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,

2016

Name of Officer to whom correspondence should be addressed regarding this report. **Coleen M. O'Brien**

Official Title: **General Manager**

Office Address: **230 Ash Street**

Reading, MA. 01867

Form AC-19

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FOR GAS PLANTS ONLY:

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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:
   Coleen M. O'Brien
   230 Ash Street
   Reading, MA. 01867

4. Name and address of mayor or selectman
   John R. Halsey, Chair
   Kevin M. Sexton, Vice Chair
   Barry Berman, Secretary
   John Arena
   Daniel Ensminger

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:
   Thomas O'Rourke, Chair
   Philip B. Pacino, Vice Chair
   David Talbot
   John Stempeck
   David Hennessy

8. Total valuation of estates in town (or city) according to last state valuation — $4,309,708,047.00

9. Tax rate for all purposes during the year: — $14.50

10. Amount of manager's salary: — $181,152.00

11. Amount of manager's bond: — $50,000.00

12. Amount of salary paid to members of municipal light board (each) — $0.00

Annual Report of: Town of Reading Municipal Light Department — Year ended December 31, 2016

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	87,392,029.00
3		
4	TOTAL	**87,392,029.00**
5	**Expenses:**	
6	For operation, maintenance and repairs	79,984,278.00
7	For interest on bonds, notes or scrip	
8	For depreciation fund (3% on $132,771,500.00)	3,983,145.00
9	For sinking fund requirements	
10	For note payments	
11	For bond payments	
12	For loss in preceding year	
13	TOTAL	**83,967,423.00**
14		
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

City or Town	Number of Customers' Meters, Dec 31.

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.
Reading	10,349
Lynnfield	3,119
North Reading	6,736
Wilmington	9,488
Co-Op Resale	20
TOTAL	**29,712**

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

CALENDAR YEAR 2016 CONSTRUCTION HIGHLIGHTS

PEAK DEMAND

The Reading Municipal Light Department's (RMLD) system peak demand in Calendar Year 2016 was 163,134 kW occurring on August 12, 2016, at 4:00 pm. This was 5.4% lower than the highest peak demand of 172,493 kW set in August 2006. RMLD purchased 699,807,863 kWh in 2016.

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 1,600 circuit feet of primary cable and two switches were installed on Oak Street to complete the 4W5/4W6 tie.

Pole Line Upgrades:

- Federal Street – Replaced approximately 10 poles, 1,100 feet of primary cable and 1,200 feet of secondary cable.
- Main Street – Transferred primary cable, secondary cable, and street lights to approximately 25 new poles

Commercial/Industrial:

Notable examples of new service additions or upgrades:

- Killam Portable Classroom – Charles Street
- Reading Public Library – Middlesex Avenue
- Artis Senior Living – Main Street

WILMINGTON

Circuit Upgrades:

- Approximately 4,100 feet of primary and 800 feet of secondary cable was installed on Andover Street.

- Approximately 9,000 feet of underground primary cable was installed in the Lucaya Circle and Freeport Drive area.

Pole Line Upgrades:

- Transferred two primary circuits, secondary cable, street lights, and services on 16 poles on Salem Street between Woburn Street and the North Reading town line.

- Replaced 29 poles, transferred five primary circuits, secondary cable, street lights, and services on Lowell Street between West and Woburn Streets.

Commercial/Industrial:

Notable examples of new service additions or upgrades:

- Tecomet – 301 Ballardvale Street
- Federal Express – 45 Industrial Way

NORTH READING

Circuit Upgrades:

- Approximately 600 feet of underground primary cable was installed on Northridge Lane.
- Approximately 1,600 feet of underground primary cable was installed on Judith Drive.
- Approximately 2,300 feet of underground primary cable was installed on Rust Lane and North Hill Drive.
- Approximately 4,000 feet of underground primary cable was installed in the Crestwood Road area.

Commercial/Industrial:

Notable examples of new service additions or upgrades:

- Thomson Country Club – 2 Mid Iron Drive

LYNNFIELD CENTER

Circuit Upgrades:

- Approximately 800 feet of primary cable was installed on Tophet Road.
- Approximately 1,200 feet of underground primary cable was installed on Rourke Lane.
- Installed approximately 4,000 feet of duct bank along Cooks Farm Lane, Cortland Lane and Tophet Road as part of an area upgrade project. Approximately 5,000 feet of underground primary cable and 750 feet of underground secondary cable were installed on Cooks Farm Lane, Cortland Lane and Tophet Road.

Pole Line Upgrades:

- Transferred the primary circuit, secondary cable, street lights, and services on 12 poles on Walnut Street between Summer Street and Thistle Lane.

Commercial/Industrial:

There were no notable new service additions or upgrades.

CUSTOMER CALLS

The Department answered approximately 1,482 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 33 pole damage cases as a result of motor vehicle accidents.

POLE REPLACEMENTS

The Department completed approximately 105 pole installations and/or replacements. Many of these were in connection with the RMLD circuit upgrade projects and the Pole Inspection Program throughout the service area.

DIGSAFE

The RMLD marked out underground facilities locations for 3,907 DIGSAFE calls.

METERS

Between the Meter and Line departments, service upgrades, new construction, and renovations resulted in a total of 151 new overhead and underground residential and commercial/industrial services delineated as follows:

- Reading – 25 residential and 11 commercial/industrial
- Lynnfield – 13 residential and three commercial/industrial
- North Reading – 19 residential and nine commercial/industrial
- Wilmington – 62 residential and nine commercial/industrial

A total of 119 new residential services represent a 34% increase from new residential services in CY2015 (89). A total of 32 commercial/industrial services were installed representing a 27% decrease over the previous year's total of 44.

One hundred and sixteen (116) meters were replaced due to routine residential and commercial meter replacements.

TREE TRIMMING AND PREVENTATIVE MAINTENANCE

In 2016 RMLD continued its preventive maintenance, tree-trimming program. Mayer Tree Service trimmed 1,750 spans throughout the RMLD service territory and removed 2,132 various diameter trees. A significant portion of trimming/removals was on the 35kV sub-transmission lines running from Reading to Wilmington and circuit 5W4 feeding Fordham Road in Wilmington.

COMPARATIVE SYSTEM PERFORMANCE STATISTICS

RMLD utilizes Customer Average Interruption Index (CAIDI), System Average Interruption Duration Index (SAIDI), and System Average Interruption Frequency Index (SAIFI) data to measure system performance.

CAIDI measures the average duration (in minutes) of an interruption experienced by customers. SAIFI measures the average number of instances that a customer will experience an

interruption. CAIDI was 80.94 average minutes of outage time, and SAIFI was 0.66 instances (as of December 31, 2016).

SAIDI measures the average interruption duration (in minutes) for customers served by the utility. SAIDI was 53.35 minutes (as of December 31, 2016).

RMLD continues to provide reliable service through the development and implementation of a number of proactive maintenance programs.

RENEWABLE ENERGY

RMLD is working with customers who wish to install renewable energy products. At the end of CY16, there were a total of 76 residential (538 kW) and thirteen commercial (1,600 kW) sites generating solar energy within RMLD's service territory. In 2016, photovoltaic systems were added at 35 residential locations (four in Lynnfield, eleven in Reading, five in North Reading, and 15 in Wilmington).

Additionally, a two-megawatt solar array is located at One Burlington Avenue in Wilmington. RMLD is the sole purchaser of the output from this solar project. The Solar Renewable Energy Certificates (SRECS) are retained by the developer.

FACILITIES & FLEET

The Facilities group selected MacRitchie Engineering as the firm to provide engineering, design and project management support for the upgrade of the HVAC system in the main operations/office building located at 230 Ash Street and the garage located at 218 Ash Street.

HVAC Improvements - Phase I finalized to include:

- Air balancing commenced in January 2016.
- In February, the Facilities staff, through the project, received tablets to further automate the building controls.

HVAC Improvements - Phase II:

- Engineering, design, and construction documents were completed for the removal of two existing gas-fired chillers, two existing cooling towers, existing air handling units (AHU) 1 and 2, chemical treatment equipment, and all other related equipment, ductwork, and piping. Installation of new AHU 1 and 2 and associated roof-mounted condensing units. and all other associated and supporting work as well as

the expansion of the building control system for the new AHU was completed. Additionally, we are now delivering heat to perimeter spaces through hot water baseboard by adding additional fin tube.

- In an effort to reduce the cost of the project, RMLD combined Phase II HVAC improvements and the installation of one new RTU for the garage located at 218 Ash Street and all other associated supporting work.
- Construction/project management.

The new HVAC equipment will operate at significantly higher efficiency resulting in lower energy costs. The system will also be controlled with a new building control system to further reduce energy usage.

Office and Operations:

Office upgrades include relocation of GIS, Purchasing/Materials Management, Facilities Manager/Assistant, Technical Services Manager, Credit and Collections Manager, Accounting, MIS, and Customer Services. Other office upgrades include office/room and corridor painting as well as carpet replacement.

