

THE COMMONWEALTH OF MASSACHUSETTS

RETURN

OF THE

TOWN OF READING MUNICIPAL LIGHT DEPARTMENT

TO THE

**DEPARTMENT OF
PUBLIC UTILITIES**

OF MASSACHUSETTS

FOR THE YEAR ENDED DECEMBER 31,

2012

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

Vincent F. Cameron, Jr.

Official Title: **General Manager**

Office Address: **230 Ash Street**

Reading, MA. 01867

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GENERAL INFORMATION

- | | |
|--|---|
| 1. Name of town (or city) making this report. | Town of Reading |
| 2. If the town (or city) has acquired a plant,
Kind of plant, whether gas or electric. | Electric |
| Owner from whom purchased, if so acquired. | Created in 1894 |
| 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, 14 Second vote: Yes, 361 ; No, 21 | |
| Date when town (or city) began to sell electricity, | 1895 |
| 3. Name and address of acting general manager of municipal lighting: | Vincent F. Cameron, Jr.
230 Ash Street
Reading, MA. 01867 |
| 4. Name and address of mayor or selectman

Camille W. Anthony, Vice Chairman | Stephen Goldy, Chairman
Ben Tafoya, Vice Chairman
Richard W. Schubert, Secretary
John Arena
James E. Bonazoli |
| 5. Name and address of town (or city) treasurer: | Nancy J. Heffernan
16 Lowell Street
Town Hall
Reading, MA. 01867 |
| 6. Name and address of town (or city) clerk: | Laura A. Gemme
16 Lowell Street
Town Hall
Reading, MA. 01867 |
| 7. Names and addresses of members of municipal light board: | Philip B. Pacino, Chairman
Gina Snyder, Vice Chairman
Marsie West, Secretary
Robert H. Soli
John Stempeck |
| 8. Total valuation of estates in town (or city) according to last state valuation | \$3,686,637,528.00 |
| 9. Tax rate for all purposes during the year: | \$14.94 |
| 10. Amount of manager's salary: | \$179,338.00 |
| 11. Amount of manager's bond: | \$50,000.00 |
| 12. Amount of salary paid to members of municipal light board (each) | \$0.00 |

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

INCOME FROM PRIVATE CONSUMERS:		
1	From sales of gas.....	
2	From sales of electricity	81,360,940.00
3		
4	TOTAL	81,360,940.00
5	Expenses:	
6	For operation, maintenance and repairs.....	76,491,206.00
7	For interest on bonds, notes or scrip.....	
8	For depreciation fund (3% on \$121,666,666.00).....	3,650,000.00
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	
12	For loss in preceding year.....	
13		
14	TOTAL	80,141,206.00
15	Cost:	
16	Of gas to be used for municipal buildings.....	
17	Of gas to be used for street lights.....	
18	Of electricity to be used for municipal buildings.....	
19	Of electricity to be used for street lights.....	
20	Total of the above items to be included in the tax levy.....	
21		
22	New construction to be included in the tax levy.....	
23	Total amounts to be included in the tax levy.....	

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, Dec 31.	City or Town	Number of Customers' Meters, Dec 31.
		Reading	10,136
		Lynnfield	3,126
		North Reading	6,704
		Wilmington	9,281
		Co-Op Resale	21
		TOTAL	29,268

APPROPRIATIONS SINCE BEGINNING OF YEAR

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

FOR CONSTRUCTION OR PURCHASE OF PLANT:

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

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

1. Street Lights.....	\$	_____
2. Municipal Buildings.....	\$	_____

*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:

SEE ATTACHED SCHEDULE

In gas property:

READING MUNICIPAL LIGHT DEPARTMENT

2012 CALENDAR YEAR CONSTRUCTION HIGHLIGHTS

PEAK DEMAND

The Reading Municipal Light Department's (RMLD) system peak demand in calendar year 2012 was 163,785 kW, occurring on Tuesday, July 17 at 5:00 pm. This was 5.05% lower than the highest peak demand of 172,493 kW, set in August 2006. The RMLD purchased 719,516,283 kWh which represents a decrease of 0.495% over 2011.

LINE CONSTRUCTION

Line construction throughout the system is performed to provide reliability enhancement, to connect new loads, or to address areas needing upgrades. This work includes both overhead and underground cable installation, service installation and upgrades, installation and removal of poles, transfers of electrical equipment, and performing work related to Massachusetts Highway Projects.

READING

Circuit Upgrades:

- Approximately 2,500 circuit feet of primary and secondary cable was installed on Forest Street as part of an area upgrade project.
- Approximately 2,000 feet of primary and secondary cable was installed on Pearl Street as part of an area upgrade project.
- Approximately 5,300 feet of primary cable was installed in the Beaver Road area as part of an area upgrade project.
- Approximately 2,300 feet of primary cable was installed in the Timberneck and Richards Road area as part of an area upgrade project.
- Approximately 1,800 feet of primary cable was installed in the Pine, Warren, and Maple Street area as part of an area upgrade project.
- Approximately 800 feet of secondary cable was installed on Belmont Street as part of an area upgrade project.

Commercial/Industrial:

Notable examples of new service additions or upgrades:

Calareso's – 122 Main Street

WILMINGTON

Circuit Upgrades:

- Approximately 5,500 feet of primary and secondary cable was installed in the Old Shawsheen Avenue and Grand Street area as part of an upgrade project.
- Approximately 1,200 feet of primary cable was installed on Houghton Road and Hardin Street as part of an area upgrade project.
- Approximately 3,200 feet of secondary cable was installed on Andover Street as part of an area upgrade project.

Commercial/Industrial:

Notable examples of new service additions or upgrades:

Commercial Building – 1 Cornell Place

NORTH READING

Circuit Upgrades:

- Approximately 3,500 circuit feet of primary cable was installed in Tower Hill Road area as part of an area upgrade project.
- Approximately 3,200 circuit feet of primary and secondary cable was installed on Nutter Road as part of an area upgrade project.
- Approximately 800 feet of secondary cable was installed on Devons Road as part of an area upgrade project.

Circuit Extensions:

- Primary Extension: 450 feet of primary cable was installed on Plymouth Street.

Commercial/Industrial:

Notable examples of new service additions or upgrades:

Heav'nly Donut – 66 Winter Street

LYNNFIELD CENTER

Circuit Upgrades:

- Approximately 3,100 circuit feet of primary and secondary cable was installed on Homestead Road as part of an area upgrade project.
- The Department upgraded the underground distribution system on Needham and Townsend Roads. This included the installation of seven (7) manholes and the replacement of 4,500 feet of conduit, 3,000 feet of primary cable, 1,200 feet of secondary cable and five (5) pad-mounted transformers.

Commercial/Industrial:

There were no notable new service additions or upgrades

SPECIAL PROJECTS

As part of the ongoing Station 4 maintenance and upgrade program, the Department replaced 111, 115 kV insulators and four (4) sets of 115 kV disconnects. The Department also replaced the legacy remote terminal unit (RTU) at Station 4, with Survalent's Scout Station Controller. This controller will enhance the communication functionality between the microprocessor based relays and the Department's Supervisory Control and Data Acquisition (SCADA) system.

The Department also created a fixed network meter data collection system. The backbone of this Itron fixed network system was created by expanding the existing fiber optic network that the Department installed in the late 1990's. This network was created by establishing nodes on the fiber optic network throughout the service territory. These fiber optic nodes are used to back haul all the meter data to the Department's computer network.

Renewable/Green Energy Customers:

The RMLD is working with customers who wish to install renewable/green energy products. In 2012 photovoltaic systems were added at the following residential locations: Old Andover Road, North Reading, and Apache Way, Wilmington. Additionally, two commercial locations in North Reading added solar components: Columbia Construction (75 kW) and Teradyne (600 kW). This brings the total for residential renewable energy homes in the RMLD service territory that generate green energy into the RMLD power grid to 15, and two (2) commercial sites.

