of the fuel cost, and (c) such additional information as may be informative concerning the type of plant, kind of fuel used, and other physical and operating characteristics of the plant.

Plant (e)	Plant (f)	Plant (g)	Plant (h)	Plant (i)	Plant (j)	Line No.
NONE						1
						2
						3
						4
						5
						6
						7
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					36	
					37	
					38	
					40	
					41	
					42	

**STEAM GENERATING STATIONS**

1. Report the information called for concerning generating stations and equipment at end of year.  
 2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.  
 3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of

lessor, date and term of lease, and annual rent. For any generating station, other than a leased station or portion thereof for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent ownership by respondent, name of co-owner, basis of sharing output,

Line No.	Name of Station (a)	Location of Station (b)	Number and Year Installed (c)	Boilers			
				Kind of Fuel and Method of Firing (d)	Rated Pressure in lbs. (e)	Rated Steam Temperature* (f)	Rated Max. Continuous M lbs. Steam per Hour (g)
1	NONE						
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
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36							
37							

STEAM GENERATING STATIONS -- Continued

expenses to revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

4. Designate any generating station or portion thereof leased to another company and give name or lessee, date and term of lease and annual rent and how determined. Specify whether lessee is an associated company.

5. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or equipment was not operated within the past year explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

Turbine-Generators\*

Year Installed (h)	Type (l)	Steam Pressure at Throttle p.s.i.g. (j)	R.P.M. (k)	Name Plate Rating in Kilowatts		Hydrogen Pressure**		Power Factor (p)	Voltage K.v.++ (q)	Station Capacity Maximum Name Plate Rating*+ (r)	Line No.
				At Minimum Hydrogen Pressure (l)	At Maximum Hydrogen Pressure (m)	Min. (n)	Max. (o)				
											1
											2
											3
											4
											5
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											36
<b>TOTALS</b>											37

Note references:

- \*Report cross-compound turbine-generator units on two lines -- H.P. section and L.P. section.
- + Indicate tandem-compound (T.C.); cross-compound (C.C.); all single casing (S.C.); topping unit ( T ), and noncondensing (N.C.). Show back pressures.
- \*\* Designate air cooled generators.
- ++ If other than 3 phase, 60 cycle, indicate other characteristics.
- \*+ Should agree with column (m).

**HYDROELECTRIC GENERATING STATIONS**

1. Report the information called for concerning generating stations and equipment at end of year. Show associated prime movers and generators on the same line.  
 2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.  
 3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such

property is leased from another company give name of lessor, date and term of lease, and annual rent. For any generating station, other than a leased station, or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as

Line No.	Name of Station (a)	Location (b)	Name of Stream (c)	Water Wheels			
				Attended or Unattended (d)	Type of Unit* (e)	Year Installed (f)	Gross Static Head with Pond Full (g)
1	NONE						
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
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37							

\* Horizontal or vertical. Also indicate type of runner -- Francis (F), fixed propeller (FP), automatically adjustable propeller (AP), Impulse (I).



HYDROELECTRIC GENERATING STATIONS -- Continued

percent of ownership by respondent, name of co-owner basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

4. Designate any generating station or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent and how determined.

Specify whether lessee is an associated company.

5. Designate any plant or equipment owned, not operated and not leased to another company. If such plant or equipment was not operated within the past year explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

Water Wheels -- Continued			Generators						Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
Design Head (h)	R.P.M. (i)	Maximum hp. Capacity of Unit at Design Head (j)	Year Installed (k)	Voltage (l)	Phase (m)	Frequency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Station (p)		
		NONE								1
										2
										3
										4
										5
										6
										7
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										36
										37
										38
<b>TOTALS</b>										39



**COMBUSTION ENGINE AND OTHER GENERATING STATIONS – Continued**

(except nuclear stations)

ship by respondent, name of co-owner, basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.  
4. Designate any generating station or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent and how determined.

Specify whether lessee is an associated company.  
5. Designate any plant or equipment owned, not operated and not leased to another company. If such plant or equipment was not operated within the past year explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

Prime Movers -- Continued			Generators				Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.	
Rated hp. of Unit (h)	Total Rated hp. of Station Prime Movers (l)	Year Installed (j)	Voltage (k)	Phase (l)	Frequency or d.c. (m)	Name Plate Rating of Unit in Kilowatts (n)			Number of Units in Station (o)
								1	
								2	
								3	
								4	
								5	
								6	
								7	
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								36	
								37	
<b>TOTALS</b>									38
								39	



**TRANSMISSION LINE STATISTICS**

Report information concerning transmission lines as indicated below.