Annual fire extinguisher inspection and maintenance was completed in August with over 150 fire extinguishers inspected and maintained. This program ensures that critical safety equipment located in all RMLD vehicles and buildings is available if needed.

Security:

Significant upgrades continue to the security systems at all RMLD properties. New technology has improved security equipment in access control and surveillance.

Fleet:

The Facilities group completed dielectric testing of 16 Line department vehicles and preventive maintenance of 17 Line department vehicles to ensure proper operation of the mechanical and lift equipment for daily operation. The maintenance program ensures vehicles are always safe and operational, especially during significant weather events. Additionally, preventative maintenance was performed on 22 light-duty trucks and cars during the year.

RMLD contracted with Fleet Counselor Services, Inc., to perform an overall evaluation of the current fleet operations. The evaluation compares findings to industry best practices and presents a series of recommendations.

In March 2016, the Line department received one new 45' digger derrick with the trade-in of one 45' digger derrick (vehicle #14).

In April 2016, the Technical Services department received one new walk-in van with the trade-in of one 40' bucket (vehicle #48).

In July 2016, RMLD received one new TMX25 electric forklift including battery charger with the trade-in of one 1995 TM25 electric forklift.

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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	
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

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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	
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	183,427.00					
Aug-1992	Aug-1992	680,000.00					
Apr-1994	Apr-1994	2,000,000.00					
Aug-1995	Aug-1995	1,090,000.00					
	TOTAL	4,324,827.00					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

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	**1. INTANGIBLE PLANT**						
2							
3							
4							
5	**2. PRODUCTION PLANT**						
6	A. Steam Production						
7	310 Land and Land Rights.....						
8	311 Structures and Improvements.....						
9	312 Boiler Plant Equipment.....						
10	313 Engines and Engine Driven Generators.....						
11	314 Turbogenerator Units.....						
12	315 Accessory Electric Equipment.....						
13	316 Miscellaneous Power Plant						
14	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...**						

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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 Inprovements.....						
13	342 Fuel Holders, Producers and Accessories.....						
14	343 Prime Movers.....						
15	344 Generators.....	0.00	43,175.00				43,175.00
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	21,756.00				127,693.00
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**	**64,931.00**	**0.00**	**0.00**	**0.00**	**7,808,354.00**

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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**	**64,931.00**	**0.00**	**0.00**	**0.00**	**7,808,354.00**
1	**4. DISTRIBUTION PLANT**						
2	360 Land and Land Rights	843,454.00					843,454.00
3	361 Structures and Improvements	5,383,231.00	1,283,145.00				6,666,376.00
4	362 Station Equipment	10,421,432.00	187,823.00				10,609,255.00
5	363 Storage Battery Equipment	65,394.00					65,394.00
6	364 Poles, Towers and Fixtures	26,881,607.00	809,803.00				27,691,410.00
7	365 Overhead Conductors and Devices	18,643,359.00	710,847.00				19,354,206.00
8	366 Underground Conduits	8,278,253.00	272,941.00				8,551,194.00
9	367 Underground Conductors & Devices	9,125,801.00	401,873.00				9,527,674.00
10	368 Line Transformers	10,189,143.00	493,686.00				10,682,829.00
11	369 Services	5,767,328.00	43,523.00				5,810,851.00
12	370 Meters	4,791,114.00	241,288.00				5,032,402.00
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	2,766,810.00	755,859.00				3,522,669.00
16	Total Distribution Plant	**103,156,926.00**	**5,200,788.00**	**0.00**			**108,357,714.00**
17	**5. GENERAL PLANT**						
18	389 Land and Land Rights	397,372.00					397,372.00
19	390 Structures and Improvements	8,020,118.00	783,793.00				8,803,911.00
20	391 Office Furniture and Equipment	7,502,561.00	214,424.00				7,716,985.00
21	392 Transportation Equipment	4,263,193.00	401,737.00				4,664,930.00
22	393 Stores Equipment	105,376.00	30,477.00				135,853.00
23	394 Tools, Shop and Garage Equipment	512,913.00					512,913.00
24	395 Laboratory Equipment	492,759.00					492,759.00
25	396 Power Operated Equipment	0.00					0.00
26	397 Communication Equipment	2,780,440.00	52,208.00				2,832,648.00
27	398 Miscellaneous Equipment	183,150.00					183,150.00
28	399 Other Tangible Property	0.00					0.00
29	Total General Plant	**24,257,882.00**	**1,482,639.00**	**0.00**			**25,740,521.00**
30	Total Electric Plant in Service	**135,158,231.00**	**6,748,358.00**	**0.00**	**0.00**	**0.00**	**141,906,589.00**
31				**TOTAL COST OF PLANT.....**			
32							
33				Less Cost of Land, Land Rights, and Rights of Way			**1,265,842.00**
34				Total Cost upon which depreciation is based			**140,640,747.00**

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	70,337,310.00	72,977,009.00	2,639,699.00
3	101 Utility Plant- Gas			
4	123 Investment in Associated Companies	26,994.00	26,994.00	0.00
5	**Total Utility Plant**	**70,364,304.00**	**73,004,003.00**	**2,639,699.00**
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds			
13	126 Depreciation Fund (P. 14)	6,426,279.00	5,631,361.00	(794,918.00)
14	128 Other Special Funds	1,284,061.00	1,345,663.00	61,602.00
15	**Total Funds**	**7,710,340.00**	**6,977,024.00**	**(733,316.00)**
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P. 14)	25,468,257.00	31,071,673.00	5,603,416.00
18	132 Special Deposits	903,279.00	1,024,766.00	121,487.00
19	132 Working Funds	3,000.00	3,000.00	0.00
20	141 Notes and Receivables			
21	142 Customer Accounts Receivable	7,459,586.00	9,092,126.00	1,632,540.00
22	143 Other Accounts Receivable	295,773.00	721,000.00	425,227.00
23	146 Receivables from Municipality			
24	151 Materials and Supplies (P. 14)	1,674,959.00	1,580,915.00	(94,044.00)
25				
26	165 Prepayments	4,298,355.00	7,453,055.00	3,154,700.00
27	174 Miscellaneous Current Assets			
28	**Total Current and Accrued Assets**	**40,103,209.00**	**50,946,535.00**	**10,843,326.00**
29	DEFERRED DEBITS			
30	181 Unamortized Debt Discount	0.00	0.00	0.00
31	182 Extraordinary Property Debits			
32	185 Other Deferred Debits	(1,359,340.00)	(1,450,276.00)	(90,936.00)
33	**Total Deferred Debits**	**(1,359,340.00)**	**(1,450,276.00)**	**(90,936.00)**
34				
35	**Total Assets and Other Debits**	**116,818,513.00**	**129,477,286.00**	**12,658,773.00**

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).....	77,680,387.00	82,780,611.00	5,100,224.00
8	**Total Surplus.....**	**93,202,691.00**	**98,302,915.00**	**5,100,224.00**
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.....	7,421,224.00	7,413,052.00	(8,172.00)
15	234 Payables to Municipality.....			
16	235 Customer Deposits.....	903,279.00	1,024,766.00	121,487.00
17	236 Taxes Accrued.....			
18	237 Interest Accrued.....	3,057,725.00	9,950,107.00	6,892,382.00
19	242 Miscellaneous Current and Accrued Liabilities	3,070,487.00	3,257,809.00	187,322.00
20	**Total Current and Accrued Liabilities...**	**14,452,715.00**	**21,645,734.00**	**7,193,019.00**
21	**DEFERRED CREDITS**			
22	251 Unamortized Premium on Debt.....			
23	252 Customer Advance for Construction.....	938,349.00	1,028,450.00	90,101.00
24	253 Other Deferred Credits.....			
25	**Total Deferred Credits**	**938,349.00**	**1,028,450.00**	**90,101.00**
26	**RESERVES**			
27	260 Reserves for Uncollectable Accounts.....	253,736.00	246,904.00	(6,832.00)
28	261 Property Insurance Reserve.....			
29	262 Injuries and Damages Reserves.....			
30	263 Pensions and Benefits.....			
31	265 Miscellaneous Operating Reserves.....			
32	**Total Reserves.....**	**253,736.00**	**246,904.00**	**(6,832.00)**
33	**CONTRIBUTIONS IN AID OF CONSTRUCTION**			
34	271 Contributions in Aid of Construction.....	7,971,022.00	8,253,283.00	282,261.00
35	**Total Liabilities and Other Credits**	**116,818,513.00**	**129,477,286.00**	**12,658,773.00**