CUSTOMER CALLS

The Department answered approximately 1,564 trouble calls that were of a routine or emergency nature. A summary of the reasons for these calls include: house service difficulties, trees interfering with power lines, utility poles hit by vehicles, animal contact with energized lines, and transformer and equipment problems for miscellaneous reasons. There were 32 pole damage cases as a result of motor vehicle accidents. The Department also answered over 1,500 additional calls related to Hurricane Sandy.

POLE REPLACEMENTS

The Department completed approximately 80 pole installations and replacements. Many of these were in connection with the RMLD circuit upgrade projects throughout the service area.

DIGSAFE

The RMLD marked out underground facilities locations for 1,368 DIGSAFE calls.

METERS

Between the Meter and Line Departments, service upgrades, new construction, and renovations resulted in a total of 522 new overhead and underground residential and commercial/industrial services delineated as follows:

- Reading – 404 residential and 20 commercial/industrial
- Lynnfield – nine (9) residential and one (1) commercial/industrial
- North Reading – 14 residential and nine (9) commercial/industrial
- Wilmington – 32 residential and 33 commercial/industrial

A total of 459 new residential services represent a 90% increase over new residential services (242) in 2011. A total of 63 commercial/industrial services were installed representing a 40% increase over the previous year's total of 45.

Ten thousand, one hundred and twenty (10,120) meters were replaced as part of the residential meter upgrade project and due to routine meter replacements.

TREE TRIMMING AND PREVENTATIVE MAINTENANCE

In 2012 the RMLD continued its preventive maintenance, tree-trimming program. Two tree crews concentrated on feeder maintenance and customer calls. The RMLD continues to use an arborist to identify where eminent tree/wire conflicts and hazards may exist so that the RMLD can take a targeted and prioritized approach to correcting these conditions and eliminating a potential outage situation.

COMPARATIVE SYSTEM PERFORMANCE STATISTICS

The RMLD continues to utilize Customer Average Interruption Index (CAIDI) and System Average Interruption Frequency Index (SAIFI) data established for the period of 2006 to 2009. The CAIDI index is a measure of reliability for how long customers are without power during an interruption in service. The SAIFI index is a measure of how often customers experience an interruption in service. The number of Months Between Interruptions (MBTI) is a measurement of the monthly SAIFI total divided by twelve (months), representing the annual average. In 2012, the CAIDI rolling average was 55.92 minutes of outage and the SAIFI rolling average was 0.31, meaning on average an RMLD customer experiences an outage of 55.92 minutes every 39 months.

The SAIFI index continues to have a favorable reduction in the frequency of outage events from a service territory perspective. The downward trend of SAIFI is a direct result of system maintenance and upgrades tied to specific areas of the system that have experienced more frequent outages, enabling the RMLD to continue providing the most reliable service possible.

FLEET & FACILITIES

Fleet:

In 2012 RMLD received three (3) new Line Department vehicles:

- (1) 50-foot material handler line truck received in August
- (1) 55-foot bucket truck received in October
- (1) overhead/underground pulling trailer received in October

In November 2012 RMLD entered into a contract with Sauber Manufacturing Company to purchase a new pole trailer.

The Facilities group completed dielectric testing of 17 Line Department vehicles. The Facilities group also performed preventive maintenance of 19 Line Department vehicles to ensure proper operation of the mechanical and lift equipment for daily operation and in advance of significant weather events. It should be noted that during Hurricane Sandy all Line Department vehicles maintained proper operation with only a few minor issues. In addition, preventative maintenance was performed on 22 light-duty trucks and cars during the year.

To maintain proper communication, the radio system is maintained twice during the year, once in the spring and again in the fall.

Facilities:

The Facilities group, working in partnership with Menders, Torrey & Spencer, Inc., an architecture, planning and preservation firm, completed a feasibility study of the RMLD Station 1 building originally built in 1894. The study focuses on preserving the exterior character of the building and maintaining the structure for future use.

BONDS

When Authorized*	Date of issue	Amount of Original Issue	(Issued on Account of Gas or Electric Lighting)		Rate	Interest When Payable	Amount Outstanding
			Period of Payments				
			Amounts	When Payable			
Aug-1894	Oct 1894	50,000.00					
May-1907	Oct-1907	26,000.00					
Jun-1911	Jul-1911	20,000.00					
Aug-1913	Oct-1913	23,500.00					
Sep-1914	Sep-1914	8,000.00					
Mar-1916	May-1916	10,000.00					
Mar-1917	Oct-1917	55,000.00					
Oct-1918	Jan-1919	12,000.00					
Mar-1919	Apr-1919	20,000.00					
Mar-1917	May-1920	20,000.00					
Dec-1923	Dec-1924	10,000.00					
Mar-1928	Aug-1927	13,000.00					
Mar-1930	Jun-1930	15,000.00					
Mar-1931	Apr-1931	40,000.00					
Jan-1951	Oct-1951	150,000.00					
Dec-1952	Jul-1953	150,000.00					
Mar-1955	Dec-1955	125,000.00					
Mar-1956	Sep-1956	600,000.00					
Mar-1970	Nov-1970	600,000.00					
Mar-1970	Aug-1979	1,000,000.00					
Feb-1991	Feb-1991	3,465,000.00					
Dec-1992	Dec-1992	1,860,000.00	210,000.00	February 15	4.10	February 15; August 15	0.00
Jul-1996	Jul-1996	2,978,000.00	296,000.00	July 1	4.83	January 1; July 1	0.00
Dec-1999	Dec-1999	5,500,000.00	550,000.00	September 1	4.57	March 1; September 1	0.00
TOTAL		16,750,500.00	1,056,000.00				

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

TOWN NOTES

(Issued on Account of Gas or Electric Lighting)

When Authorized	Date of Issue	Amount of Original Issue	Period of Payments		Rate	Interest When Payable	Amount of Outstanding at End of Year
			Amounts	When Payable			
Mar-1896	Mar-1896	7,000.00					
Dec-1896	Dec-1896	1,500.00					
Mar-1898	Jul-1898	3,000.00					
Mar-1903	Dec-1903	1,400.00					
Mar-1909	Nov-1909	2,500.00					
Jan-1909	Jan-1910	1,800.00					
Jan-1910	Mar-1910	12,000.00					
Mar-1911	Jul-1911	2,200.00					
Mar-1913	Apr-1913	13,500.00					
Mar-1915	May-1915	12,000.00					
Mar-1915	Jul-1915	4,000.00					
Mar-1917	Sep-1917	6,500.00					
Nov-1919	Nov-1919	3,000.00					
Mar-1921	Jul-1921	7,000.00					
Dec-1922	Dec-1922	7,000.00					
May-1934	May-1934	20,000.00					
Mar-1935	Jun-1935	20,000.00					
Mar-1937	Apr-1937	60,000.00					
Jun-1939	Nov-1939	25,000.00					
Mar-1939	Jul-1939	15,000.00					
Jun-1939	Jul-1939	36,000.00					
Mar-1941	May-1941	21,000.00					
Mar-1941	May-1941	10,000.00					
Dec-1948	Mar-1949	80,000.00					
Nov-1985	Dec-1985	183,427.05					
Aug-1992	Aug-1992	680,000.00					
Apr-1994	Apr-1994	2,000,000.00					
Aug-1995	Aug-1995	1,090,000.00					
TOTAL		4,324,827.05					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

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

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

TOTAL COST OF PLANT - ELECTRIC (Continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams and Waterways						
5	333 Water wheels, Turbines and Generators.....						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads and Bridges.....						
9	Total Hydraulic Production Plant						
10	D. Other Production Plant						
11	340 Land and Land Rights.....						
12	341 Structures and Improvements.....						
13	342 Fuel Holders, Producers and Accessories.....						
14	343 Prime Movers.....						
15	344 Generators.....						
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	Total Other Production Plant						
19	Total Production Plant						
20	3. Transmission Plant						
21	350 Land and Land Rights.....	25,016.00					25,016.00
22	351 Clearing Land and Rights of Way						
23	352 Structures and Improvements.....	1,584,212.00					1,584,212.00
24	353 Station Equipment.....	5,774,683.00					5,774,683.00
25	354 Towers and Fixtures.....	86,169.00					86,169.00
26	355 Poles and Fixtures.....	105,937.00					105,937.00
27	356 Overhead Conductors and Devices..	84,890.00					84,890.00
28	357 Underground Conduits.....	44,048.00					44,048.00
29	358 Underground Conductors and Devices	38,468.00					38,468.00
30	359 Roads and Trails.....						
31	Total Transmission Plant	7,743,423.00	0.00	0.00	0.00	0.00	7,743,423.00

