

**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,**

**2019**

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**

TABLE OF CONTENTS

General Information	3
Schedule of Estimates	4
Customers in each City or Town	4
Appropriations Since Beginning of Year	5
Changes in the Property	5
Bonds	6
Town Notes	7
Cost of Plant	8-9
Comparative Balance Sheet	10-11
Income Statement	12-13
Earned Surplus	12
Cash Balances	14
Materials and Supplies	14
Depreciation Fund Account	14
Utility Plant - Electric	15-17
Production of Fuel and Oil Stocks	18
Miscellaneous Nonoperating Income	21
Other Income Deductions	21
Miscellaneous Credits to Surplus	21
Miscellaneous Debits to Surplus	21
Appropriations of Surplus	21
Municipal Revenues	22
Purchased Power	22
Sales for Resale	22
Electric Operating Revenues	37
Sales of Electricity to Ultimate Consumers	38
Electric Operation and Maintenance Expenses	39-42
Taxes Charged During Year	49
Other Utility Operating Income	50
Income from Merchandising, Jobbing and Contract Work	51
Monthly Peaks and Output	57
Generating Station Statistics	57
Steam Generating Stations	58-59
Hydroelectric Generating Stations	60-61
Combustion Engine and Other Generating Stations	62-63
Generating Statistics (Small Stations)	64-65
Transmission Line Statistics	66
Substations	67
Overhead Distribution Lines Operated	68
Electric Distribution Services, Meters and Line Transformers	69
Conduit, Underground Cable and Submarine Cable	69
Street Lamps	71
Rate Schedule Information	79
Signature Page	81

**FOR GAS PLANTS ONLY:**

	Page		Page
Utility Plant - Gas	19-20	Gas Generating Plant	74
Gas Operating Revenues	43	Boilers	75
Sales of Gas to Ultimate Consumer	44	Scrubbers, Condensers and Exhausters	75
Gas Operation & Maint.. Expenses	45-47	Purifiers	76
Purchased Gas	48	Holder	76
Sales for Resale	48	Transmission and Distribution Mains	77
Sales of Residuals	48	Gas Distribution Services, House Governors	
Record of Sendout for the Year in M	72-73	and Meters	78

PAGES INTENTIONALLY OMITTED: 23 TO 36

### 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<br>230 Ash Street<br>Reading, MA 01867  |
| 4. Name and address of mayor or selectman  | Vanessa I. Alvarado, Chair<br>Barry C. Berman, Vice Chair<br>Daniel Ensminger, Secretary<br>John R. Halsey<br>Andrew S. Friedmann |
| 5. Name and address of town (or city) treasurer:   | Endri Kume<br>16 Lowell Street<br>Town Hall<br>Reading, MA 01867  |
| 6. Name and address of town (or city) clerk:   | Laura A. Gemme<br>16 Lowell Street<br>Town Hall<br>Reading, MA 01867  |
| 7. Names and addresses of members of municipal light board:  | David Talbot, Chair<br>John Stempeck, Vice Chair<br>Phillip B. Pacino<br>David Hennessy<br>Thomas O'Rourke                        |
| 8. Total valuation of estates in town (or city) according to last state valuation                      | \$5,143,405,400.00  |
| 9. Tax rate for all purposes during the year:  | \$14.23   |
| 10. Amount of manager's salary:  | \$208,114.23  |
| 11. Amount of manager's bond:  | \$50,000.00   |
| 12. Amount of salary paid to members of municipal light board (each)                                   | \$0.00  |

**FURNISH SCHEDULE OF ESTIMATES REQUIRED BY GENERAL LAWS, CHAPTER 164, SECTION 57 FOR GAS AND ELECTRIC LIGHT PLANTS FOR THE FISCAL YEAR ENDING DECEMBER 31, NEXT**

<b>INCOME FROM PRIVATE CONSUMERS:</b>		
1	From sales of gas.....	
2	From sales of electricity .....	88,311,977.00
3		
4	<b>TOTAL</b>	<b>88,311,977.00</b>
5	<b>Expenses:</b>	
6	For operation, maintenance and repairs.....	79,198,871.00
7	For interest on bonds, notes or scrip.....	
8	For depreciation fund ( 3% on \$150,800,000.00 ).....	4,525,997.00
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	
12	For loss in preceding year.....	
13	<b>TOTAL</b>	<b>83,724,868.00</b>
14		
15	<b>Cost:</b>	
16	Of gas to be used for municipal buildings.....	
17	Of gas to be used for street lights.....	
18	Of electricity to be used for municipal buildings.....	
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 <b>GAS</b> , with the number of customers' meters in each		Names of cities of towns in which the plant supplies <b>ELECTRICITY</b> , with the number of customers' meters in each	
City or Town	Number of Customers' Meters, Dec 31.	City or Town	Number of Customers' Meters, Dec 31.
		Reading	10,612
		Lynnfield	3,120
		North Reading	6,805
		Wilmington	9,554
		Co-Op Resale	20
		<b>TOTAL</b>	<b>30,111</b>

**APPROPRIATIONS SINCE BEGINNING OF YEAR**

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

**FOR CONSTRUCTION OR PURCHASE OF PLANT:**

* At	meeting	19	, to be paid from {	\$	
* 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 2019 CONSTRUCTION HIGHLIGHTS***

**PEAK DEMAND**

The Reading Municipal Light Department's (RMLD) system peak demand in Calendar Year 2019 was 155,117 kW occurring on July 30, 2019, at 2:00 pm. This was 10.07% lower than the highest peak demand of 172,493 kW set in August 2006. RMLD purchased 671,071,159 kWh in Calendar, Year 2019.