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)	**91,972,575.00**	**5,805,178.00**
3	**Operating Expenses:**		
4	401 Operation Expense (P. 42)	76,289,104.00	2,816,572.00
5	402 Maintenance Expense (P. 42)	3,715,749.00	421,154.00
6	403 Depreciation Expense	4,023,050.00	119,921.00
7	407 Amortization of Property Losses		
9	408 Taxes (P. 49)	1,406,746.00	12,799.00
10	**Total Operating Expenses**	**85,434,649.00**	**3,370,446.00**
11	Operating Income		
12	414 Other Utility Operating Income (P. 50)		
13			
14	**Total Operating Income**	**6,537,926.00**	**2,434,732.00**
15	**OTHER INCOME**		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	397,814.00	(88,945.00)
17	419 Interest Income	213,872.00	92,949.00
18	421 Miscellaneous Income		
19	**Total Other Income**	**611,686.00**	**4,004.00**
20	**Total Income**	**7,149,612.00**	**2,438,736.00**
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**	**7,149,612.00**	**2,438,736.00**
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	3,796.00	4,289.00
31	432 Interest Charged to Construction-Credit		
32	**Total Interest Charges**	**3,796.00**	**4,289.00**
33	**Net Income**	**7,145,816.00**	**2,434,447.00**

EARNED SURPLUS

Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of period)		**77,680,387.00**
35	GASB 68 PRIOR PERIOD ADJUSTMENT		
36			
37	433 Balance Transferred from Income		7,145,816.00
38	434 Miscellaneous Credits to Surplus (P. 21)		400,074.00
39	435 Miscellaneous Debits to Surplus (P. 21)	96,874.00	
40	436 Appropriations of Surplus (P. 21)	2,377,557.00	
41	437 Surplus Applied to Depreciation		28,765.00
42	208 Unappropriated Earned Surplus (at end of period)	82,780,611.00	
43			
44	**TOTALS**	**85,255,042.00**	**85,255,042.00**

CASH BALANCES AT END OF YEAR (Account 131)

Line No.	Items (a)	Amount (b)
1	Operation Fund	31,071,673.00
2	Interest Fund	
3	Bond Fund	
4	Construction Fund	
5		
6		
7		
8		
9		
10		
11		
12	TOTAL	31,071,673.00

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

Line No.	Account (a)	Amount End of Year: Electric (b)	Amount End of Year: 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)	1,580,915.00	
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**	1,580,915.00	

Depreciation Fund Account (Account 126)

Line No.	(a)	Amount (b)
24	**DEBITS**	
25	Balance of Account at Beginning of Year	6,426,279.00
26	Income During Year from Balance on Deposit	30,388.00
27	Amount Transferred from Income	4,023,050.00
28	TOTAL	10,479,717.00
29		
30	**CREDITS**	
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.)	4,848,356.00
32	Amounts Expended for Renewals	
33	Adjustment	
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year	
40	TOTAL	5,631,361.00

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 preceding year. Such items should be included in column (c).
3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative effect of such amounts.
4. Reclassifications or transfers within the utility plant accounts should be shown in in column (f).

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	**1. INTANGIBLE PLANT**						
2							
3							
4							
5	**2. PRODUCTION PLANT**						
6	A. Steam Production						
7	310 Land and Land Rights						
8	311 Structures and Improvements						
9	312 Boiler Plant Equipment						
10	313 Engines and Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	316 Miscellaneous Power Plant Equipment						
14							
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**						

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.....	-	43,175.00				43,175.00
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	**Total Other Production Plant**						
19	**Total Production Plant**		43,175.00				43,175.00
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.....	694,666.00		28,379.00			666,287.00
24	353 Station Equipment.....	4,288,279.00		160,014.00			4,128,265.00
25	354 Towers and Fixtures.....	0.00					0.00
26	355 Poles and Fixtures.....	0.00	64,931.00				64,931.00
27	356 Overhead Conductors and Device..	18,118.00		1,122.00			16,996.00
28	357 Underground Conduits.....	5,881.00		1,296.00			4,585.00
29	358 Underground Conductors and Dev..	590.00		138.00			452.00
30	359 Roads and Trails.....	0.00					0.00
31	**Total Transmission Plant**	**5,032,549.00**	**64,931.00**	**190,949.00**	**0.00**	**0.00**	**4,906,531.00**

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	3,043,607.00	1,283,145.00	143,885.00			4,182,867.00
4	362 Station Equipment	4,535,587.00	187,823.00	193,839.00			4,529,571.00
5	363 Storage Battery Equipment	41,194.00	0.00	1,900.00			39,294.00
6	364 Poles and Fixtures	17,495,025.00	809,803.00	873,871.00		(48.00)	17,430,909.00
7	365 Overhead Conductors and Devices	14,843,890.00	710,847.00	588,772.00			14,965,965.00
8	366 Underground Conduits	3,435,918.00	272,941.00	273,016.00			3,435,843.00
9	367 Underground Conductors and Devices	4,549,609.00	401,873.00	294,022.00			4,657,460.00
10	368 Line Transformers	4,955,868.00	493,686.00	332,520.00		38,260.00	5,078,774.00
11	369 Services	1,873,600.00	43,523.00	185,329.00			1,731,794.00
12	370 Meters	3,298,802.00	241,288.00	158,082.00		47,301.00	3,334,707.00
13	371 Installation on Cust's Premises						
14	372 Leased Prop. on Cust's Premises.						
15	373 Street Light and Signal Systems	945,535.00	755,859.00	84,837.00			1,616,557.00
16	**Total Distribution Plant**	**59,862,089.00**	**5,200,788.00**	**3,130,073.00**	**0.00**	**85,513.00**	**61,847,195.00**
17	**5. GENERAL PLANT**						
18	389 Land and Land Rights	397,372.00	0.00				397,372.00
19	390 Structures and Improvements	2,530,765.00	783,793.00	241,319.00			3,073,239.00
20	391 Office Furniture and Equipment	541,057.00	214,424.00	134,738.00			620,743.00
21	392 Transportation Equipment	629,624.00	401,737.00	290,811.00			740,550.00
22	393 Stores Equipment	9,402.00	30,477.00	3,144.00			36,735.00
23	394 Tools, Shop and Garage Equipment.	7,158.00	0.00	1,372.00			5,786.00
24	395 Laboratory Equipment	146,581.00	0.00	13,607.00			132,974.00
25	396 Power Operated Equipment						
26	397 Communication Equipment	1,125,808.00	52,208.00	10,351.00			1,167,665.00
27	398 Miscellaneous Equipment	54,905.00	0.00	6,686.00			48,219.00
28	399 Other Tangible Property						
29	**Total General Plant**	**5,442,672.00**	**1,482,639.00**	**702,028.00**	**0.00**	**0.00**	**6,223,283.00**
30	**Total Electric Plant in Service**	**69,505,985.00**	**6,748,358.00**	**4,023,050.00**	**0.00**	**85,513.00**	**72,977,009.00**
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**	**69,505,985.00**	**6,748,358.00**	**4,023,050.00**	**0.00**	**85,513.00**	**72,977,009.00**

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			
			Quantity (c)	Cost (d)	Quantity (e)	Cost (f)
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					

Line No.	Item (g)	Kinds of Fuel and Oil -- Continued			
		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 (incl MMWEC Flush)	400,074.00
17		
18		
19		
20		
21		
22		
23	TOTAL	400,074.00

MISCELLANEOUS DEBITS TO SURPLUS (Account 435)

Line No.	Item (a)	Amount (b)
24		
25		
26	Loss on Disposal of Electric Plant Utility	96,874.00
27		
28	GASB 68 PRIOR PERIOD ADJUSTMENT	
29		
30		
31		
32	TOTAL	96,874.00

APPROPRIATIONS OF SURPLUS (Account 436)

Line No.	Item (a)	Amount (b)
33		
34	Transfer to Town of Reading	2,377,557.00
35		
36		
37		
38		
39		
40	TOTAL	2,377,557.00

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.	Acct 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)	23,532,503	1,913,905.00	0.0813
10					
11					
12					
13		Municipal Street Lighting	2,435,914	275,245.00	0.1130
14					
15					
16					
17					
19		TOTALS	25,968,417	2,189,150.00	0.0843

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		149,331,143	11,724,526.00	0.0785
21	SHELL		117,726,010	7,566,148.52	0.0643
22	Nextera		0	4,353,000.00	0.0000
23	HQ Phase 2 Companies		0	86,548.18	0.0000
24	ISO-NE/REMVEC		64,726,231	19,272,911.64	0.2978
25	BP Energy		111,833,630	5,244,997.01	0.0469
27	COOP Resale		158,138	21,660.44	0.1370
28	Braintree Watson		5,149,696	1,572,762.36	0.3054
29	Swift River / Other Renewables		55,841,076	4,931,573.86	0.3054
30	Exelon		198,273,430	9,405,671.49	0.0883
31	Deferred Fuel		0	105,949.04	0.0000
32					
32					
		TOTALS	703,039,354	64,285,748.54	0.0914

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	2,850,880	397,440.00	0.1394
33	Town of Wakefield	Customer Premises	960,690	74,470.00	0.0775
34	Town of Middleton	Customer Premises	9,486	1,362.00	0.1436
35					
36					
37					
38					
39					
40					
41		TOTALS	3,821,056	473,272.00	0.1239

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.