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)
	Balance carried over from page 8A	7,743,423.00	0.00	0.00	0.00	0.00	7,743,423.00
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights	843,454.00					843,454.00
3	361 Structures and Improvements	4,627,755.00	564,749.00	187,000.00			5,005,504.00
4	362 Station Equipment	9,851,182.00	66,556.00	(283,167.00)			10,200,905.00
5	363 Storage Battery Equipment	37,050.00	403.00				37,453.00
6	364 Poles, Towers and Fixtures	22,407,588.00	2,152,712.00	112,242.00			24,448,058.00
7	365 Overhead Conductors and Devices	16,548,309.00	812,675.00	189,328.00			17,171,656.00
8	366 Underground Conduits	7,385,004.00	292,462.00	808.00			7,676,658.00
9	367 Underground Conductors & Devices	8,096,859.00	279,547.00	101,975.00			8,274,431.00
10	368 Line Transformers	9,311,954.00	176,354.00	161,629.00			9,326,679.00
11	369 Services	5,434,535.00	112,540.00				5,547,075.00
12	370 Meters	4,348,632.00	1,513,505.00	981,223.00			4,880,914.00
13	371 Installation on Cust's Premises	0.00					0.00
14	372 Leased Prop. on Cust's Premises	0.00					0.00
15	373 Street Light and Signal Systems	2,484,776.00	65,578.00	40,842.00			2,509,512.00
16	Total Distribution Plant	91,377,098.00	6,037,081.00	1,491,880.00			95,922,299.00
17	5. GENERAL PLANT						
18	389 Land and Land Rights	397,372.00					397,372.00
19	390 Structures and Improvements	7,508,013.00	26,996.00				7,535,009.00
20	391 Office Furniture and Equipment	6,559,046.00	119,800.00	6,950.00			6,671,896.00
21	392 Transportation Equipment	4,511,395.00	31,544.00	138,178.00			4,404,761.00
22	393 Stores Equipment	105,376.00					105,376.00
23	394 Tools, Shop and Garage Equipment	505,780.00					505,780.00
24	395 Laboratory Equipment	468,916.00					468,916.00
25	396 Power Operated Equipment	0.00					0.00
26	397 Communication Equipment	2,329,314.00	65,304.00				2,394,618.00
27	398 Miscellaneous Equipment	125,034.00	5,639.00				130,673.00
28	399 Other Tangible Property	0.00					0.00
29	Total General Plant	22,510,246.00	249,283.00	145,128.00			22,614,401.00
30	Total Electric Plant in Service	121,630,767.00	6,286,364.00	1,637,008.00	0.00	0.00	126,280,123.00
31							
32							
33							
34							
		TOTAL COST OF PLANT					
				Less Cost of Land, Land Rights, and Rights of Way			1,265,842.00
				Total Cost upon which depreciation is based			125,014,281.00

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	Increase or (Decrease)
1	UTILITY PLANT			
2	101 Utility Plant -Electric.....	67,738,264.00	69,851,692.00	2,113,428.00
3	101 Utility Plant- Gas.....			
4	123 Investment in Associated Companies.....	73,766.00	46,958.00	(26,808.00)
5	Total Utility Plant.....	67,812,030.00	69,898,650.00	2,086,620.00
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds.....	0.00	0.00	0.00
13	126 Depreciation Fund (P. 14).....	4,125,757.00	3,458,261.00	(667,496.00)
14	128 Other Special Funds.....			
15	Total Funds.....	4,125,757.00	3,458,261.00	(667,496.00)
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P. 14).....	22,569,106.00	24,731,039.00	2,161,933.00
18	132 Special Deposits.....	600,919.00	659,170.00	58,251.00
19	132 Working Funds.....	3,000.00	3,000.00	0.00
20	141 Notes and Receivables.....			
21	142 Customer Accounts Receivable.....	8,075,808.00	7,993,773.00	(82,035.00)
22	143 Other Accounts Receivable.....	159,769.00	183,499.00	23,730.00
23	146 Receivables from Municipality.....			
24	151 Materials and Supplies (P. 14).....	1,435,378.00	1,456,654.00	21,276.00
25				
26	165 Prepayments.....	1,972,760.00	1,975,135.00	2,375.00
27	174 Miscellaneous Current Assets			
28	Total Current and Accrued Assets...	34,816,740.00	37,002,270.00	2,185,530.00
29	DEFERRED DEBITS			
30	181 Unamortized Debt Discount.....	0.00	0.00	0.00
31	182 Extraordinary Property Debits.....			
32	185 Other Deferred Debits.....	298,213.00	1,053,547.00	755,334.00
33	Total Deferred Debits.....	298,213.00	1,053,547.00	755,334.00
34				
35	Total Assets and Other Debits.....	107,052,740.00	111,412,728.00	4,359,988.00

COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End Year	Increase or (Decrease)
1	APPROPRIATIONS			
2	201 Appropriations for Construction.....			
3	SURPLUS			
4	205 Sinking Fund Reserves.....	119,304.00	119,304.00	0.00
5	206 Loans Repayment.....	15,403,000.00	15,403,000.00	0.00
6	207 Appropriations for Construction Repayment..			
7	208 Unappropriated Earned Surplus (P. 12).....	72,454,659.00	75,879,331.00	3,424,672.00
8	Total Surplus.....	87,976,963.00	91,401,635.00	3,424,672.00
9	LONG TERM DEBT			
10	221 Bonds (P. 6).....	0.00	0.00	0.00
11	231 Notes Payable (P. 7).....			
12	Total Bonds and Notes.....	0.00	0.00	0.00
13	CURRENT AND ACCRUED LIABILITIES			
14	232 Accounts Payable.....	5,858,462.00	6,467,114.00	608,652.00
15	234 Payables to Municipality.....			
16	235 Customer Deposits.....	600,919.00	659,170.00	58,251.00
17	236 Taxes Accrued.....			
18	237 Interest Accrued.....	1,220,684.00	1,388,110.00	167,426.00
19	242 Miscellaneous Current and Accrued Liabilities	2,934,699.00	2,986,360.00	51,661.00
20	Total Current and Accrued Liabilities...	10,614,764.00	11,500,754.00	885,990.00
21	DEFERRED CREDITS			
22	251 Unamortized Premium on Debt.....			
23	252 Customer Advance for Construction.....	324,606.00	394,781.00	70,175.00
24	253 Other Deferred Credits.....			
25	Total Deferred Credits	324,606.00	394,781.00	70,175.00
26	RESERVES			
27	260 Reserves for Uncollectable Accounts.....	299,899.00	254,070.00	(45,829.00)
28	261 Property Insurance Reserve.....			
29	262 Injuries and Damages Reserves.....			
30	263 Pensions and Benefits.....			
31	265 Miscellaneous Operating Reserves.....			
32	Total Reserves.....	299,899.00	254,070.00	(45,829.00)
33	CONTRIBUTIONS IN AID OF CONSTRUCTION			
34	271 Contributions in Aid of Construction.....	7,836,508.00	7,861,488.00	24,980.00
35	Total Liabilities and Other Credits	107,052,740.00	111,412,728.00	4,359,988.00

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.

STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Current Year	Increase or (Decrease) from Preceding Year
1	OPERATING INCOME		
2	400 Operating Revenue (P. 37)	81,950,020.00	(4,434,972.00)
3	Operating Expenses:		
4	401 Operation Expense (P. 42).....	69,447,446.00	(4,572,930.00)
5	402 Maintenance Expense (P. 42).....	2,524,707.00	(1,056,825.00)
6	403 Depreciation Expense	3,608,980.00	106,441.00
7	407 Amortization of Property Losses.....		
9	408 Taxes (P. 49).....	1,354,765.00	10,509.00
10	Total Operating Expenses.....	76,935,898.00	(5,512,805.00)
11	Operating Income.....		
12	414 Other Utility Operating Income (P. 50).....		
13			
14	Total Operating Income.....	5,014,122.00	1,077,833.00
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)....	237,855.00	101,588.00
17	419 Interest Income.....	49,287.00	(50,851.00)
18	421 Miscellaneous Income.....		
19	Total Other Income.....	287,142.00	50,737.00
20	Total Income.....	5,301,264.00	1,128,570.00
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Change in Accounting Principle.....		
23	426 Other Income Deductions.....		
24	Total Income Deductions.....	0.00	0.00
25	Income before Interest Charges.....	5,301,264.00	1,128,570.00
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes.....		
28	428 Amortization of Debt Discount and Expense.....		
29	429 Amortization of Premium on Debt.....		
30	431 Other Interest Expense.....	(659.00)	903.00
31	432 Interest Charged to Construction-Credit.....		
32	Total Interest Charges	(659.00)	903.00
33	Net Income.....	5,301,923.00	1,127,667.00

EARNED SURPLUS

Line No.	Account (a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of period).....		72,454,659.00
35			
36			
37	433 Balance Transferred from Income.....		5,301,923.00
38	434 Miscellaneous Credits to Surplus (P. 21).....		869,997.00
39	435 Miscellaneous Debits to Surplus (P. 21).....	563,957.00	
40	436 Appropriations of Surplus (P. 21).....	2,235,692.00	
41	437 Surplus Applied to Depreciation.....		52,401.00
42	208 Unappropriated Earned Surplus (at end of period).....	75,879,331.00	
43			
44	TOTALS	78,678,980.00	78,678,980.00

CASH BALANCES AT END OF YEAR (Account 131)

Line No.	Items (a)	Amount (b)
1	Operation Fund.....	24,731,039.00
2	Interest Fund.....	
3	Bond Fund.....	
4	Construction Fund.....	
5		
6		
7		
8		
9		
10		
11		
12	TOTAL	

**MATERIALS AND SUPPLIES (Account 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).....	1,456,654.00			
14	Fuel Stock Expenses (Account 152).....				
15	Residuals (Account 153).....				
16	Plant Materials and Operating Supplies (Account 154).....				
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	Total per Balance Sheet			1,456,654.00	

Depreciation Fund Account (Account 126)

Line No.	(a)	Amount (b)
24	DEBITS	
25	Balance of Account at Beginning of Year.....	4,058,361.00
26	Income During Year from Balance on Deposit.....	3,830.00
27	Amount Transferred from Income.....	3,608,980.00
28	TOTAL	7,671,171.00
29		
30	CREDITS	
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.).....	4,212,910.00
32	Amounts Expended for Renewals.....	
33	Adjustment.....	
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year.....	
40	TOTAL	3,458,261.00

UTILITY PLANT - ELECTRIC (continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	c. Hydraulic Production Plant						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators.....						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads and Bridges...						
9	Total Hydraulic Production Plant						
10	D. Other Production Plant						
11	340 Land and Land Rights.....						
12	341 Structures and Improvements.....						
13	342 Fuel Holders, Producers and Accessories.....						
14	343 Prime Movers.....						
15	344 Generators.....						
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	Total Other Production Plant						
19	Total Production Plant						
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....	25,015.00					25,015.00
22	351 Clearing Land and Rights of Way..	0.00					0.00
23	352 Structures and Improvements.....	808,180.00		28,379.00			779,801.00
24	353 Station Equipment.....	4,894,314.00		143,423.00			4,750,891.00
25	354 Towers and Fixtures.....	0.00					0.00
26	355 Poles and Fixtures.....	0.00					0.00
27	356 Overhead Conductors and Device..	22,607.00		1,122.00			21,485.00
28	357 Underground Conduits.....	9,376.00		(315.00)			9,691.00
29	358 Underground Conductors and Dev..	5,206.00		1,154.00			4,052.00
30	359 Roads and Trails.....	0.00					0.00
31	Total Transmission Plant	5,764,698.00	0.00	173,763.00	0.00	0.00	5,590,935.00

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.....	843,454.00					843,454.00
3	361 Structures and Improvements.....	2,607,124.00	564,749.00	130,498.00			3,041,375.00
4	362 Station Equipment.....	4,991,610.00	66,556.00	182,937.00			4,875,229.00
5	363 Storage Battery Equipment.....	17,562.00	403.00	1,116.00			16,849.00
6	364 Poles and Fixtures.....	15,368,918.00	2,152,712.00	607,430.00			16,914,200.00
7	365 Overhead Conductors and Devices.....	14,011,674.00	812,675.00	456,216.00			14,368,133.00
8	366 Underground Conduits.....	3,438,183.00	292,462.00	209,523.00			3,521,122.00
9	367 Underground Conductors and Devices	4,329,749.00	279,547.00	241,277.00			4,368,019.00
10	368 Line Transformers.....	4,795,469.00	176,354.00	279,287.00		31,901.00	4,660,635.00
11	369 Services.....	2,233,471.00	112,540.00	163,561.00			2,182,450.00
12	370 Meters.....	2,520,876.00	1,513,505.00	121,178.00		532,055.00	3,381,148.00
13	371 Installation on Cust's Premises....						
14	372 Leased Prop. on Cust's Premises.						
15	373 Street Light and Signal Systems.....	823,958.00	65,578.00	74,381.00			815,155.00
16	Total Distribution Plant	55,982,048.00	6,037,081.00	2,467,404.00	0.00	563,956.00	58,987,769.00
17	5. GENERAL PLANT						
18	389 Land and Land Rights.....	397,372.00	0.00				397,372.00
19	390 Structures and Improvements.....	2,952,916.00	26,996.00	234,105.00			2,745,807.00
20	391 Office Furniture and Equipment.....	254,916.00	119,800.00	212,052.00			162,664.00
21	392 Transportation Equipment.....	1,099,592.00	31,544.00	396,219.00			734,917.00
22	393 Stores Equipment.....	29,014.00	0.00	6,391.00			22,623.00
23	394 Tools, Shop and Garage Equipment.	12,240.00	0.00	5,504.00			6,736.00
24	395 Laboratory Equipment.....	187,672.00	0.00	19,816.00			167,856.00
25	396 Power Operated Equipment.....						
26	397 Communication Equipment.....	1,045,433.00	65,304.00	91,279.00			1,019,458.00
27	398 Miscellaneous Equipment.....	12,363.00	5,639.00	2,447.00			15,555.00
28	399 Other Tangible Property.....						
29	Total General Plant	5,991,518.00	249,283.00	967,813.00	0.00	0.00	5,272,988.00
30	Total Electric Plant in Service	67,738,264.00	6,286,364.00	3,608,980.00	0.00		69,851,692.00
31	104 Utility Plant Leased to Others.....	0.00					0.00
32	105 Property Held for Future Use.....	0.00					0.00
33	107 Construction Work in Progress.....	0.00					0.00
34	Total Utility Electric Plant	67,738,264.00	6,286,364.00	3,608,980.00	0.00	0.00	69,851,692.00

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

MISCELLANEOUS NON-OPERATING INCOME (Account 421)

Line No.	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6	TOTAL	

OTHER INCOME DEDUCTIONS (Account 426)

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

MISCELLANEOUS CREDITS TO SURPLUS (Account 434)

Line No.	Item (a)	Amount (b)
15		
16	Various Refunds (MMWEC)	869,997.00
17		
18		
19		
20		
21		
22		
23	TOTAL	869,997.00