Line No.	Designation		Operating Voltage (c)	Type of Supporting Structure (d)	Length (Pole Miles)		Number of Circuits (g)	Size of Conductor and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1	Central St.	Boston St.	23 kv	Wood Pole	1,265.000		1	336.4 AL
2								
3	Danvers	Central St.	23 kv	Wood Pole	1,700.000		1	795.0 AL
4	Line							
5								
6	Eseex St.	Central St.	23 kv	Wood Pole	2,100.000		2	795.0 AL
7								
8								
9								
10								
11								
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45								
46								
47	<b>TOTALS</b>				5,065.00		4	

\* 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 (f), (g), and (h) special equipment such as rotary converters, reactors, condensers, etc. and auxiliary equipment for increasing capacity.  
 6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by

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

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE			Capacity of Substation In Kva (In Service) (f)	Number Of Trans-formers In Service (g)	Number of Spare Trans-formers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number Of Units (j)	Total Capacity (k)
1	Central Street, Middleton, MA	Distribution Unattended	23,000	4,160		5,000	3	1	NONE		
2											
3	Boston Street, Middleton, MA	Distribution Unattended	23,000	4,160		5,000	3	1	NONE		
4											
5	Gregory Street, Middleton, MA	Distribution Unattended	23,000	4,160		5,000	3	1	NONE		
6											
7	Sharpner's Pond Rd., Middleton, MA	Distribution Unattended	115,000	23,000		80,000	3	1	NONE		
8											
9	Debudg Ave., Middleton, MA	Distribution Unattended	23,000	4,160		3,000	1	0			
10											
11	Total for General Distribution Exclusive of MIT					98,000	8	1			
12											
13	MIT, Middleton, MA	Distribution Unattended	23,000	480Y		12,500	5	0			
14											
15											
16											
17											
18											
19											
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31											
32											
						<b>TOTALS</b>	110,500	13	1		

**OVERHEAD DISTRIBUTION LINES OPERATED**

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	TOTAL
1	Miles - Beginning of Year	70.00		70.00
2	Added During Year	0.10		0.10
3	Retired During Year	0.00		0.00
4	Miles - End of Year	70.10		70.10
5				
6				
7				
8	Distribution system characteristics - AC or DC, Phase, cycles and operating voltages for light and power			
9				
10	22.9/13.2 kv wye 60 cycles			
11	4160Y/2400V 3 phase			
12	277/480Y 3 phase			
13	208Y/120V 3 phase			
14	240/120V 1 phase			
15				

**ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS**

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (Kva)
16	Number at beginning of year.....	2,786	4,284	1,142	63,068.5
17	Additions during year:				
18	Purchased.....	32	68	47	6,125.0
19	Installed.....				
20	Associated with utility plant acquired.....				
21	Total additions.....	32	68	47	6,125.0
22	Reduction during year:				
23	Retirements.....	7	57	33	872.5
24	Associated with utility plant sold.....				
25	Total reductions.....	7	57	33	872.5
26	Number at End of Year.....	2,811	4,295	1,166	68,321.0
27	In Stock.....		198	158	6,272.5
28	Locked Meters' on customers' premises.....				
29	Inactive Transformers on System.....				
30	In Customers' Use.....		4,096	993	61,841.0
31	In Companys' Use.....		1	5	207.5
32	Number at End of Year.....		4,295	1,166	68,321.0

CONDUIT, UNDERGROUND CABLE AND SUBMARINE CABLE -- (Distribution System)

Report below the information called for concerning conduit, underground cable, and submarine cable at end of year.