**LINE CONSTRUCTION**

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

**READING**

- 4W5/4W12 Getaway Upgrades - Separated 4W5 and 4W12 getaways, and installed a cable tray system and associate hardware to improve feeder capacity. Project also included installation of two (2) new riser poles and upgrade or replacement of poles and associated hardware from Station 4 to West Street.
- 4W6 Getaway Replacement – upgrade of 1,35 circuit feet of underground cable from Station 4 to West Street.
- 4W16 Getaway Replacement – upgrade of 2,500 circuit feet of underground cable from Station 4 to Causeway Road/Lowell Street.
- Franklin and Grove Street Pole Upgrade – Pole 36 on Grove Street was upgraded to alleviate excess loading. This required the installation of an intermediate pole on Franklin Street as well as a new pole and associated hardware to replace the failing pole (#36) on Grove Street.
- Deborah Drive Area Upgrade - replaced nine (9) poles, primary and secondary cable, transformers, and services, as necessary.
- Applegate Lane/Covey Hill Road Area Upgrade - replaced five (5) poles and upgraded approximately 1,100 feet of primary cable. Upgrade to ~800 feet of secondary cable and upgrade of secondary services.

- Back Bay Court - replaced one pad-mount transformer
- Gazebo Circle – replaced one pad-mount transformer
- Lafayette Road - replace one pad-mount transformer
- Scotland Road - replaced one overhead transformer
- Notable examples of new service additions or upgrades:
  - PostMark Square, 136 Haven Street (temp service)
  - School House Commons, 172 Woburn Street
  - Lincoln Street Apartments, 35 Lincoln Street
  - Old Reading School House Condos, 52 Sanborn Street
  - Reading Woods, 16 Taylor Drive

## WILMINGTON

- Replaced approximately 1,000 feet of open wire primary cable with 336 AL spacer cable between Andover Street and Salem Street on the 5W5 circuit. This included five new poles and associated hardware.
- Installed 2,050 feet of three-phase underground cable and 1,000 feet of overhead spacer cable and related hardware to upgrade the service feeding Marion Street and Eleanor Drive.
- McDonald Road Conversion - converted the distribution voltage in the McDonald Road area from 2,400 volts to 7,970 volts. The distribution voltage was raised to 7,970 by de-energizing the area, changing the ratio switches on each transformer from 2,400 to 7,970, changing all the fuses, disconnecting and removing the stepdown transformer that are used to feed the area, and then re-energizing at 7,970 volts directly from circuit 5W8 on Salem Street.
- Grove Avenue Area Conversion - de-energized and removed the stepdown transformer, changed the ratio switches on each transformer to the 7,960 volt tap position, replaced the fuses for the new distribution voltage and re-energized the area at 7,960 volts.
- Notable examples of new service additions or upgrades:
  - Heilind Electronics, 58 Jonspin Road
  - NER Construction Management, 867 Woburn Street
  - Analog Devices, 804 Woburn Street

## **NORTH READING**

- Burditt Road Area Upgrade- Seven sections of open wire secondary were replaced with 4/0 ACSR secondary, and seven sections of #4 copper primary were replaced with 1/0 ACSR primary. Any copper services were upgraded with 1/0 ACSR triplex. Replaced two poles on Kingston Street and replaced two sections of primary and secondary. Three transformers serving this area were upgraded.
- Abbott Road - replaced one overhead transformer
- Gloria Lane – replaced one pad-mount transformer as well as the riser pole and all underground cable.
- Notable examples of new service additions or upgrades:
  - Arenhall Corporation, 35 Main Street
  - Martins Landing, 200-230 Martins Landing
  - Pluff Realty, LLC, 291 Main Street

## **LYNNFIELD**

- Gerry/Drury Road Area Upgrade (13.8kV Step-down) - Verizon replaced 40 poles, and RMLD replaced all primary cable, secondary cable, transformers, and services. The area was converted from 4kV distribution to 13.8kV distribution.
- Thomas, Putney, Bancroft, and Atherton Area Upgrade (13.8kV Step-down) - Verizon replaced 44 poles, and RMLD replaced eleven transformers, all primary conductors, all secondary conductors, and residential service feeds. The area was converted from 4kV distribution to 13.8kV distribution. This project was completed early 2020.
- Essex Street Conversion - converted the distribution voltage from the stepdown transformer on pole 58 on Essex Street from 2,400 volts to 7,970 volts providing service to one pole mount transformer on Essex Street, and four pad-mount transformers in Woodwind Estates (Jordan Road, Currie Circle and Evans Road). Upgraded three of four transformers in Woodwind Estates and the pole mount transformer on Essex Street. The conversion was completed by de-energize the area, changing the ratio switches on each transformer from 2,400 to 7,970, changing all the fuses, disconnecting and removing the stepdown transformer, and re-energizing at 7,970 volts directly from circuit 3W8 on Essex Street.