MISCELLANEOUS DEBITS TO SURPLUS (Account 435)

Line No.	Item (a)	Amount (b)
24		
25		
26	Loss on Disposal of Electric Plant Utility	563,957.00
27		
28		
29		
30		
31		
32	TOTAL	563,957.00

APPROPRIATIONS OF SURPLUS (Account 436)

Line No.	Item (a)	Amount (b)
33		
34	Transfer to Town of Reading	2,235,692.00
35		
36		
37		
38		
39		
40	TOTAL	2,235,692.00

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					
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					
7					
8					
9	444	Municipal: (Other than Street Lighting)	23,809,976	2,689,090.00	0.1129
10					
11					
12					
13		Municipal Street Lighting	2,856,679	330,761.00	0.1158
14					
15					
16					
17					
18					
19					
TOTALS			26,666,655	3,019,851.00	0.1132

PURCHASED POWER (Account 555)

Line No.	Names of Utilities from which Electric Energy is Purchased (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Cost per K.W.H. cents [0.0000] (e)
20	MMWEC Projects Total		137,976,174	12,693,596.00	0.0920
21	J P Morgan		104,754,720	5,827,908.00	0.0556
22	Constellation		114,098,400	8,175,763.00	0.0717
23	HQ Phase 2 Companies		0	244,701.00	0.0000
24	ISO-NE/REMVEC		109,858,664	15,488,471.00	0.1410
25	MacQuarie		228,564,800	14,469,099.00	0.0000
27	National Grid		42,241	6,542.00	0.1549
28	Middleton		1,098,393	145,831.00	0.1328
29	Braintree Watson		6,200,848	1,727,849.00	0.2786
30	Swift River Projects		16,922,043	1,667,208.00	0.0985
31	Deferred Fuel		0	(755,343.00)	0.0000
TOTALS			719,516,283	59,691,625.00	0.0830

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 (d)	Revenues per K.W.H. [cents] [0.0000] (e)
32	NStar	Customer Premises	4,701,560	384,339.00	0.0817
33	National Grid	Customer Premises	225,284	18,068.00	0.0802
34	Town of Wakefield	Customer Premises	786,164	66,887.00	0.0851
35	Town of Middleton	Customer Premises	12,724	1,072.00	0.0843
36					
37					
38					
39					
40					
41					
TOTALS			5,725,732	470,366.00	0.0821

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)		
SALES OF ELECTRICITY									
1	440 Residential Sales.....	31,591,159.00	(1,656,594.00)	251,735,488	4,995,389	25,758	87		
2	442 Commercial and Industrial Sales:	43,291,308.00	(3,762,998.00)	406,142,305	(4,835,773)	2,865	17		
3	Small (or Commercial) see instr. 5.....								
4	Large (or Industrial) see instr. 5.....								
5	444 Municipal Sales (P.22)	3,019,851.00	(370,797.00)	26,666,655	(436,129)	287	0		
6	445 Other Sales to Public Authorities.....								
7	446 Sales to Railroads and Railways.....								
8	448 Interdepartmental Sales.....								
9	449 Miscellaneous Electric Sales.....	67,558.00	(39,508.00)	879,696	6,737	260	(2)		
10	449.1 Provision for Rate Refunds/PPA.....	1,186,309.00	1,324,073.00						
11	Total Sales to Ultimate Consumers.....	79,156,185.00	(4,505,824.00)	685,424,144	(269,776)	29,171	103		
12	447 Sales for Resale.....	470,366.00	(26,777.00)	5,725,732	(275,858)	21	0		
13	Total Sales of Electricity*.....	79,626,551.00	(4,532,601.00)	691,149,876	(545,634)	29,192	103		
OTHER OPERATING REVENUES									
14	450 Forfeited Discounts.....	933,181.00	(38,517.00)						
15	451 Miscellaneous Service Revenues (ECC).....	695,343.00	178,131.00						
16	453 Sales of Water and Water Power.....								
17	454 Rent from Electric Property.....								
18	455 Interdepartmental Rents.....								
19	456 Other Electric Revenues (GAW).....	694,945.00	(41,985.00)						
20									
21									
22									
23									
24									
25	Total Other Operating Revenues.....	2,323,469.00	97,629.00						
26	Total Electric Operating Revenues.....	81,950,020.00	(4,434,972.00)						
								*Includes revenues from application of fuel clauses	
								Total KWH to which applied	
								33,335,391.00	
								691,149,876	

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 and unbilled sales may be reported separately in total.

Line No.	Account No.	Schedule (a)	K.W.H. (b)	Revenue (c)	Average Revenue per K.W.H. (cents) *(0.0000) (d)	Number of Customers (per Bills Rendered)	
						Jul-12 (e)	Dec-12 (f)
1	Residential - A		251,735,488	31,591,159.00	0.1255	25,753	25,817
2	Industrial - C		406,142,305	43,291,308.00	0.1066	2,867	2,880
3	Municipal - C		23,809,976	2,689,090.00	0.1129	270	271
4	Street Lighting		2,856,679	330,761.00	0.1158	18	18
5	Private Street Lighting		879,696	67,558.00	0.0768	258	261
6							
7	Provision for Purchased Power Adjustments		0	1,186,309.00			
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
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38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48	TOTAL SALES TO ULTIMATE						
49	CONSUMERS (Page 37 Line 11)		685,424,144	79,156,185	0.1155	29,166	29,247

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	POWER PRODUCTION EXPENSE		
2	STEAM POWER GENERATION		
3	Operation:		
4	500 Operation Supervision and Engineering.....		
5	501 Fuel.....		
6	502 Steam Expense.....		
7	503 Steam from Other Sources.....		
8	504 Steam Transferred -- Cr.....		
9	505 Electric Expenses.....		
10	506 Miscellaneous Steam Power Expenses.....		
11	507 Rents.....		
12	Total Operation	0.00	0.00
13	Maintenance:		
14	510 Maintenance Supervision and Engineering.....		
15	511 Maintenance of Structures.....		
16	512 Maintenance of Boiler Plant.....		
17	513 Maintenance of Electric Plant.....		
18	514 Maintenance of Miscellaneous Steam Plant.....		
19	Total Maintenance	0.00	0.00
20	Total Power Production Expenses -- Steam Power	0.00	0.00
21	NUCLEAR POWER GENERATION		
22	Operation:		
23	517 Operation Supervision and Engineering.....		
24	518 Fuel.....		
25	519 Coolants and Water.....		
26	520 Steam Expense.....		
27	521 Steam from Other Sources.....		
28	522 Steam Transferred -- Cr.....		
29	523 Electric Expenses.....		
30	524 Miscellaneous Nuclear Power Expenses.....		
31	525 Rents.....		
32	Total Operation	0.00	0.00
33	Maintenance:		
34	528 Maintenance Supervision and Engineering.....		
35	529 Maintenance of Structures.....		
36	530 Maintenance of Reactor Plant Equipment.....		
37	531 Maintenance of Electric Plant.....		
38	532 Maintenance of Miscellaneous Nuclear Plant.....		
39	Total Maintenance	0.00	0.00
40	Total Power Production Expenses -- Nuclear Power	0.00	0.00
41	HYDRAULIC POWER GENERATION		
42	Operation:		
43	535 Operation Supervision and Engineering.....		
44	536 Water for Power.....		
45	537 Hydraulic Expenses.....		
46	538 Electric Expenses.....		
47	539 Miscellaneous Hydraulic Power Generation Expenses.....		
48	540 Rents.....		
49	Total Operation	0.00	0.00