		Operating Revenues		Kilowatt-hours Sold		Average Number of Customers per Month	
Line No.	Account (a)	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	SALES OF ELECTRICITY						
2	440 Residential Sales	24,171,281.00	717,738.00	249,388,582	(7,551,187)	26,289	(23)
3	442 Commercial and Industrial Sales:	29,381,760.00	218,309.00	395,275,915	(7,481,301)	2,941	30
4	Small (or Commercial) see instr. 5						
5	Large (or Industrial) see instr. 5						
6	444 Municipal Sales (P.22)	2,189,150.00	120,070.00	25,968,417	(1,815,046)	280	(4)
7	445 Other Sales to Public Authorities						
8	446 Sales to Railroads and Railways						
9	448 Interdepartmental Sales						
10	449 Miscellaneous Electric Sales	132,541.00	15,438.00	927,852	(27,237)	271	7
	449.1 Provision for Rate Refunds/PPCT	34,116,531.00	4,746,474.00				
11	**Total Sales to Ultimate Consumers**	**89,991,263.00**	**5,818,029.00**	**671,560,766**	**(16,874,771)**	**29,782**	**11**
12	447 Sales for Resale	473,272.00	(8,186.00)	3,821,056	(352,377)	20	0
13	**Total Sales of Electricity***	**90,464,535.00**	**5,809,843.00**	**675,381,822**	**(17,227,148)**	**29,802**	**11**
14	OTHER OPERATING REVENUES						
15	450 Forfeited Discounts	842,871.00	1,295.00				
16	451 Miscellaneous Service Revenues (ECC)	665,169.00	(8,675.00)				
17	453 Sales of Water and Water Power			*Includes revenues from application of fuel clauses			**31,852,860.00**
18	454 Rent from Electric Property						
19	455 Interdepartmental Rents			Total KWH to which applied			**675,381,822**
20	456 Other Electric Revenues		(91,155.00)				
21							
22							
23							
24							
25	Total Other Operating Revenues	**1,508,040.00**	**(98,535.00)**				
26	Total Electric Operating Revenues.	**91,972,575.00**	**5,711,308.00**				

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-16 (e)	Dec-16 (f)
1	Residential - A		249,388,582	24,171,281.00	0.0969	26,309	26,384
2	Industrial - C		395,275,915	29,381,760.00	0.0743	2,941	2,952
3	Municipal - C		23,532,503	1,913,905.00	0.0813	261	262
4	Street Lighting		2,435,914	275,245.00	0.1130	18	18
5	Private Street Lighting		927,852	132,541.00	0.1428	272	272
6							
7	Provision for Purchased Power Adjustments			34,116,531.00			
8							
9							
10							
11							
12							
13							
14							
15							
16							
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18							
19							
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41							
42							
43							
44							
45							
46							
47							
48	TOTAL SALES TO ULTIMATE						
49	CONSUMERS (Page 37 Line 11)		671,560,766	89,991,263.00	0.1340	29,801	29,888

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	31,852,860.00	(816,205.00)
14	548 Operation Expenses		
15	549 Miscellaneous Other Power Generation Expenses		
16	550 Rents		
17	**Total Operation**	**31,852,860.00**	**(816,205.00)**
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	19,785,704.00	1,675,316.00
27	556 System Control and Load Dispatching		
28	557 Other Expenses	(4,807.00)	(216,955.00)
29	**Total Other Power Supply Expenses**	**19,780,897.00**	**1,458,361.00**
30	**Total Power Production Expenses**	**51,633,757.00**	**642,156.00**
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	12,651,991.00	545,356.00
39	566 Miscellaneous Transmission Expenses		
40	567 Rents		
41	**Total Operation**	**12,651,991.00**	**545,356.00**
42	**Maintenance:**		
43	568 Maintenance Supervision and Engineering	10,845.00	8,120.00
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**	**10,845.00**	**8,120.00**
50	**Total Transmission Expenses**	**12,662,836.00**	**553,476.00**

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	516,469.00	(26,474.00)
4	581 Load Dispatching	834,942.00	(176,658.00)
5	582 Station Expenses	455,727.00	12,406.00
6	583 Overhead Line Expenses		
7	584 Underground Line Expenses		
8	585 Street Lighting and Signal System Expenses	132,024.00	29,174.00
9	586 Meter Expenses	218,902.00	(8,189.00)
10	587 Customer Installations Expenses		
11	588 Miscellaneous Distribution Expenses	460,235.00	(4,611.00)
12	589 Rents		
13	**Total Operation**	**2,618,299.00**	**(174,352.00)**
14	Maintenance:		
15	590 Maintenance Supervision and Engineering	540,310.00	157,031.00
16	591 Maintenance of Structures		
17	592 Maintenance of Station Equipment		
18	593 Maintenance of Overhead Lines	1,927,247.00	57,022.00
19	594 Maintenance of Underground Lines	226,657.00	60,861.00
20	595 Maintenance of Line Transformers	33,380.00	(64,968.00)
21	596 Maintenance of Street Lighting and Signal Systems	96,409.00	
22	597 Maintenance of Meters	0.00	461.00
23	598 Maintenance of Miscellaneous Distribution Plant		
24	**Total Maintenance**	**2,824,003.00**	**210,407.00**
25	**Total Distribution Expenses**	**5,442,302.00**	**36,055.00**
26	CUSTOMER ACCOUNTS EXPENSES		
27	Operation:		
28	901 Supervision		
29	902 Meter Reading Expenses	19,319.00	(3,129.00)
30	903 Customer Records and Collection Expenses	1,672,333.00	(40,042.00)
31	904 Uncollectable Accounts	79,770.00	30,596.00
32	905 Miscellaneous Customer Accounts Expenses		
33	**Total Customer Accounts Expenses**	**1,771,422.00**	**(12,575.00)**
34	SALES EXPENSES		
35	Operation:		
36	911 Supervision		
37	912 Demonstrating and Selling Expenses		
38	913 Advertising Expenses		
39	916 Miscellaneous Sales Expense	1,274,577.00	279,499.00
40	**Total Sales Expenses**	**1,274,577.00**	**279,499.00**
41	ADMINISTRATIVE AND GENERAL EXPENSES		
42	Operation:		
43	920 Administrative and General Expenses	942,290.00	103,094.00
44	921 Office Supplies and Expenses	368,837.00	10,824.00
45	922 Administrative Expenses Transferred - Cr		
46	923 Outside Services Employed	661,490.00	104,058.00
47	924 Property Insurance	335,044.00	(39,693.00)
48	925 Injuries and Damages	65,288.00	18,891.00
49	926 Employees Pensions and Benefits	3,642,470.00	1,350,978.00
50	928 Regulatory Commission Expenses		
51	929 Duplicate Charges - Cr		
52	930 Miscellaneous General Expenses	133,103.00	(10,087.00)
53	931 Rents	190,536.00	(1,577.00)
54	**Total Operation**	**6,339,058.00**	**1,536,488.00**

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		880,901.00	106,218.00
4	**Total Maintenance**		**880,901.00**	**106,218.00**
5	**Total Administrative and General Expenses**		**7,219,959.00**	**1,642,706.00**

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	31,852,860.00		31,852,860.00
12	Other Power Supply Expenses	19,780,897.00		19,780,897.00
13	**Total Power Production Expenses**	**51,633,757.00**		**51,633,757.00**
14	Transmission Expenses	12,651,991.00	10,845.00	12,662,836.00
15	Distribution Expenses	2,618,299.00	2,824,003.00	5,442,302.00
16	Customer Accounts Expenses	1,771,422.00		1,771,422.00
17	Sales Expenses	1,274,577.00		1,274,577.00
18	Administrative and General Expenses	6,339,058.00	880,901.00	7,219,959.00
19				
20	**Total Electric Operation and Maintenance Expenses**	**76,289,104.00**	**3,715,749.00**	**80,004,853.00**

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)..... 91.36%

22 Total salaries and wages of electric department for year, Including amounts charged to operating expenses, construction and other accounts..... 7,822,705.00

23 Total number of employees of electric department at end of year including adminlstrative, operating, maintenance and other employees (including part time employees)..... 71

TAXES CHARGED DURING YEAR

1. This schedule is intended to give the account distribution of total taxes charged to operations and other final accounts 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)	Total Taxes Charged During Year (omit cents) (b)	Distribution of Taxes Charged (omit cents) (Show utility department where applicable and account charged) Electric (Acct. 408, 409) (c)	Gas (Acct. 408,409) (d)	(e)	(f)	(g)	(h)	(I)	(j)
1										
2										
3										
4	Voluntary Payment to Towns	1,406,746.00	1,406,746.00							
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	1,406,746.00	1,406,746.00							

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					
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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	437,595.00			437,595.00
4	Contract Work - Street Lights				
5	Commissions				
6	Other (List according to major classes)				
7					
8					
9					
10	Total Revenues	437,595.00			437,595.00
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to major				
15	classes of cost)	39,781.00			39,781.00
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	39,781.00			39,781.00
51	Net Profit (or Loss)	397,814.00			397,814.00

SALES FOR RESALE (Acccount 447)

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

2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Municipalities, (4) R.E.A. Cooperatives, and (5) other public authorities. For each sale designate statistical classification in column (b), thus: firm power, FP; dump or surplus power, DP;other G,

and place an "x" in column (c) if sale involves export across a state line.