- Todd Lane and Cranberry Lane, Lynnfield - two (2) pad-mount transformers and secondary connections in the manholes were replaced as well as 2,860 feet of primary underground cable.
- Friendship Lane – Replaced one aged pad-mount transformer and underground cable.
- Moran Road, Lynnfield – Replaced one aged pad-mounted transformer and underground cable.

### **CUSTOMER CALLS**

The Department answered approximately 2,312 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 38 calls related to utility pole hits as a result of motor vehicle accidents.

### **POLE REPLACEMENTS**

The Department completed approximately 75 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 5,313 DIGSAFE calls.

### **METERS**

Between the Meter and Line departments, service upgrades, new construction, and renovations resulted in a total of 385 new overhead and underground residential and commercial/industrial services delineated as follows:

- Reading – 189 residential and 10 commercial/industrial
- Lynnfield – four (4) residential and one (1) commercial/industrial
- North Reading – 123 residential and 15 commercial/industrial
- Wilmington – 32 residential and 11 commercial/industrial

A total of 348 new residential services represent a 138% increase from new residential services in CY18 (146). A total of 37 commercial/industrial services were installed representing a 37% increase over the previous year's total of 27.

Five hundred and seven (507) meters were replaced due to routine residential and commercial meter replacements.

## **TREE TRIMMING AND PREVENTATIVE MAINTENANCE**

In 2019 RMLD continued its preventative maintenance program with tree trimming in Reading, North Reading, Lynnfield, and Wilmington (1,331 spans trimmed). Mayer Tree continued on the Station 4 right-of-way as we completed the 4W5 and 4W6 upgrades. West Street in Reading had multiple sections completed for this work due to over-growth. The Thomas Road area in Lynnfield, which consisted of multiple streets, was also trimmed in preparation for an area conversion. The entire neighborhood in the Gerry Road area of Lynnfield was trimmed out in preparation for an area upgrade. Mayer Tree also responds with us on emergencies, regular customer requests, and private tree trimming or removals in all four towns

## **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 48.73 average minutes of outage time, and SAIFI was 0.34 instances.

SAIDI measures the average interruption duration (in minutes) for customers served by the utility. SAIDI was 16.56 minutes.

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

\*Per the APPA eReliability System.

## **RENEWABLE ENERGY**

RMLD is working with customers who wish to install renewable energy systems behind the retail meter. At the end of Calendar Year 2019, there were a total of 128 residential (907.02 kW) and 17 commercial (2,135 kW) sites generating solar energy within RMLD's service territory. In Calendar Year 2019, photovoltaic systems were added at 10 residential locations (one in Lynnfield, four in Reading, four in North Reading, and one in Wilmington). There were no commercial sites added in 2019.

RMLD continues to purchase the total output from several solar projects located on the RMLD distribution system at One Burlington Avenue in Wilmington, 326 Ballardvale Street in Wilmington, and 40-50 Fordham Road in Wilmington.

## **FACILITIES & FLEET**

### *Customer Parking Lot Improvement Project:*

In March 2019, RMLD Facilities Manager and Meridian Associates met with multiple town departments for a pre-construction meeting.

In September 2019, Edward F. Paige Corp. was selected as the contractor for the Customer Parking Lot Improvements Project. The project commenced on October 17, 2019, with the erecting of the construction fence. Excavation, stormwater system, electrical, concrete sidewalks, curbing, irrigation system, and the initial binder coat was installed. Due to weather conditions and the closing of the asphalt plants, the project will resume in the spring of 2020.

### *Emergency Stand-by Generator with ATS Replacement Project:*

In January 2019, the Facilities group selected PLM Electric Power Engineering as the firm to provide engineering services for the Emergency Stand-by Generator Replacement Project.

In June 2019, Power Products Systems LLC was selected as the contractor to supply the new Emergency Stand-by Generator.

In November 2019, Sparks Company, Inc. was selected as the contractor for the Construction and Installation of a New Stand-by Generator with ATS.

### *Roof Seal Coating Project:*

In March 2019, the Facilities group selected O'Brien Group LLC as the firm to conduct a roof infrared scan and submit a comprehensive report to be incorporated into the bid packet for the Remedial Coating System for Application Over an Existing Aged, EPDM Roof Membrane Project.

In June 2019, the bid submittals for Remedial Coating System for Application Over an Existing Aged EPDM Roof Membrane were rejected on the basis that no bid met the qualification specifications.

In October 2019, Eagle Rivet Roof Service Corporation was selected as the contractor for the Remedial Coating System for Application Over an Existing Aged, EPDM Roof Membrane Project. The project will commence as weather allows.

*Deck and Patio Renovation Project:*

In April 2019, the Facilities group selected Gienapp Architects as the firm to provide architectural and engineering services for the Deck and Patio Renovation Project.

In October 2019, Kneeland Construction Corp. was selected as the contractor for the Deck and Patio Renovation Project. The building permit was issued on December 10, 2019, and the project commenced on December 18, 2019, with the demolition of the former deck.

*Fire Safety:*

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:*

In September 2019, Premier Fence LLC was selected as the contractor for the Demolition and Installation of a Perimeter Security Fence Section and Gates at RMLD Substation 4. The project commenced on October 23, 2019, and was completed on October 25, 2019.