(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	HYDRAULIC POWER GENERATION - CONTINUED		
2	Maintenance:		
3	541 Maintenance Supervision and Engineering.....		
4	542 Maintenance of Structures.....		
5	543 Maintenance of Reservoirs, Dams and Waterways.....		
6	544 Maintenance of Electric Plant.....		
7	545 Maintenance of Miscellaneous Hydraulic Plant.....		
8	Total Maintenance	0.00	0.00
9	Total Power Production Expenses - Hydraulic Power	0.00	0.00
10	OTHER POWER GENERATION		
11	Operation:		
12	546 Operation Supervision and Engineering.....		
13	547 Fuel.....	33,335,391.00	(4,846,917.00)
14	548 Operation Expenses.....		
15	549 Miscellaneous Other Power Generation Expenses.....		
16	550 Rents.....		
17	Total Operation	33,335,391.00	(4,846,917.00)
18	Maintenance:		
19	551 Maintenance Supervision and Engineering.....		
20	552 Maintenance of Structure.....		
21	553 Maintenance of Generating and Electric Plant.....		
22	554 Maintenance of Miscellaneous Other Power Generation Plant.....		
23	Total Maintenance	0.00	0.00
24	Total Power Production Expenses - Other Power	0.00	0.00
25	OTHER POWER SUPPLY EXPENSES		
26	555 Purchased Power.....	17,301,901.00	(139,663.00)
27	556 System Control and Load Dispatching.....		
28	557 Other Expenses.....	15,503.00	(12,328.00)
29	Total Other Power Supply Expenses	17,317,404.00	(151,991.00)
30	Total Power Production Expenses	50,652,795.00	(4,998,908.00)
31	TRANSMISSION EXPENSES		
32	Operation:		
33	560 Operation Supervision and Engineering.....		
34	561 Load Dispatching.....		
35	562 Station Expenses.....		
36	563 Overhead Line Expenses.....		
37	564 Underground Line Expenses.....		
38	565 Transmission of Electricity by Others.....	9,038,830.00	388,830.00
39	566 Miscellaneous Transmission Expenses.....		
40	567 Rents.....		
41	Total Operation	9,038,830.00	388,830.00
42	Maintenance:		
43	568 Maintenance Supervision and Engineering.....	2,725.00	0.00
44	569 Maintenance of Structures.....		
45	570 Maintenance of Station Equipment.....		
46	571 Maintenance of Overhead Lines.....		
47	572 Maintenance of Underground Lines.....		
48	573 Maintenance of Miscellaneous Transmission Plant.....		
49	Total Maintenance	2,725.00	0.00
50	Total Transmission Expenses	9,041,555.00	388,830.00

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	DISTRIBUTION EXPENSES		
2	Operation:		
3	580 Operation Supervision and Engineering.....	494,794.00	(4,766.00)
4	581 Load Dispatching.....	783,462.00	13,071.00
5	582 Station Expenses.....	480,376.00	11,978.00
6	583 Overhead Line Expenses.....		
7	584 Underground Line Expenses.....		
8	585 Street Lighting and Signal System Expenses.....	102,395.00	(407.00)
9	586 Meter Expenses.....	182,249.00	(99,503.00)
10	587 Customer Installations Expenses.....		
11	588 Miscellaneous Distribution Expenses.....	351,669.00	17,000.00
12	589 Rents.....		
13	Total Operation	2,394,945.00	(62,627.00)
14	Maintenance:		
15	590 Maintenance Supervision and Engineering.....	172,617.00	(7,635.00)
16	591 Maintenance of Structures.....		
17	592 Maintenance of Station Equipment.....		
18	593 Maintenance of Overhead Lines.....	1,452,168.00	(299,434.00)
19	594 Maintenance of Underground Lines.....	180,194.00	(36,240.00)
20	595 Maintenance of Line Transformers.....	49,759.00	(576,354.00)
21	596 Maintenance of Street Lighting and Signal Systems.....		
22	597 Maintenance of Meters.....	56,042.00	(17,933.00)
23	598 Maintenance of Miscellaneous Distribution Plant.....		
24	Total Maintenance	1,910,780.00	(937,596.00)
25	Total Distribution Expenses	4,305,725.00	(1,000,223.00)
26	CUSTOMER ACCOUNTS EXPENSES		
27	Operation:		
28	901 Supervision.....		
29	902 Meter Reading Expenses.....	88,867.00	9,000.00
30	903 Customer Records and Collection Expenses.....	1,470,084.00	141,819.00
31	904 Uncollectable Accounts.....	57,896.00	15,168.00
32	905 Miscellaneous Customer Accounts Expenses.....		
33	Total Customer Accounts Expenses	1,616,847.00	165,987.00
34	SALES EXPENSES		
35	Operation:		
36	911 Supervision.....		
37	912 Demonstrating and Selling Expenses.....		
38	913 Advertising Expenses.....		
39	916 Miscellaneous Sales Expense.....	1,085,716.00	(54,225.00)
40	Total Sales Expenses	1,085,716.00	(54,225.00)
41	ADMINISTRATIVE AND GENERAL EXPENSES		
42	Operation:		
43	920 Administrative and General Expenses.....	745,149.00	16,223.00
44	921 Office Supplies and Expenses.....	248,135.00	260.00
45	922 Administrative Expenses Transferred - Cr.....		
46	923 Outside Services Employed.....	492,904.00	33,275.00
47	924 Property Insurance.....	381,575.00	(3,960.00)
48	925 Injuries and Damages.....	54,474.00	1,366.00
49	926 Employees Pensions and Benefits.....	2,378,517.00	(35,996.00)
50	928 Regulatory Commission Expenses.....		
51	929 Duplicate Charges - Cr.....		
52	930 Miscellaneous General Expenses.....	155,249.00	(26,439.00)
53	931 Rents.....	202,310.00	3,284.00
54	Total Operation	4,658,313.00	(11,987.00)

ELECTRIC OPERATION AND MAINTENANCE EXPENSES -- Continued

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	ADMINISTRATIVE EXPENSES		
2	Maintenance:		
3	932 Maintenance of General Plant.....	611,202.00	(119,229.00)
4	Total Maintenance	611,202.00	(119,229.00)
5	Total Administrative and General Expenses	5,269,515.00	(131,216.00)

SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	OPERATION (b)	MAINTENANCE (c)	TOTAL (d)
6	Power Production Expenses			
7	Electric Generation			
8	Steam Power.....			
9	Nuclear Power.....			
10	Hydraulic Power.....			
11	Other Power.....	33,335,391.00		33,335,391.00
12	Other Power Supply Expenses.....	17,317,404.00		17,317,404.00
13	Total Power Production Expenses	50,652,795.00		50,652,795.00
14	Transmission Expenses.....	9,038,830.00	2,725.00	9,041,555.00
15	Distribution Expenses.....	2,394,945.00	1,910,780.00	4,305,725.00
16	Customer Accounts Expenses.....	1,616,847.00		1,616,847.00
17	Sales Expenses.....	1,085,716.00		1,085,716.00
18	Administrative and General Expenses.....	4,658,313.00	611,202.00	5,269,515.00
19				
20	Total Electric Operation and Maintenance Expenses	69,447,446.00	2,524,707.00	71,972,153.00

- 21 Ratio of Operating Expenses to Operating Revenues (carry out decimal two places, (e.g. 0.00%)
 Compute by dividing Revenues (acct 400) into the sum of Operation and Maintenance Expenses (Page 42,
 Line 20 (d), Depreciation (Acct 403) and Amortization (Acct 407)..... 92.23%
- 22 Total salaries and wages of electric department for year, including amounts charged to oper-
 ating expenses, construction and other accounts..... 7,330,297.71
- 23 Total number of employees of electric department at end of year including administrative,
 operating, maintenance and other employees (including part time employees)..... 74

TAXES CHARGED DURING YEAR

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

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

3. The aggregate of each kind of tax should be listed under the appropriate heading of "Federal," "State," and "Local" in such manner that the total tax for each State and for all subdivisions can readily be ascertained.

4. The accounts to which the taxes charged were distributed should be shown in columns (c) to (h). Show both the utility department and number of account charged. For taxes charged to utility plant show the number of appropriate balance sheet plant account or subaccount.