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

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

Line No.	Sales to	Statistical Classification	Export Across State Lines	Point of Delivery	Substation	Kw or Kva of Demand (Specify which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21				None				
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

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 (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Revenue (Omit Cents)				Revenue per Kwh (cents) [0.0000] (p)	Line No.
			Demand Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
			None					1
	TOTALS							42

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.

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

3. Report separately firm, dump, amd othe 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)	(d)	(e)	(f)	(g)	(h)
1	PEAKING PROJECT	O		Town Line		24,981	KW	
2	INTERMEDIATE PROJECT	O		Town Line		42,925	KW	
3	NUC. MIX ONE - SEABROOK	O	X	Town Line		292	KW	
4	NUC. MIX ONE - MILLSTONE 3	O	X	Town Line		2,893	KW	
5	NUCLEAR PROJECT THREE	O	X	Town Line		2,057	KW	
6	NUCLEAR PROJECT FOUR	O	X	Town Line		6,795	KW	
7	NUCLEAR PROJECT FIVE	O	X	Town Line		823	KW	
8	NYPA	O	X	Town Line		4,019	KW	
9	BRAINTREE WATSON UNIT	FP	X	Town Line		10,520	KW	
10	SHELL ENERGY	FP	X	Town Line				
11	NEXTERA	O	X	Town Line		60,000	KW	
12	BP ENERGY	O	X	Town Line				
13	EXELON	O	X	Town Line				
14	HQ PH.1 TRANS. SUPP. VEC	O	X	Town Line				
15	HQ PH.1 TRANS. SUPP. NEE	O	X	Town Line				
16	HQ PH. 2	O	X	Town Line				
17	REMVEC	FP	X	Town Line				
18	ISO -NE/ LNS	FP		Town Line		65,573	KW	
19	ISO -NE OTHER	O		Town Line				
20	PEPPERELL HYDRO	O		Town Line		507	KW	
21	WORONOCO HYDRO	O		Town Line		1,181	KW	
22	INDIAN RIVER HYDRO	FP		Town Line		314	KW	
23	TURNER FALLS HYDRO	FP		Town Line				
24	COLLINS HYDRO	FP	X	Town Line				
25	SUMMIT HYDRO			Town Line				
26	PIONEER HYDRO			Town Line				
27	HOSIERY MILLS HYDRO			Town Line				
28	SADDLEBACK WIND			Town Line				
29	JERICHO WIND		X	Town Line				
30	ONE BURLINGTON SOLAR			Town Line				
31	COOP RESALE			Town Line				
32	DEFERRED FUEL							
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
	TOTALS					222,880		

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 should be furnished whether or not used in the determination of demand charges. Show in column (i) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).
6. The number of kilowatt hours purchased should be the quantities shown by the power bills.
7. Explain any amount entered in column (n) such as fuel or other adjustments.

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Cost of Energy (Omit Cents) Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)	Cents per KWH (cents) [0.0000] (p)	Line No.
60 Minute	115,000	487,213	562,307	131,101	141,751	835,159	1.7142	1
60 Minute	115,000	30,937,547	3,624,588	790,425	28,457	4,443,470	0.1436	2
60 Minute	115,000	2,272,135	75,362	15,574	162	91,098	0.0401	3
60 Minute	115,000	25,135,478	740,491	144,519	18,338	903,347	0.0359	4
60 Minute	115,000	17,914,516	1,010,457	103,096	13,070	1,126,623	0.0629	5
60 Minute	115,000	51,594,926	2,920,628	354,124	3,683	3,278,435	0.0635	6
60 Minute	115,000	6,363,987	395,175	43,617	454	439,246	0.0690	7
60 Minute	115,000	27,543,807	148,606	138,569	319,972	607,148	0.0220	8
60 Minute	115,000	4,034,023	1,156,327	416,436	0	1,572,762	0.3899	9
60 Minute	115,000	117,834,830	0	7,566,149	0	7,566,149	0.0642	10
60 Minute	115,000	102,416,000	4,353,000	0	0	4,353,000	0.0425	11
60 Minute	115,000	88,327,100	0	5,244,997	0	5,244,997	0.0594	12
60 Minute	115,000	106,993,580	0	9,405,671	0	9,405,671	0.0879	13
60 Minute	115,000	0	5,781	0	0	5,781		14
60 Minute	115,000	0	7,626	0	0	7,626		15
60 Minute	115,000	0	73,141	0	0	73,141		16
60 Minute	115,000	0	0	10,225	0	10,225		17
60 Minute	115,000	76,047,271	4,748,418	3,197,633	12,259,479	20,205,530	0.2657	18
60 Minute	115,000	0	(15,984)	(820,910)	0	(836,894)		19
60 Minute	115,000	4,691,110	(6,981)	432,187	0	425,206	0.0906	20
60 Minute	115,000	3,428,987	(13,282)	666,731	0	653,449	0.1906	21
60 Minute	115,000	3,012,749	(4,763)	169,384	0	164,621	0.0546	22
60 Minute	115,000	1,377,636	0	132,675	0	132,675	0.0963	23
60 Minute	115,000	4,085,149	0	248,774	0	248,774	0.0609	24
60 Minute	115,000	7,328,981	0	490,805	0	490,805	0.0670	25
60 Minute	115,000	3,205,740	0	258,328	0	258,328	0.0806	26
60 Minute	115,000	1,825,955	0	155,811	0	155,811	0.0853	27
60 Minute	115,000	7,370,006	0	1,511,658	0	1,511,658	0.2051	28
60 Minute	115,000	8,385,210	0	798,813	(133,375)	665,438	0.0794	29
60 Minute	115,000	255,364	0	224,808	0	224,808	0.8803	30
60 Minute	115,000	170,054	0	21,660	0	21,660	0.1274	31
60 Minute	115,000	0	0	0	0	0		32
								33
								34
								35
								36
								37
								38
								39
								40
								41
	TOTALS	703,039,354	19,780,897	31,852,860	12,651,991	64,285,749	0.0914	42

INTERCHANGE POWER (Included in Account 555)

1. Report below the Kilowatt-hours received and delivered during the year and the net charge or credit under interchange power agreements.
2. Provide subheadings and classify interchanges as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A., Cooperatives, and (7) Other Public Authorities. For each interchange across a state line place an "X" in column (b).
3. Particulars of settlements for interchange power shall be furnished in Part B, Details of Settlement for Interchange Power. If settlement for any transaction also includes credit or debit amounts other than for increment generation expenses, show such other component amounts separately, in addition to debit or credit for increment generation expenses, and give a brief explanation of the factors and principles under which such other component amounts were determined. If such settlement represents the net of debits and credits under an interconnection, power pooling, coordination, or other such arrangement, submit a copy of the annual summary of transactions and billings among the parties to the agreement. If the amount of settlement reported in this schedule for any transaction does not represent all of the charges and credits covered by the agreement, furnish in a footnote a description of the other debits and credits and state the amounts and accounts in which such other amounts are included for the year.

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

Line No.	Name of Company	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	64,726,231		64,726,231	4,543,579
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12				TOTALS	64,726,231	0	64,726,231	4,543,579

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)						Amount (k)
13	NEPEX	Kwh Received	Adjusted Net Interchange					64,726,231
14								
15								
16								
17								
18		Kwh Delivered	Adjusted Net Interchange					
19								
20								
21							TOTALS	64,726,231

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)
1	SOURCES OF ENERGY			
2	Generation (excluding station use):			
3	Steam			
4	Nuclear			
5	Hydro			
6	Other			
7	Total generation			
8	Purchases			638,313,123
9		{ In (gross)	64,726,231	
10	Interchanges	{ Out (gross)	0	
11		{ Net (Kwh)		
12		{ Received		
13	Transmission for/by others (Wheeling	{ Delivered		
14		{ Net (kwh)		
15	TOTAL			703,039,354
16	DISPOSITION OF ENERGY			
17	Sales to ultimate consumers (including interdepartmental sales)			671,560,766
18	Sales for resale			3,821,056
19	Energy furnished without charge			
20	Energy used by the company (excluding station use)			
21	Electric department only			632,180
22	Energy losses:			
23	Transmission and conversion losses		27,025,352	
24	Distribution losses			
25	Unaccounted for losses		0	
26	Total energy losses			27,025,352
27	Energy losses as percent of total on line 15	3.84%		
28	Losses within RMLD system	0.00%	TOTAL	703,039,354