*Fleet:*

In November 2019, the Facilities group completed dielectric testing on 15 heavy-duty vehicles and hot stick tools. The Facilities group also performed preventive maintenance on 17 heavy-duty vehicles to provide proper operation of the mechanical and lift equipment for daily operation. The maintenance program ensures vehicles are safe and operational at all times, especially during significant weather events. In addition, preventative maintenance was performed on 21 light-duty vehicles during the year.

In August 2019, the Facilities Department received one new propane fork truck with the trade in of one 1999 propane fork truck (former fork truck FT-1).

**BONDS**

(Issued on Account of Gas or Electric Lighting)

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

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

\*Date of meeting and whether regular or special

**TOWN NOTES**

(Issued on Account of Gas or Electric Lighting)

When Authorized	Date of Issue	Amount of Original Issue	Period of Payments		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					
	<b>TOTAL</b>	<b>4,324,827.00</b>					<b>0.00</b>

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



**TOTAL COST OF PLANT - ELECTRIC (Continued)**

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	<b>C. Hydraulic Production Plant</b>						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams and Waterways						
5	333 Water wheels, Turbines and Generators.....						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads and Bridges.....						
9	<b>Total Hydraulic Production Plant</b>						
10	<b>D. Other Production Plant</b>						
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.....	2,479,336.00					2,479,336.00
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	<b>Total Other Production Plant</b>	2,479,336.00	0.00	0.00	0.00	0.00	2,479,336.00
19	<b>Total Production Plant</b>	2,479,336.00	0.00	0.00	0.00	0.00	2,479,336.00
20	<b>3. Transmission Plant</b>						
21	350 Land and Land Rights.....	25,015.00					25,015.00
22	351 Clearing Land and Rights of Way						
23	352 Structures and Improvements.....	1,584,213.00					1,584,213.00
24	353 Station Equipment.....	5,680,751.00					5,680,751.00
25	354 Towers and Fixtures.....	86,169.00					86,169.00
26	355 Poles and Fixtures.....	300,248.00					300,248.00
27	356 Overhead Conductors and Devices...	229,661.00					229,661.00
28	357 Underground Conduits.....	44,049.00	207.00				44,256.00
29	358 Underground Conductors and Devices	61,954.00					61,954.00
30	359 Roads and Trails.....						
31	<b>Total Transmission Plant</b>	<b>8,012,060.00</b>	<b>207.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>8,012,267.00</b>

**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	10,491,396.00	207.00	0.00	0.00	0.00	10,491,603.00
1	<b>4. DISTRIBUTION PLANT</b>						
2	360 Land and Land Rights	843,454.00					843,454.00
3	361 Structures and Improvements	7,223,078.00	73,358.00				7,296,436.00
4	362 Station Equipment	11,547,908.00	73,082.00				11,620,990.00
5	363 Storage Battery Equipment	65,395.00	13,690.00				79,085.00
6	364 Poles, Towers and Fixtures	29,721,256.00	1,062,757.00	101,926.00			30,682,087.00
7	365 Overhead Conductors and Devices	20,713,889.00	1,989,192.00	142,071.00			22,561,010.00
8	366 Underground Conduits	8,687,282.00	243,455.00	994.00			8,929,743.00
9	367 Underground Conductors & Devices	10,366,120.00	1,326,172.00	31,152.00			11,661,140.00
10	368 Line Transformers	10,894,309.00	438,527.00	256,710.00			11,076,126.00
11	369 Services	5,897,530.00	62,632.00				5,960,162.00
12	370 Meters	5,093,709.00	170,272.00	55,964.00			5,208,017.00
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	3,559,554.00	193,892.00	50,017.00			3,703,429.00
16	Total Distribution Plant	<b>114,613,484.00</b>	<b>5,647,029.00</b>	<b>638,834.00</b>	<b>0.00</b>		<b>119,621,679.00</b>
17	<b>5. GENERAL PLANT</b>						
18	389 Land and Land Rights	397,372.00					397,372.00
19	390 Structures and Improvements	9,016,113.00	257,485.00				9,273,598.00
20	391 Office Furniture and Equipment	8,811,292.00	202,964.00	13,800.00			9,000,456.00
21	392 Transportation Equipment	4,569,075.00	60,500.00	32,500.00			4,597,075.00
22	393 Stores Equipment	135,854.00					135,854.00
23	394 Tools, Shop and Garage Equipment	533,071.00	28,953.00				562,024.00
24	395 Laboratory Equipment	501,854.00	21,182.00				523,036.00
25	396 Power Operated Equipment	0.00					0.00
26	397 Communication Equipment	2,876,551.00	205,934.00				3,082,485.00
27	398 Miscellaneous Equipment	186,338.00	34,551.00				220,889.00
28	399 Other Tangible Property	0.00					0.00
29	Total General Plant	<b>27,027,520.00</b>	<b>811,569.00</b>	<b>46,300.00</b>			<b>27,792,789.00</b>
30	Total Electric Plant in Service	<b>152,132,400.00</b>	<b>6,458,805.00</b>	<b>685,134.00</b>	<b>0.00</b>	<b>0.00</b>	<b>157,906,071.00</b>
31				<b>TOTAL COST OF PLANT.....</b>			
32				Less Cost of Land, Land Rights, and Rights of Way			<b>1,265,841.00</b>
33				Total Cost upon which depreciation is based			<b>156,640,230.00</b>