Line No.	Designation of Underground Distribution System (a)	Miles of Conduit Banded (All sizes and Types) (b)	Underground Cable		Submarine Cable	
			Miles* (c)	Operating Voltage (d)	Feet* (e)	Operating Voltage (f)
1	South Main Street	0.12	2-6"	12-3	23.00 kv	
2	Farcroft Road F1	0.49	2-5"	49-3	23.00 kv	
3	Farcroft Road F2	0.49	2-5"	49-3	23.00 kv	
4	Fuller Pond Condominiums	1.80	2-4"	1.80-3	23.00 kv	
5	M.I.T	0.11	2-6"	11-3	4.16 kv	
6	Circuit 203	0.12	2-6"	12-3	4.16 kv	
7	Circuit 302	0.15	2-6"	15-3	2.40 kv	
8	Averill Road	0.17	2-4"	17-1	2.40 kv	
9	Bouchard Drive	0.07	2-4"	07-1	2.40 kv	
10	Briarwood Lane	0.11	2-4"	11-1	2.40 kv	
11	Borookside Drive	0.10	2-4"	10-1	2.40 kv	
12	Deacon Drive	0.22	2-4"	22-1	2.40 kv	
13	Devonshire Drive	0.28	2-4"		2.40 kv	
14	Dixey Drive	0.45	2-4"	45-1	2.40 kv	
15	Donovan Way	0.45	2-4"	45-1	2.40 kv	
16	Evon Drive	0.09	2-4"	09-1	2.40 kv	
17	Frinaci Drive	0.10	2-4"	10-1	2.40 kv	
18	Kimberly Lane	0.11	2-4"	11-1	2.40 kv	
19	Linda Ann Way	0.11	2-4"	11-1	2.40 kv	
20	Maplewood Drive	0.80	2-4"	80-1	2.40 kv	
21	Northwood Drive	0.51	2-4"	51-1	2.40 kv	
22	Ryder Lane	0.10	2-4"	10-1	2.40 kv	
23	Upton Hills Lane	0.42	2-4"	42-1	2.40 kv	
24	Wildwood Drive	0.22	2-2"	22-1	2.40 kv	
25	Sugar Hills	0.76	2-4"	76-1	13.20 kv	
26	Sugar Hills II	0.15	2-4"	15-1	2.40 kv	
27	Middleton Square	0.12	2-6"	12-3	23.00 kv	
28	Middleton Square	0.23	2-6"	23-3	4.16 kv	
29	Middleton Square	0.19	2-6"	19-3	2.40 kv	
30	Jersey Lane	0.10	2-4"	10-1	2.40 kv	
31	Hillcrest Acres	0.29	2-4"	29-1	2.40 kv	
32	Liberty Hills I	0.69	2-4"	69-1	2.40 kv	
33	Liberty Hills II	0.23	2-4"	23-3	4.16 kv	
34	Bayberry Place	0.77	2-4"	77-1	13.20 kv	
35	Farcroft Place	1.25	2-4"	1.25-1	13.20 kv	
36	Farcroft Heights	0.41	2-4"	41-1	13.20 kv	
37	Bayberry Woods	0.35	2-4"	35-1	13.20 kv	
38	Currier Road	0.29	2-4"	29-1	2.40 kv	
39	Flint Farm Road	0.47	2-4"	47-1	2.40 kv	
40	Middleton Heights	1.04	2-4"	1.04-1	13.20 kv	
41	Middleton Danvers Tie	0.09	2-6"	09-3	23.00 kv	
<b>TOTALS</b>		<b>14.82</b>				

\*Indicate number of conductors per cable.



**STREET LAMPS CONNECTED TO SYSTEM**

Line No.	City or Town (a)	Total (b)	TYPE							
			Incandescent		Mercury Vapor		LED		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Middleton	1,043	0	0	0	0	944	0	99	0
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52	<b>TOTALS</b>	<b>1,043</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>944</b>	<b>0</b>	<b>99</b>	<b>0</b>

**RATE SCHEDULE INFORMATION**

1. Attach copies of all Filed Rates for General Consumers.
2. Show below the changes in rate schedules during year and the estimated increase or decrease in annual revenue predicted on the previous year's operations.

Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect of Annual Revenues	
			Increases	Decrease
		No changes		

**THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY**

.....

*Mayor*

**Michael Cloutier**

*Manager of Electric Light*

.....

**Charles Cinch, II**

.....

**James Carbone**

**Selectmen  
or  
Members  
of the  
Municipal  
Light  
Board**

.....

**Timothy Houten**

.....

**Frank Twiss**

.....

**James Keloy**

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

.....  
*Mayor*



Michael Cloutier

*Manager of Electric Light*



Charles Cinch, II



James Carbone

Timothy Houten



Frank Twiss

.....  
Selectmen  
or  
Members  
of the  
Municipal  
Light  
Board

.....  
James Koloy

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