MONTHLY PEAKS AND OUTPUT

1. Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-hours) for the combined sources of electric energy of respondent.
2. Monthly peak col. (b) should be respondent's maximum Kw load as measured by the sum of its coincidental net generation and 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.
3. State type of monthly peak reading (instantaneous 15, 30, or 60 minute integrated.)
4. Monthly output should be the sum of respondent's net generation and purchases plus or minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with line 15 above.
5. If the respondent has two or more power systems 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	105,260	Tuesday	19	1900	Integrated	59,069,230
30	February	104,312	Monday	8	1800	Integrated	54,577,455
31	March	94,617	Thursday	3	1900	Integrated	54,319,434
32	April	93,804	Monday	4	2000	Integrated	50,114,392
33	May	120,445	Tuesday	31	1800	Integrated	54,323,179
34	June	132,148	Monday	20	1700	Integrated	60,333,004
35	July	155,230	Friday	22	1700	Integrated	72,801,695
36	August	163,134	Friday	12	1600	Integrated	76,927,753
37	September	143,166	Friday	9	1600	Integrated	57,671,462
38	October	91,673	Wednesday	19	1900	Integrated	52,407,904
39	November	95,704	Monday	21	1800	Integrated	52,057,363
40	December	107,565	Monday	19	1800	Integrated	58,436,483
41						TOTAL	703,039,354

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 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.)
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 therm 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 501and

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 Instuction 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 shold 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 tthe 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
						11
						12
						13
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						30
						31
						32
						33
						34
						35
						36
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						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							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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31							
32							
33							
34							
35							
36							
37							

Note Reference:

* Indicates reheat boilers thusly, 1050/1000.

STEAM GENERATING STATIONS -- Continued

expenses ro 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 lesse, 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 (I)	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
											6
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											33
											34
											35
											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.
*+ Shoule 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 therof, 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							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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35							
36							
37							

* Horizontal or vertical. Also inidcate 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)		
										1
										2
										3
										4
										5
										6
										7
										8
										9
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										34
										35
										36
										37
						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)	Prime Movers: Name of Maker (d)	Prime Movers: Year Installed (e)	Prime Movers: 2 or 4 Cycle (f)	Prime Movers: Belted or Direct Connected (g)
1							
2							
3							
4							
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39							

COMBUSTION ENGINE AND OTHER GENERATING STATIONS -- Continued

(except nuclear stations)

ship by respodent, 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						
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)	Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
									1
									2
									3
									4
									5
									6
									7
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									10
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									36
									37
					TOTALS				38
									39

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 Commision, or operated as a joint facility, and give a concise statement of the facts in a footnote.
3. List plants appropriately under subheadings for steam, hydro, nuclear internal combustion engine and gas turbine stations. For nuclear, see instructions 10 page 59.
4. Specify if total plant capacity is reported in kva instead of kilowatts.
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) Labor (h)	Fuel (i)	Other (j)	Kind of Fuel (k)	Fuel Cost Per KWH Net Generation (Cents) 0.00 (l)
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
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22												
23												
24												
25												
26												
27												
28		TOTALS										

TRANSMISSION LINE STATISTICS

Reposrt information concerning transmission lines as Indicated below.

Line No.	Designation		Operating Voltage	Type of Supporting Structure	Length (Pole Miles)		Number of Circuits	Size of Conductor and Material
	From (a)	To (b)	(c)	(d)	On Structures of Line Designated (e)	On Structures of Another Line (f)	(g)	(h)
1	Woburn/	Causeway Rd.	115 kV	Single	.46 Miles	No	1.00	795 MCM
2	Reading	Reading		Wood Poles				ALL ALUM
3	211-503							
4								
5	Woburn/	Causeway Rd.	115 kV	Single	.46 Miles	No	1.00	795 MCM
6	Reading	Reading		Wood Poles				ALL ALUM
7	211-504							
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
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21								
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27								
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32								
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34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47				TOTALS				

* Where other than 60 cycle, 3 phase, so indicate.

SUBSTATIONS

1. Report below rhe 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 or each sub-station, designating whether transmission or distribution and whether attended or unattended.
5. Show in columns (i), (j), and (k) special equipment such as rotary converters, reflectors, condensers, etc. and auxilary 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 Primary (c)	VOLTAGE Secondary (d)	VOLTAGE Tertiary (e)	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 Type of Equipment (i)	Conversion Apparatus and Special Equipment Number Of Units (j)	Conversion Apparatus and Special Equipment 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	All transformer ratings are at the top forced air rating.										
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	TOTAL
1	Miles - Beginning of Year	335.30	0.00	335.30
2	Added During Year	0.22		0.22
3	Retired During Year	0.00		0.00
4	Miles - End of Year	335.52	0.00	335.52
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	30,078	30,908	4,541	309,672.0
17	Additions during year:				
18	Purchased		316	192	14,220.0
19	Installed	632			
20	Associated with Utility Plant Acquired				
21	**Total additions**	**632**	**316**	**192**	**14,220.0**
22	Reduction During Year:				
23	Retirements	138	172	147	7,556.5
24	Associated with Utility Plant Sold				
25	**Total Reductions**	**138**	**172**	**147**	**7,556.5**
26	**Number at End of Year**	**30,572**	**31,052**	**4,586**	**316,335.5**
27	In Stock		830	0	0.0
28	Locked Meters on Customers' Premises				
29	Inactive Transformers on System				
30	In Customers' Use		30,572		
31	In Company's Use				
32	**Number at End of Year**		**31,402**	**4,586**	**316,335.5**

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						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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19						
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21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34	TOTALS					

*Indicate number of conductors per cable.

STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town	Total	TYPE							
			Incandescent		Mercury Vapor		Fluorescent / LED		High Press. Sodium	
			Municipal	Other	Municipal	Other	Municipal	Other	Municipal	Other
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	Reading	2,400	0	0	6	0	399	0	1,995	0
2	Lynnfield	812	0	0	332	0	169	0	311	0
3	North Reading	1,333	0	0	75	0	162	0	1,096	0
4	Wilmington	2,651	0	0	661	0	361	0	1,629	0
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52	TOTALS	7,196	0		1,074				5,031	

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

Town of Reading, Massachusetts
Municipal Light Department

MDPU # 259 supersedes and cancels MDPU # 250

Residential Schedule A Rate

Designation:
Residential A Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Individual residential customers for all domestic uses where service is taken through one meter. Incidental commercial use, not exceeding 20% of the total energy used on the same premises is permitted.

Character of service:
A.C. 60 cycles: single phase.

Customer Charge:
$4.51 per month

Distribution Energy Charge:
$.05905 per Kilowatt-hour for all Kilowatt-hours usage

Budget Billing:
The customers under this rate will have available to them a budget billing program under which the customer is required to pay a levelized amount to the Department each billing period during the calendar year. The specifics of this program are outlined in the Department's General Terms and Conditions.

Low Income Discount
The Customer Charge under this rate will be waived upon verification of a low-income customer's receipt of any means-tested public benefit, or verification of eligibility for the low-income home energy assistance program, or its successor program, for which eligibility does not exceed 200 percent of the federal poverty level based on a household's gross income. In a program year in which maximum eligibility for LIHEAP exceeds 200 percent of the federal poverty level, a household that is income eligible under LIHEAP shall be eligible for the low-income electric discount. It is the responsibility of the customer to annually certify, by forms provided by the utility, the continued compliance with the foregoing qualifications.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

Residential Schedule A Rate (cont'd)

Farm Discount:
Customers who meet the eligibility requirements set forth by the Massachusetts Department of Food and Agriculture for being engaged in the business of agriculture or farming, and upon certification to the RMLD by the Massachusetts Department of Food and Agriculture, will be eligible for an additional 10% discount, prior to the RMLD prompt payment discount, on rates and charges applicable on their monthly billing statement.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts
Municipal Light Department

MDPU # 260 supersedes and cancels MDPU # 251

Residential Schedule RW
Controlled Water Heater Rate

Designation:
Residential RW Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Individual residential customers for all domestic uses where service is taken through one meter. Incidental commercial use, not exceeding 20% of the total energy used on the same premises is permitted.

Character of service:
A.C. 60 cycles: single phase.

Terms of Use:
When a customer regularly uses an electric water heater of a type approved by the Department, service to the water heater will be controlled by a Department owned timing device. Customer also needs a customer owned internet connection. Internal wiring will be the responsibility of the customer. Water heater with two elements shall be interlocked to prevent simultaneous operation.

Customer Charge:
$4.52 per month.

Distribution Energy Charge:
$.04529 per Kilowatt-hour for all Kilowatt-hours usage

Budget Billing:
The customers under this rate will have available to them a budget billing program under which the customer is required to pay a levelized amount to the Department each billing period during the calendar year. The specifics of this program are outlined in the Department's General Terms and Conditions.