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	<b>UTILITY PLANT</b>			
2	101 Utility Plant -Electric.....	78,483,315.00	80,350,456.00	1,867,141.00
3	101 Utility Plant- Gas.....			
4	123 Investment in Associated Companies.....	289,474.00	802,212.00	512,738.00
5	<b>Total Utility Plant.....</b>	<b>78,772,789.00</b>	<b>81,152,668.00</b>	<b>2,379,879.00</b>
6				
7				
8				
9				
10				
11	<b>FUND ACCOUNTS</b>			
12	125 Sinking Funds.....			
13	126 Depreciation Fund (P. 14).....	7,614,554.00	8,334,981.00	720,427.00
14	128 Other Special Funds.....	8,877,818.00	8,836,804.00	(41,014.00)
15	<b>Total Funds.....</b>	<b>16,492,372.00</b>	<b>17,171,785.00</b>	<b>679,413.00</b>
16	<b>CURRENT AND ACCRUED ASSETS</b>			
17	131 Cash (P. 14).....	34,456,603.00	33,773,638.00	(682,965.00)
18	132 Special Deposits.....	1,197,751.00	1,308,651.00	110,900.00
19	132 Working Funds.....	3,500.00	3,500.00	0.00
20	141 Notes and Receivables.....			
21	142 Customer Accounts Receivable.....	8,840,668.00	7,237,460.00	(1,603,208.00)
22	143 Other Accounts Receivable.....	64,745.00	76,786.00	12,041.00
23	146 Receivables from Municipality.....			
24	151 Materials and Supplies (P. 14).....	1,486,470.00	1,822,376.00	335,906.00
25				
26	165 Prepayments.....	2,215,399.00	2,596,190.00	380,791.00
27	174 Miscellaneous Current Assets			
28	<b>Total Current and Accrued Assets...</b>	<b>48,265,136.00</b>	<b>46,818,601.00</b>	<b>(1,446,535.00)</b>
29	<b>DEFERRED DEBITS</b>			
30	181 Unamortized Debt Discount.....	0.00	0.00	0.00
31	182 Extraordinary Property Debits.....			
32	185 Other Deferred Debits.....	5,779,858.00	8,102,116.00	2,322,258.00
33	<b>Total Deferred Debits.....</b>	<b>5,779,858.00</b>	<b>8,102,116.00</b>	<b>2,322,258.00</b>
34				
35	<b>Total Assets and Other Debits.....</b>	<b>149,310,155.00</b>	<b>153,245,170.00</b>	<b>3,935,015.00</b>

**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	<b>APPROPRIATIONS</b>			
2	201 Appropriations for Construction.....			
3	<b>SURPLUS</b>			
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).....	88,039,673.00	92,020,362.00	3,980,689.00
8	<b>Total Surplus.....</b>	<b>103,561,977.00</b>	<b>107,542,666.00</b>	<b>3,980,689.00</b>
9	<b>LONG TERM DEBT</b>			
10	221 Bonds (P. 6).....	0.00	0.00	0.00
11	231 Notes Payable (P. 7).....			
12	<b>Total Bonds and Notes.....</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
13	<b>CURRENT AND ACCRUED LIABILITIES</b>			
14	232 Accounts Payable.....	9,718,305.00	6,400,929.00	(3,317,376.00)
15	234 Payables to Municipality.....			
16	235 Customer Deposits.....	1,197,752.00	1,308,651.00	110,899.00
17	236 Taxes Accrued.....			
18	237 Interest Accrued.....	18,246,700.00	21,804,232.00	3,557,532.00
19	242 Miscellaneous Current and Accrued Liabilities	3,389,312.00	2,905,895.00	(483,417.00)
20	<b>Total Current and Accrued Liabilities...</b>	<b>32,552,069.00</b>	<b>32,419,707.00</b>	<b>(132,362.00)</b>
21	<b>DEFERRED CREDITS</b>			
22	251 Unamortized Premium on Debt.....			
23	252 Customer Advance for Construction.....	2,062,728.00	1,952,242.00	(110,486.00)
24	253 Other Deferred Credits.....	2,105,560.00	1,964,276.00	
25	<b>Total Deferred Credits</b>	<b>4,168,288.00</b>	<b>3,916,518.00</b>	<b>(251,770.00)</b>
26	<b>RESERVES</b>			
27	260 Reserves for Uncollectable Accounts.....	200,000.00	200,000.00	0.00
28	261 Property Insurance Reserve.....			
29	262 Injuries and Damages Reserves.....			
30	263 Pensions and Benefits.....			
31	265 Miscellaneous Operating Reserves.....			
32	<b>Total Reserves.....</b>	<b>200,000.00</b>	<b>200,000.00</b>	<b>0.00</b>
33	<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>			
34	271 Contributions in Aid of Construction.....	8,827,821.00	9,166,279.00	338,458.00
35	<b>Total Liabilities and Other Credits</b>	<b>149,310,155.00</b>	<b>153,245,170.00</b>	<b>3,935,015.00</b>