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

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

Line No.	Kind of Tax (a)	Distribution of Taxes Charged (omit cents)						(j)			
		Total Taxes Charged During Year (omit cents) (b)	Electric (Acct. 408, 409) (c)	Gas (Acct. 408,409) (d)	(e)	(f)	(g)		(h)	(i)	
1											
2											
3											
4	Voluntary Payment to Towns	1,354,765.00	1,354,765.00								
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28	TOTAL		1,354,765.00	1,354,765.00							

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					
14					
15					
16					
17					
18					
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32					
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39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51	TOTALS				

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

Report by utility departments the 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,				
3	Allowances and Returns.....	261,640			261,640
4	Contract Work - Street Lights.....				
5	Commissions.....				
6	Other (List according to major classes)				
7					
8					
9					
10	Total Revenues.....	261,640			261,640
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to major				
15	classes of cost).....	23,785			23,785
16					
17	Labor				
18	Materials				
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	23,785			23,785
51	Net Profit (or Loss)	237,855			237,855

PURCHASED POWER (Account 555)

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.

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.

2. Provide subheadings and classify sales 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

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).

Line No.	Purchased From	Statistical Classification	Import Across State Lines	Point of Receipt	Substation	Kw or Kva Demand (Specify Which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
						(a)	(b)	(c)
1	Peaking Project	O		Town Line		24,981	KW	
2	Intermediate Project	O		Town Line		42,925	KW	
3	Nuclear Mix One - Seabrook	O	X	Town Line		287	KW	
4	Nuclear Mix One - Millstone	O	X	Town Line		2,917	KW	
5	Nuclear Project Three	O	X	Town Line		2,074	KW	
6	Nuclear Project Four	O	X	Town Line		6,650	KW	
7	Nuclear Project Five	O	X	Town Line		805	KW	
8	NYPA	O		Town Line		4,019	KW	
9	JP Morgan	FP	X	Town Line		-		
10	Constellation	FP	X	Town Line		60,000	KW	
11	HQ Phase I Trans Supp VEC	O	X	Town Line		-		
12	HQ Phase I Trans Supp NEE	O	X	Town Line		-		
13	HQ Phase 2	O	X	Town Line		4,584	KW	
14	REMVEC	O	X	Town Line		-		
15	ISO-NE			Town Line		50,974	KW	
16	NEMA Congestion			Town Line		-		
17	MacQuarie	FP/O	X	Town Line		-		
18	Summit Hydro			Town Line		-		
19	National Grid Resales	O		Town Line		-		
20	COOP Resales	O		Town Line		-		
21	Deferred Fuel			Town Line		-		
22	Swift River Hydro Projects	O		Town Line		-		
23	Braintree Watson Unit	O		Town Line		-		
24	Short Term - Purch/Sale	O	X	Town Line		10,520	KW	
25						-		
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
TOTALS						210,736		

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.

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.

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

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.
			Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
60 Minute	115,000	491,968	590,772	85,420	27,185	703,377	1.4297	1
60 Minute	115,000	15,950,748	1,969,748	987,298	34,066	2,991,112	0.1875	2
60 Minute	115,000	1,961,929	236,162	15,990	195	252,347	0.1286	3
60 Minute	115,000	25,368,179	1,853,058	149,482	9,144	2,011,684	0.0793	4
60 Minute	115,000	18,080,363	1,243,032	106,929	6,517	1,356,478	0.0750	5
60 Minute	115,000	44,550,800	3,838,701	362,902	4,439	4,206,042	0.0944	6
60 Minute	115,000	5,495,127	502,854	45,128	548	548,530	0.0998	7
60 Minute	115,000	23,246,949	166,375	113,401	190,232	470,008	0.0202	8
60 Minute	115,000	104,754,720	0	5,827,908	0	5,827,908	0.0556	9
60 Minute	115,000	114,098,400	2,310,000	5,865,763	0	8,175,763	0.0717	10
60 Minute	115,000	0	6,538	0	0	6,538		11
60 Minute	115,000	0	15,400	0	0	15,400		12
60 Minute	115,000	0	222,763	0	0	222,763		13
60 Minute	115,000	0	0	8,103	0	8,103		14
60 Minute	115,000	109,858,664	3,005,111	4,198,709	8,784,583	15,988,403	0.1455	15
60 Minute	115,000	0	0	(508,035)	0	(508,035)		16
60 Minute	115,000	228,564,800	0	14,469,099	0	14,469,099	0.0633	17
60 Minute	115,000	0	0	154,018	0	154,018		18
60 Minute	115,000	42,241	0	6,542	0	6,542	0.1549	19
60 Minute	115,000	1,098,393	0	145,831	0	145,831	0.1328	20
60 Minute	115,000	0	0	(755,343)	0	(755,343)		21
60 Minute	115,000	19,752,154	0	1,667,208	0	1,667,208		22
60 Minute	115,000	6,200,848	1,341,387	389,038	(2,576)	1,727,849	0.2786	23
60 Minute	115,000	0	0	0	0	0		24
								25
								26
								27
								28
								29
								30
								31
								32
								33
								34
								35
								36
								37
								38
								39
								40
								41
TOTALS		719,516,283	17,301,901	33,335,391	9,054,333	59,691,625	0.0830	42

INTERCHANGE POWER (Included in Account 555)

1. Report below the Kilowatt-hours received and delivered during the year and the net charge or credit under interchange power agreements.
 2. Provide subheadings and classify interchanges as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other 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

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	ISO-NE	NO	NEPEX	115,000	109,858,664	109,858,664	15,988,403	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12			TOTALS	109,858,664	0	109,858,664	15,988,403	

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)		Amount (k)
		Adjusted Net Interchange	Adjusted Net Interchange	
13	NEPEX			
14		Kwh Received		109,858,664
15				
16				
17				
18		Kwh Delivered		
19				
20				
21			TOTALS	109,858,664

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)
SOURCES OF ENERGY		
2	Generation (excluding station use):	
3	Steam.....	
4	Nuclear.....	
5	Hydro.....	
6	Other.....	
7	Total generation.....	
8	Purchases.....	609,657,619
9	{ In (gross)	109,858,664
10	Interchanges.....	
11	{ Out (gross)	0
12	{ Net (Kwh).....	
13	Transmission for/by others (Wheeling..	
14	{ Delivered.....	
14	{ Net (kwh).....	
15	TOTAL	719,516,283
DISPOSITION OF ENERGY		
17	Sales to ultimate consumers (including interdepartmental sales).....	685,424,144
18	Sales for resale.....	5,725,732
19	Energy furnished without charge	
20	Energy used by the company (excluding station use).....	
21	Electric department only.....	819,720
22	Energy losses:	
23	Transmission and conversion losses.....	27,546,687
24	Distribution losses.....	
25	Unaccounted for losses.....	0
26	Total energy losses.....	27,546,687
27	Energy losses as percent of total on line 15.....	3.83%
28	Losses within RMLD system.....	0.00%
	TOTAL	719,516,283

MONTHLY PEAKS AND OUTPUT

- 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.
- Monthly peak col. (b) should be respondent's maximum Kw load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange minus temporary deliveries (not interchange) or 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.
- State type of monthly peak reading (instantaneous 15, 30, or 60 minute integrated.)
- 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.
- If the respondent has two or more power systems and physically connected, the information called for below should be furnished for each system.