Low Income Discount
The Customer Charge under this rate will be waived upon verification of a low-income customer's receipt of any means-tested public benefit, or verification of eligibility for the low-income home energy assistance program, or its successor program, for which eligibility does not exceed 200 percent of the federal poverty level based on a household's gross income. In a program year in which maximum eligibility for LIHEAP exceeds 200 percent of the federal poverty level, a household that is income eligible under LIHEAP shall be eligible for the low-income electric discount. It is the responsibility of the customer to annually certify, by forms provided by the utility, the continued compliance with the foregoing qualifications.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

Residential Schedule RW
Controlled Water Heater Rate (cont'd)

Farm Discount:
Customers who meet the eligibility requirements set forth by the Massachusetts Department of Food and Agriculture for being engaged in the business of agriculture or farming, and upon certification to the RMLD by the Massachusetts Department of Food and Agriculture, will be eligible for an additional 10% discount, prior to the RMLD prompt payment discount, on rates and charges applicable on their monthly billing statement.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts
Municipal Light Department

MDPU # 261 supersedes and cancels MDPU # 252

Residential Time-of-Use Schedule A2 Rate

Designation:
Residential Time-of-Use A2 Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Individual residential customers for all domestic uses where service is taken through one On-Peak and Off-Peak meter. Incidental commercial use, not exceeding 20% of the total energy used on the same premises is permitted.

Character of service:
A.C. 60 cycles: single phase.

Customer Charge:
$7.15 per month.

Distribution Energy Charge:
$.08798 per Kilowatt-hour for all Kilowatt-hours usage during the On-Peak hours.

$.01815 per Kilowatt-hour for all Kilowatt-hours usage during the Off-peak hours.

Definition of Periods:
The On-Peak period is defined as the hours between 12:00 Noon and 7:00 P.M. Monday through Friday except holidays as listed under the "Granted Holidays" paragraph listed below. The Off-Peak period is defined as the hours between 7:00 P.M. and 12:00 Noon Monday through Friday and all hours Saturday, Sunday and granted holidays as listed below.

Controlled Water Heater Allowance:
When a customer regularly uses an electric water heater of a type approved by the Department, 333 kWh will be credited to usage during the Off-Peak period and will be billed at $.00300 per kWh. All kWh used Off-Peak above 333 kWh will be charged at the regular Off-Peak rate. If less than 333 kWh are used Off-Peak then only that amount of kWh will be billed at $.00300 per kWh. Water heater with two elements shall be interlocked to prevent simultaneous operation. Service to the water heater will be controlled by a Department owned time switch in an approved outdoor socket.

Term:
A customer electing to be billed under this rate must remain on this rate for a minimum of one year. At the end of one year on this rate a customer may elect to remain on this rate or be billed under the Residential A Rate.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

Residential Time-of-Use Schedule A2 Rate (cont'd)

Budget Billing:
The customers under this rate will have available to them a budget billing program under which the customer is required to pay a levelized amount to the Department each billing period during the calendar year. The specifics of this program are outlined in the Department's General Terms and Conditions.

Low Income Discount
The Customer Charge under this rate will be waived upon verification of a low-income customer's receipt of any means-tested public benefit, or verification of eligibility for the low-income home energy assistance program, or its successor program, for which eligibility does not exceed 200 percent of the federal poverty level based on a household's gross income. In a program year in which maximum eligibility for LIHEAP exceeds 200 percent of the federal poverty level, a household that is income eligible under LIHEAP shall be eligible for the low-income electric discount. It is the responsibility of the customer to annually certify, by forms provided by the utility, the continued compliance with the foregoing qualifications.

Farm Discount:
Customers who meet the eligibility requirements set forth by the Massachusetts Department of Food and Agriculture for being engaged in the business of agriculture or farming, and upon certification to the RMLD by the Massachusetts Department of Food and Agriculture, will be eligible for an additional ten percent discount, prior to the RMLD prompt payment discount, on rates and charges applicable on their monthly billing statement.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge, Distribution Demand Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

Residential Time-of-Use Schedule A2 Rate (cont'd)

Granted Holidays
Under the Residential Time-of-Use Schedule A2 Rate the holidays granted for Off-Peak are: New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Columbus Day, Veteran's Day and Christmas Day.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts
Municipal Light Department

MDPU # 262 supersedes and cancels MDPU # 253

Commercial Schedule C Rate

Designation:
Commercial C Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Service under this rate is available to industrial or commercial customers who take all their requirements under this rate. All electricity furnished under this rate will be metered through one service unless it is convenient for the Department to do otherwise.

Character of service:
AC 60 cycles: single phase or three phase.

Customer Charge:
$7.76 per month.

Distribution Demand Charge:
$8.12 per Kilowatt for all demand usage.

Distribution Energy Charge:
$.01723 per Kilowatt-hour for all Kilowatt-hours usage.

Budget Billing:
The customers under the C Rate may elect the Budget Billing program under which the customer is required to pay the levelized amount to the Department each billing period during the calendar year. This rate is not available to C Rate Customers electing the Contract Demand Rate, or the Non-Firm Demand Rate. The specifics of this program are outlined in the Department's General Terms and Conditions.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

Commercial Schedule C Rate (cont'd)

Measurement of Billing Demand:
The billing demand shall be the highest of the fifteen minute kilowatt demand established during the billing period, but not less than eighty percent of the maximum demand established during the preceding summer season or sixty percent of the maximum demand established during the winter season.

Definitions of Seasons:
The summer season is defined as the months of June through September and the winter season is defined as the months of October through May.

Farm Discount:
Customers who meet the eligibility requirements set forth by the Massachusetts Department of Food and Agriculture for being engaged in the business of agriculture or farming, and upon certification to the RMLD by the Massachusetts Department of Food and Agriculture, will be eligible for an additional ten percent discount, prior to the RMLD prompt payment discount, on rates and charges applicable on their monthly billing statement.

Customer Transformer Ownership:
A customer requiring a minimal transformer capacity of over 2,000 kW will be required to furnish its own transforming and protective equipment, including mat, vault, primary and secondary cables, conduits, etc., which must comply with the specifications of the Department. The following discounts apply when the above is complied with:

$.12 per kilowatt of demand when the service is taken at 2,400/4,160 volts.

$.25 per Kilowatt of demand when the service is taken at 13,800 volts.

$.375 per Kilowatt of demand when the service is taken at 34,500 volts.

Primary Metering Discount:
The Department may, at its option, meter at the customer's utilization voltage or on the high side of the transformer through which the service is furnished. In the latter case, or if the customer's utilization voltage requires no transformation, a discount of 1.8% will be applied to the bill's consumption charges but in no case will such discount be allowed if the metering voltage is less than 2,400 voltage.

Commercial Schedule C Rate (cont'd)

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge, Distribution Demand Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

General Terms:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts
Municipal Light Department

MDPU # 263 supersedes and cancels MDPU # 254

Industrial Time-of-Use Schedule I Rate

Designation:
Industrial Time-of-Use I Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Service under this rate is available to industrial or commercial customers who take all their requirements under this rate. All electricity furnished under this rate will be metered using an electronic meter capable of metering On-Peak and Off-Peak energy as well as kW demand.

Character of service:
A.C. 60 cycles: single phase or three phase.

Customer Charge:
$35.77 per month.

Distribution Demand Charge:
$8.94 per Kilowatt for all demand usage.

Definition of Periods:
The On-Peak period is defined as the hours between 12:00 Noon and 7:00 P.M., Monday through Friday except holidays as listed below. The Off-Peak period is defined as the hours between 7:00 P.M. and 12:00 Noon, Monday through Friday and all hours Saturday, Sunday and granted holidays as listed below.

Term:
A customer electing to be billed under this rate must remain on this rate for a minimum of one year. At the end of one year on this rate a customer may elect to remain on this rate or be billed under the Commercial C Rate.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

Industrial Time-of-Use Schedule I Rate (cont'd)

Measurement of Billing Demand:
The Billing demand shall be the highest of the fifteen minute On Peak kilowatt demand established during the billing period, but not less than eighty percent of the maximum On Peak demand established during the preceding summer season or sixty percent of the maximum On Peak demand established during the winter season.

The summer season is defined as the months of June through September and the winter season is defined as the months of October through May.

Farm Discount:
Customers who meet the eligibility requirements set forth by the Massachusetts Department of Food and Agriculture for being engaged in the business of agriculture or farming, and upon certification to the RMLD by the Massachusetts Department of Food and Agriculture, will be eligible for an additional ten percent discount, prior to the RMLD prompt payment discount, on rates and charges applicable on their monthly billing statement.

Customer Transformer Ownership:
A customer requiring a minimal transformer capacity of over 2000 kW will be required to furnish its own transforming and protective equipment, including mat, vault, primary and secondary cables, conduits, etc., which must comply with the specifications of the Department. The following discounts apply when the above is complied with:

$.12 per Kilowatt of demand when the service is taken at 2,400/4,160 volts.