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

## STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Current Year	Increase or (Decrease) from Preceding Year
1	<b>OPERATING INCOME</b>		
2	400 Operating Revenue (P. 37) .....	88,311,978	(11,286,484)
3	<b>Operating Expenses:</b>		
4	401 Operation Expense (P. 42).....	74,622,497	(7,027,004)
5	402 Maintenance Expense (P. 42).....	3,006,707	(154,435)
6	403 Depreciation Expense .....	4,525,997	141,026
7	407 Amortization of Property Losses.....		
9	408 Taxes (P. 49).....	1,569,667	65,599
10	<b>Total Operating Expenses.....</b>	<b>83,724,868</b>	<b>(6,974,814)</b>
11	Operating Income.....		
12	414 Other Utility Operating Income (P. 50).....		
13			
14	<b>Total Operating Income.....</b>	<b>4,587,110</b>	<b>(4,311,670)</b>
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)....	827,799	(236,071)
17	419 Interest Income.....	969,188	627,676
18	421 Miscellaneous Income.....		
19	<b>Total Other Income.....</b>	<b>1,796,987</b>	<b>391,605</b>
20	<b>Total Income.....</b>	<b>6,384,097</b>	<b>(3,920,065)</b>
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Change in Accounting Principle.....		
23	426 Other Income Deductions.....		
24	<b>Total Income Deductions.....</b>	-	-
25	<b>Income before Interest Charges.....</b>	<b>6,384,097</b>	<b>(3,920,065)</b>
26	<b>INTEREST CHARGES</b>		
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.....	29,596	14,748
31	432 Interest Charged to Construction-Credit.....		
32	<b>Total Interest Charges</b>	<b>29,596</b>	<b>14,748</b>
33	<b>Net Income.....</b>	<b>6,354,501</b>	<b>(3,934,813)</b>
	<b>EARNED SURPLUS</b>		
Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of period).....		88,039,673
35	restated - Implementation of GASB 75		
36			
37	433 Balance Transferred from Income.....		6,354,501
38	434 Miscellaneous Credits to Surplus (P. 21).....		173,550
39	435 Miscellaneous Debits to Surplus (P. 21).....	81,563	
40	436 Appropriations of Surplus (P. 21).....	2,480,506	
41	437 Surplus Applied to Depreciation.....		14,707
42	208 Unappropriated Earned Surplus (at end of period).....	92,020,362	
43			
44	<b>TOTALS</b>	<b>94,582,431</b>	<b>94,582,431</b>

Annual Report of the Town of Reading Municipal Light Department		Year ended December 31, 2019	
<b>CASH BALANCES AT END OF YEAR (Account 131)</b>			
Line No.	Items (a)	Amount (b)	
1	Operation Fund.....	33,773,638.00	
2	Interest Fund.....		
3	Bond Fund.....		
4	Construction Fund.....		
5			
6			
7			
8			
9			
10			
11			
12	<b>TOTAL</b>	<b>33,773,638.00</b>	
<b>MATERIALS AND SUPPLIES (Account 151-159, 163 ) Summary per Balance Sheet</b>			
Line No.	Account (a)	Amount End of Year	
		Electric (b)	Gas (c)
13	Fuel (Account 151) (See Schedule, Page 25).....		
14	Fuel Stock Expenses (Account 152).....		
15	Residuals (Account 153).....		
16	Plant Materials and Operating Supplies (Account 154).....	1,822,376.00	
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	<b>Total per Balance Sheet</b>	<b>1,822,376.00</b>	
<b>Depreciation Fund Account (Account 126)</b>			
Line No.	(a)	Amount (b)	
24	<b>DEBITS</b>		
25	Balance of Account at Beginning of Year.....	7,614,554.00	
26	Income During Year from Balance on Deposit.....	153,236.00	
27	Amount Transferred from Income.....	7,025,997.00	
28	<b>TOTAL</b>	<b>14,793,787.00</b>	
29			
30	<b>CREDITS</b>		
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.).....	6,458,806.00	
32	Amounts Expended for Renewals.....		
33	Adjustment.....		
34			
35			
36			
37			
38			
39	Balance on Hand at End of Year.....		
40	<b>TOTAL</b>	<b>8,334,981.00</b>	



**UTILITY PLANT - ELECTRIC (continued)**

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	<b>c. Hydraulic Production Plant</b>						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators.....						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads and Bridges...						
9	<b>Total Hydraulic Production Plant</b>						
10	<b>D. Other Production Plant</b>						
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.....	2,383,303.00	-	74,380.00			2,308,923.00
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	<b>Total Other Production Plant</b>	2,383,303.00	-	74,380.00	-	-	2,308,923.00
19	<b>Total Production Plant</b>	2,383,303.00	-	74,380.00	-	-	2,308,923.00
20	<b>3. TRANSMISSION PLANT</b>						
21	350 Land and Land Rights.....	25,016.00	-	-			25,016.00
22	351 Clearing Land and Rights of Way..	0.00	-	-			0.00
23	352 Structures and Improvements.....	609,531.00	-	28,378.00			581,153.00
24	353 Station Equipment.....	3,499,863.00	-	136,769.00			3,363,094.00
25	354 Towers and Fixtures.....	0.00	-	-			0.00
26	355 Poles and Fixtures.....	185,372.00	-	9,008.00			176,364.00
27	356 Overhead Conductors and Device..	157,640.00	-	6,889.00			150,751.00
28	357 Underground Conduits.....	1,891.00	207.00	619.00			1,479.00
29	358 Underground Conductors and Dev..	23,261.00	-	771.00			22,490.00
30	359 Roads and Trails.....	0.00	-	-			0.00
31	<b>Total Transmission Plant</b>	<b>4,502,574.00</b>	<b>207.00</b>	<b>182,434.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4,320,347.00</b>