System

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	106,558	Monday	16	1800	Integrated	59,461,616
30	February	100,453	Wednesday	29	1900	Integrated	55,773,395
31	March	100,894	Thursday	1	1900	Integrated	55,964,582
32	April	104,469	Monday	16	1700	Integrated	52,482,025
33	May	105,445	Thursday	24	1500	Integrated	56,256,275
34	June	163,070	Thursday	21	1700	Integrated	62,652,099
35	July	163,785	Tuesday	17	1700	Integrated	73,790,509
36	August	153,945	Friday	3	1600	Integrated	74,716,651
37	September	129,569	Friday	7	1700	Integrated	58,537,450
38	October	95,568	Monday	15	1900	Integrated	55,581,443
39	November	102,944	Tuesday	27	1900	Integrated	55,045,031
40	December	108,921	Monday	17	1800	Integrated	59,255,207
41						TOTAL	719,516,283

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

<p>1. Large stations for the purpose of this schedule are steam and hydro stations of 2,500 Hw* 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.)</p> <p>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.</p> <p>3. Specify if total plant capacity is reported in kva instead of kilowatts as called for on line 5.</p>	<p>4. If peak demand for 60 minutes is not available, give that which is available, specifying period.</p> <p>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.</p> <p>6. If gas is used and purchased on a therm basis, the B.t.u. content of the gas should be given and the quantity of fuel consumed converted to M cu. ft.</p> <p>7. Quantities of fuel consumed and the average cost per unit of fuel consumed should be consistent with charges to expense 501 and</p>
---	--

Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)
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	Total cost			
20	Cost per kw of installed capacity			
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	Total production expenses			
31	Expenses per net Kwh (5 places)			
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.
						1
						2
						3
						4
						5
						6
						7
						8
						9
						10
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						12
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						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							
2							
3							
4							
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6							
7							
8							
9							
10							
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36							
37							

Note Reference:

* Indicates reheat boilers thusly, 1050/1000.

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)					
												2
												3
												4
												5
												6
												7
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												36
TOTALS											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							
2							
3							
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* 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. (l)	Maximum hp. Capacity of Unit at Design Head (j)	Year Installed (k)	Voltage (l)	Phase (m)	Fre- quency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Station (p)		
									1	
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									4	
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TOTALS										38
										39

COMBUSTION ENGINE AND OTHER GENERATING STATIONS
(except nuclear 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 percent owner-

Line No.	Name of Station (a)	Location of Station (b)	Prime Movers				
			Diesel or Other Type Engine (c)	Name of Maker (d)	Year Installed (e)	2 or 4 Cycle (f)	Belted or Direct Connected (g)
1							
2							
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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)		
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TOTALS									38
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Annual Report of Town of Reading Municipal Light Department

GENERATING STATION STATISTICS (Small Stations)

1. Small generating stations, for the purpose of this schedule, are steam and hydro stations of less than 2,500 KW* and other stations of less than 500 KW* 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. Designate any plant leased from others, operated under a license from the Federal Power Commission,

5. If peak demand for 60 minutes is not available, give that which is available, specifying period.
6. If any plant is equipped with combustions of steam, hydro, internal combustion engine or gas turbine equipment, each should be reported as a separate plant. However, if the exhaust heat from the gas turbine is utilized in a steam turbine regenerative feed water cycle, report as one plant.

Line No.	Name of Plant (a)	Year Const. (b)	Installed Capacity Name Plate Rating - KW (c)	Peak Demand KW (60 Min.) (d)	Net Generation Excluding Station Use (e)	Cost of Plant (Omit Cents) (f)	Plant Cost Per KW Inst. Capacity (g)	Production Expenses Exclusive of Depreciation and Taxes (Omit Cents)			Kind of Fuel (k)	Fuel Cost Per KWH Net Generation (Cents) 0.00 (l)
								Labor (h)	Fuel (i)	Other (j)		
1												
2												
3												
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TOTALS												

TRANSMISSION LINE STATISTICS

Reposrt 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	Woburn/	Causeway Rd.	115 kV	Single Wood Poles	.46 Miles	No	1.00	795 MCM ALL ALUM
2	Reading	Reading						
3	211-503							
4								
5	Woburn/	Causeway Rd.	115 kV	Single Wood Poles	.46 Miles	No	1.00	795 MCM ALL ALUM
6	Reading	Reading						
7	211-504							
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47	TOTALS							

* 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 sub-station, designating whether transmission or distribution and whether attended or unattended.
 5. Show in columns (f), (g), and (h) special equipment such as rotary converters, reflectors, condensers, etc. and auxiliary equipment for increasing capacity.
 6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by

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

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE			Capacity of Substation in Kva (in Service) (f)	Number Of Transformers in Service (g)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment			
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number Of Units (j)	Total Capacity (k)	
1												
2	Gaw Station - Causeway Rd., Reading	unattended dist.	115 kv	19,900 / 34,500	----	80,000	2	0				
3												
4			115 kv	7,970	----	180,000	3	0				
5				13,800								
6												
7												
8												
9												
10	Wildwood St., Wilmington	unattended dist.	35,000	7,970 / 13,800	----	80,000	2	0				
11												
12	Chestnut St., North Reading	unattended dist.	115 kv	7,970 / 13,800	----	120,000	2	0				
13												
14												
15												
16												
17												
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32												

All transformer ratings are at the top forced air rating.

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	TOTAL
1	Miles - Beginning of Year	286.36	0.00	286.36
2	Added During Year	0.60		0.60
3	Retired During Year	0.18		0.18
4	Miles - End of Year	286.78	0.00	286.78
5				
6				
7				
8	Distribution System Characteristics - A.C. or D.C., or Phase and Operating Voltages for Light and Power.			
9				
10				
11	3 Phase 4 Wire 4160 GRDY / 2400			
12	4 Phase 4 Wire 13800 GRDY / 7970			
13				
14				
15				

ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (Kva)
16	Number at beginning of year.....	29,047	68,680	4,386	279,057.5
17	Additions during year:				
18	Purchased.....		2,884	55	12,897.5
19	Installed.....	107		0	0.0
20	Associated with Utility Plant Acquired.....				
21	Total additions.....	107	2,884	55	12,897.5
22	Reduction During Year:				
23	Retirements.....	72	10,101	74	3,089.5
24	Associated with Utility Plant Sold.....				
25	Total Reductions.....	72	10,101	74	3,089.5
26	Number at End of Year.....	29,082	61,463	4,367	288,865.5
27	In Stock.....		3,346	0	0.0
28	Locked Meters on Customers' Premises.....				
29	Inactive Transformers on System.....				
30	In Customers' Use.....				
31	In Company's Use.....				
32	Number at End of Year.....		64,809	4,367	288,865.5

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 Bank (All sizes and Types) (b)	Underground Cable		Submarine Cable	
			Miles* (c)	Operating voltage (d)	Feet* (e)	Operating Voltage (f)
1						
2						
3						
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34						
TOTALS						

*Indicate number of conductors per cable.

STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town (a)	Total (b)	TYPE							
			Incandescent		Mercury Vapor		Fluorescent		High Press. Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Reading	2,388	0	0	6	0	0	0	2,382	0
2	Lynnfield	807	0	0	454	0	0	0	353	0
3	North Reading	1,311	0	0	83	0	0	0	1,228	0
4	Wilmington	2,633	0	0	790	0	0	0	1,843	0
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52	TOTALS	7,139	0		1,333				5,806	

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

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

..... Mayor.

Vincent F. Cameron, Jr.
Vincent F. Cameron, Jr., General Manager Manager of Electric Light

Philip B. Pacino
Philip B. Pacino, Chairman Selectmen

Gina Snyder
Gina Snyder, Vice Chairman or

Marsie West
Marsie West, Secretary Members

Robert H. Soli
Robert H. Soli of the Municipal

John Stempeck
John Stempeck Light Board

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

JEANNE M. FOTI
Notary Public
Commonwealth of Massachusetts
My Commission Expires
March 28, 2014

3/27/13

Then personally appeared.....
Commonwealth of Massachusetts
My Commission Expires
March 28, 2014

Vincent F. Cameron Jr.

.....
Commonwealth of Massachusetts
My Commission Expires
March 28, 2014

Philip B. Pacino

.....
Commonwealth of Massachusetts
My Commission Expires
March 28, 2014

Gina Snyder

.....
Commonwealth of Massachusetts
My Commission Expires
March 28, 2014

Marsie West

.....
Commonwealth of Massachusetts
My Commission Expires
March 28, 2014

Robert H. Soli

.....
Commonwealth of Massachusetts
My Commission Expires
March 28, 2014

John Stempeck

and severally made oath to the truth of the foregoing statement by them subscribed according to their best knowledge and belief.

Jeanne M. Foti
.....
Notary Public or
Justice of the Peace