$.25 per Kilowatt of demand when the service is taken at 13,800 volts.

$.375 per Kilowatt of demand when the service is taken at 34,500 volts.

Primary Metering Discount:
The Department may, at its option, meter at the customer's utilization voltage or on the high side of the transformer through which the service is furnished. In the latter case, or if the customer's utilization voltage requires no transformation, a discount of 1.8% will be applied to the bill's consumption charges but in no case will such discount be allowed if the metering voltage is less than 2,400 voltage.

Industrial Time-of-Use Schedule I Rate (cont'd)

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge, Distribution Demand Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

Granted Holidays
Under the Industrial Time-of-Use Schedule I Rate the holidays granted for Off-Peak are; New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Columbus Day, Veteran's Day and Christmas Day.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts
Municipal Light Department

MDPU # 264 supersedes and cancels MDPU # 255

School Schedule SCH Rate

Designation:
School SCH Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Applicable to public or private schools offering kindergarten, regular elementary, middle, and high school as approved by the Department, who take all their requirements under this rate. All electricity furnished under this rate will be metered through one service unless it is convenient for the Department to do otherwise.

Character of service:
AC 60 cycles: single phase or three phase.

Customer Charge:
$7.15 per month.

Distribution Demand Charge:
$7.48 per Kilowatt for all demand usage.

Distribution Energy Charge:
$.01180 per Kilowatt-hour for all Kilowatt-hours usage.

Budget Billing:
The customers under the School Rate may elect the Budget Billing program under which the customer is required to pay levelized amount to the Department each billing period during the calendar year.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

School Schedule SCH Rate (cont'd)

Measurement of Billing Demand:
The billing demand shall be the highest of the fifteen minute Kilowatt demand established during the billing period, but not less than eighty percent of the maximum demand established during the preceding summer season or sixty percent of the maximum demand established during the winter season.

Definitions of Seasons:
The summer season is defined as the months of June through September and the winter season is defined as the months of October through May.

Customer Transformer Ownership:
A customer requiring a minimal transformer capacity of over 2000 kW will be required to furnish its own transforming and protective equipment, including mat, vault, primary and secondary cables, conduits, etc., which must comply with the specifications of the Department. The following discounts apply when the above is complied with:

$.12 per kilowatt of demand when the service is taken at 2,400/4,160 volts.

$.25 per Kilowatt of demand when the service is taken at 13,800 volts.

$.375 per Kilowatt of demand when the service is taken at 34,500 volts.

Metering:
The Department may, at its option, meter at the customer's utilization voltage or on the high side of the transformers through which the service is furnished.

In the latter case, or if the customer's utilization voltage requires no transformation, a discount of 1.8% will be applied to the bill but in no case will such a discount be allowed if the metering voltage is less than 2,400 volts.

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge, Distribution Demand Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

General Terms:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

Town of Reading, Massachusetts
Municipal Light Department

MDPU # 265 supersedes and cancels MDPU # 256

Private Street Lighting Rate Schedule D

Designation:
Street Light D Rate

Available:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Street and Area Light service on all public, private, and unaccepted streets and areas where the Department has facilities for supplying electricity and where the installation work involved is limited to the necessary lighting unit and connection on the same pole. This Schedule does not apply to Public Street Lighting Service supplied directly to the Municipalities.

Energy Charge:
The rate per year for the standard 4,000-hour schedule is as follows:

Fixture Type	Annual Rate $	Annual kWh
100 Watt Mercury	63.79	500
175 Watt Mercury	70.91	860
400 Watt Mercury	117.59	1,900
50 Watt HPS	73.46	240
100 Watt HPS	93.75	500
250 Watt HPS	123.79	1,200
400 Watt HPS	171.95	1,900
25 Watt LED - Standard	61.91	100
42 Watt LED – Non - Standard	69.08	168
101 Watt LED – Non - Standard	111.36	404
93 Watt LED Flood - Standard	159.37	372
134 Watt LED Flood – Non - Standard	195.13	536

Note: Mercury lamps will no longer be supplied for new installations.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard fuel Adjustment Clause.

The Fuel Adjustment will appear on the bill as the monthly fuel charge multiplied by one twelfth of the Annual kWh shown above for each Fixture Type.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

Private Street Lighting Rate Schedule D (cont'd)

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

The Purchase Power Capacity and Transmission Charge will appear on the bill as the monthly charge multiplied by one twelfth of the Annual kWh shown above for each Fixture Type.

Extra Pole Cost
When an extra pole is required, specifically for street lighting, there will be an extra cost based upon pole size, including up to 100 feet of secondary.

30 foot or 35 foot Class 4 pole	$48.40 per year
40 foot Class 4 pole	$52.80 per year

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the current bill, excluding Fuel and Purchased Power Capacity and Transmission Charges, only if the entire bill is paid-in-full by the discount due date.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts
Municipal Light Department

MDPU # 266 supersedes and cancels MDPU #257

Municipal LED Street Lighting Rate

Designation:
LED Street Light Rate

Available:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:

Public Street Light service using LED fixtures supplied directly to the Municipalities where the Department has private facilities for supplying electricity and where the installation work involved is limited to the necessary lighting unit and connection to the same pole.

Energy Charge:
The rate per year for the standard 4,000-hour schedule is as follows:

Fixture Type	Annual Rate $	Annual kWh
25 Watt LED – Standard	23.99	100
42 Watt LED – Non-Standard	24.67	168
101 Watt LED – Non - Standard	32.37	404
93 Watt LED Flood - Standard	49.12	372
134 Watt LED Flood – Non - Standard	56.42	536

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard fuel Adjustment Clause. The Fuel Adjustment will appear on the bill as the monthly fuel charge multiplied by one twelfth of the Annual kWh shown above for each Fixture Type.

Purchase Power Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Adjustment. The Purchase power Adjustment will appear on the bill as the monthly charge multiplied by one twelfth of the Annual kWh shown above for each Fixture Type.

Rate Filed: June 8, 2016
Effective: On Billings on or After July 1, 2016
Filed By: Coleen M. O'Brien, General Manager

Municipal LED Street Lighting Rate (cont'd)

Extra Pole Cost
When an extra pole is required, specifically for street lighting, there will be an extra cost based upon pole size, including up to 100 feet of secondary.

30 foot or 35 foot Class 4 pole	$48.40 per year
40 foot Class 4 pole	$52.80 per year

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 10% will be allowed on the current bill, excluding fuel adjustment charges, only if the entire bill is paid-in-full by the discount due date.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts
Municipal Light Department

MDPU #247 supersedes and cancels MDPU # 245

Municipal Street Lighting Schedule F Formula Rate

Designation:

Street Light F Rate

Available:

Reading, Lynnfield Center, North Reading and Wilmington

Applicable to:

Public Street Lighting Service supplied directly to the Municipalities where the Department has private facilities for supplying electricity and where the installation work involved is limited to the necessary lighting unit and connection on the same pole.

Energy Charge:

The rate per kilowatt-hour will be determined annually using the following formula as set forth in Massachusetts General Law Chapter 164 Section 58:

$$\frac{\textit{Total Operating Expenses \& Interest on Outstanding Debt \& Depreciation Expense}}{\textit{Total kilowatt} - \textit{hours sold including street lighting}}$$

This rate will be calculated prior to each Fiscal Year based on budgeted expenses and kilowatt-hours and will be trued up to actual expenses and kilowatt-hours, with any adjustment being carried forward to the next Fiscal Year. For purposes of calculating the kilowatt-hours used by each type of fixture the following values will be used:

Fixture Type	Annual KWh
50 Watt HPS	240
100 Watt HPS	500
100 Watt Mercury	500
175 Watt Mercury	860
250 Watt HPS	1,200
400 Watt Mercury	1,900
400 Watt HPS	1,900

Note: Mercury lamps will no longer be supplied for new installations.

General Terms and Conditions:

Rate Filed: December 24, 2014
Effective: January 1, 2015
Filed By: Coleen M. O'Brien, General Manager

Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Rate Filed: December 24, 2014
Effective: January 1, 2015
Filed By: Coleen M. O'Brien, General Manager

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

..... *Mayor.*

..... *Manager of Electric Light*

Coleen M. O'Brien, General Manager

..... *Selectmen*

Thomas O'Rourke, Chair

..... *or*

Philip B. Pacino, Vice Chair

..... *Members*

David Talbot

..... *of the Municipal*

John Stempeck

..... *Light Board*

David Hennessy

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

Middlesex ss 4/28/17

Then personally appeared.. COLEEN M. O'BRIEN

THOMAS O'ROURKE

PHILIP B. PACINO

DAVID TALBOT

JOHN STEMPECK

DAVID HENNESSY

TRACY ANN SCHULTZ
Notary Public
COMMONWEALTH OF MASSACHUSETTS
My Commission Expires On
July 08, 2023

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

..... *Notary Public or*
Justice of the Peace