## UTILITY PLANT - ELECTRIC (continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	<b>4. DISTRIBUTION PLANT</b>						
2	360 Land and Land Rights.....	843,454.00	-	-			843,454.00
3	361 Structures and Improvements.....	4,281,352.00	73,358.00	216,693.00			4,138,017.00
4	362 Station Equipment.....	5,388,961.00	73,082.00	222,303.00			5,239,740.00
5	363 Storage Battery Equipment.....	35,206.00	13,690.00	1,962.00			46,934.00
6	364 Poles and Fixtures.....	18,172,708.00	1,062,757.00	952,753.00			18,282,712.00
7	365 Overhead Conductors and Devices.....	15,397,167.00	1,989,192.00	658,343.00			16,728,016.00
8	366 Underground Conduits.....	3,162,471.00	243,455.00	273,011.00			3,132,915.00
9	367 Underground Conductors and Devices.....	5,441,855.00	1,326,172.00	333,917.00			6,434,110.00
10	368 Line Transformers.....	5,282,722.00	438,527.00	355,125.00		(28,615.00)	5,337,509.00
11	369 Services.....	1,460,262.00	62,632.00	188,123.00			1,334,771.00
12	370 Meters.....	3,184,514.00	170,272.00	166,639.00		(37,052.00)	3,151,095.00
13	371 Installation on Cust's Premises....		-	-			
14	372 Leased Prop. on Cust's Premises.		-	-			
15	373 Street Light and Signal Systems.....	2,569,919.00	193,892.00	114,030.00			2,649,781.00
16	<b>Total Distribution Plant</b>	<b>65,220,591.00</b>	<b>5,647,029.00</b>	<b>3,482,899.00</b>	<b>-</b>	<b>(65,667.00)</b>	<b>67,319,054.00</b>
17	<b>5. GENERAL PLANT</b>						
18	389 Land and Land Rights.....	397,372.00	-	-			397,372.00
19	390 Structures and Improvements.....	2,795,695.00	257,485.00	230,459.00			2,822,721.00
20	391 Office Furniture and Equipment.....	1,424,801.00	202,964.00	248,120.00			1,379,645.00
21	392 Transportation Equipment.....	624,500.00	60,500.00	220,558.00			464,442.00
22	393 Stores Equipment.....	31,815.00	-	3,028.00			28,787.00
23	394 Tools, Shop and Garage Equipment.	23,595.00	28,953.00	2,729.00			49,819.00
24	395 Laboratory Equipment.....	120,395.00	21,182.00	10,760.00			130,817.00
25	396 Power Operated Equipment.....		-	-			
26	397 Communication Equipment.....	921,601.00	205,934.00	63,302.00			1,064,233.00
27	398 Miscellaneous Equipment.....	37,073.00	34,551.00	7,328.00			64,296.00
28	399 Other Tangible Property.....						
29	<b>Total General Plant</b>	<b>6,376,847.00</b>	<b>811,569.00</b>	<b>786,284.00</b>	<b>-</b>	<b>-</b>	<b>6,402,132.00</b>
30	<b>Total Electric Plant in Service</b>	<b>78,483,315.00</b>	<b>6,458,805.00</b>	<b>4,525,997.00</b>	<b>-</b>	<b>(65,667.00)</b>	<b>80,350,456.00</b>
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	<b>Total Utility Electric Plant</b>	<b>78,483,315.00</b>	<b>6,458,805.00</b>	<b>4,525,997.00</b>	<b>0.00</b>	<b>(65,667.00)</b>	<b>80,350,456.00</b>

**PRODUCTION FUEL AND OIL STOCKS (Included in Account 151)  
(Except Nuclear Materials)**

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

Line No.	Item (a)	Total Cost (b)	Kinds of Fuel and Oil			
			Quantity (c)	Cost (d)	Quantity (e)	Cost (f)
1	On Hand Beginning of year					
2	Received During Year					
3	<b>TOTAL</b>					
4	Used During Year (Note A)					
5						
6						
7						
8						
9						
10						
11	Sold or Transferred					
12	<b>TOTAL DISPOSED OF</b>					
13	<b>BALANCE END OF YEAR</b>					

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					

<b>MISCELLANEOUS NON-OPERATING INCOME (Account 421)</b>		
Line No.	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6	TOTAL	
<b>OTHER INCOME DEDUCTIONS (Account 426)</b>		
Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14	TOTAL	
<b>MISCELLANEOUS CREDITS TO SURPLUS (Account 434)</b>		
Line No.	Item (a)	Amount (b)
15		
16	Various Refunds (incl MMWEC Flush)	173,550.00
17		
18		
19		
20		
21		
22		
23	TOTAL	173,550.00
<b>MISCELLANEOUS DEBITS TO SURPLUS (Account 435)</b>		
Line No.	Item (a)	Amount (b)
24		
25		
26	Loss on Disposal of Electric Plant Utility	81,563.00
27		
28		
29		
30		
31		
32	TOTAL	81,563.00
<b>APPROPRIATIONS OF SURPLUS (Account 436)</b>		
Line No.	Item (a)	Amount (b)
33		
34	Transfer to Town of Reading	2,480,506.00
35		
36		
37		
38		
39		
40	TOTAL	2,480,506.00

**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		<b>TOTALS</b>			
Line No.		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue per K.W.H. [cents] [\$0.0000] (d)
5					
6					
7					
8					
9	444	Municipal: (Other than Street Lighting)	23,697,620	1,872,628	0.0790
10					
11					
12					
13		Municipal Street Lighting	1,015,349	173,137	0.1705
14					
15					
16					
17					
18					
19		<b>TOTALS</b>	<b>24,712,969</b>	<b>2,045,764.98</b>	<b>0.0828</b>

**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		145,627,614	6,754,827	0.0464
21	ENE Consulting Fees		-	168,228	
22	Nextera		367,667,464	17,233,828	0.0000
23	HQ Phase 2 Companies		-	(533,148)	0.0000
24	ISO-NE/REMOVED		(4,926,659)	28,763,634	(5.8384)
25	Battery Storage		-	380,782	
27	Solar/Wind		27,715,826	2,033,703	0.0000
28	Middleton/Nat Grid		172,150	25,015	0.1453
29	Braintree Watson		1,238,713	758,348	0.1453
30	Hydro Projects		56,881,951	3,562,102	0.6122
31	Exelon		76,694,100	2,997,972	
32	Deferred Fuel		-	(1,118,107)	
32		<b>TOTALS</b>	<b>671,071,159</b>	<b>61,027,184</b>	<b>0.0909</b>

**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	2,896,000	400,529	0.1383
33	Town of Wakefield	Customer Premises	1,029,177	77,383	0.0752
34	Town of Middleton	Customer Premises	6,681	969	0.1450
35					
36					
37					
38					
39					
40					
41		<b>TOTALS</b>	<b>3,931,858</b>	<b>478,881</b>	<b>0.1218</b>



**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-19 (e)	Dec-19 (f)	
1	Residential - A		240,535,932	23,954,623.41	0.0996	27,074	27,293	
2	Industrial - C		377,356,610	26,440,817.00	0.0701	3,795	3,796	
3	Municipal - C		23,697,620	1,872,627.98	0.0790	277	277	
4	Street Lighting		1,015,349	173,137.00	0.1705	14	15	
5	Private Street Lighting		677,285	146,852.00	0.2168	240	239	
6								
7	Provision for Purchased Power Adjustments			33,797,614.00				
8								
9								
10								
11								
12								
13								
14								
15								
16								
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18								
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40								
41								
42								
43								
44								
45								
46								
47								
48	TOTAL SALES TO ULTIMATE							
49	CONSUMERS (Page 37 Line 11)			643,282,796	86,385,671.39	0.1343	31,400	31,620

**ELECTRIC OPERATION AND MAINTENANCE EXPENSES**

1. Enter in the space provided the operation and maintenance expenses for the year.  
 2. If the increases and decreases are not divided from previously reported figures explain in footnote.

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>POWER PRODUCTION EXPENSE</b>		
2	<b>STEAM POWER GENERATION</b>		
3	<b>Operation:</b>		
4	500 Operation Supervision and Engineering.....		
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	<b>Total Operation</b>	<b>0.00</b>	<b>0.00</b>
13	<b>Maintenance:</b>		
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	<b>Total Maintenance</b>	<b>0.00</b>	<b>0.00</b>
20	<b>Total Power Production Expenses -- Steam Power</b>	<b>0.00</b>	<b>0.00</b>
21	<b>NUCLEAR POWER GENERATION</b>		
22	<b>Operation:</b>		
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	<b>Total Operation</b>	<b>0.00</b>	<b>0.00</b>
33	<b>Maintenance:</b>		
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	<b>Total Maintenance</b>	<b>0.00</b>	<b>0.00</b>
40	<b>Total Power Production Expenses -- Nuclear Power</b>	<b>0.00</b>	<b>0.00</b>
41	<b>HYDRAULIC POWER GENERATION</b>		
42	<b>Operation:</b>		
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	<b>Total Operation</b>	<b>0.00</b>	<b>0.00</b>

(continued on page 40)

## ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>HYDRAULIC POWER GENERATION - CONTINUED</b>		
2	<b>Maintenance:</b>		
3	541 Maintenance Supervision and Engineering.....		
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	<b>Total Maintenance</b>	-	-
9	<b>Total Power Production Expenses - Hydraulic Power</b>	-	-
10	<b>OTHER POWER GENERATION</b>		
11	<b>Operation:</b>		
12	546 Operation Supervision and Engineering.....		
13	547 Fuel.....	27,184,228	(3,855,616)
14	548 Operation Expenses.....		
15	549 Miscellaneous Other Power Generation Expenses.....		
16	550 Rents.....		
17	<b>Total Operation</b>	<b>27,184,228</b>	<b>(3,855,616)</b>
18	<b>Maintenance:</b>		
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	<b>Total Maintenance</b>	-	-
24	<b>Total Power Production Expenses - Other Power</b>	-	-
25	<b>OTHER POWER SUPPLY EXPENSES</b>		
26	555 Purchased Power.....	21,079,872	(3,396,720)
27	556 System Control and Load Dispatching.....		
28	557 Other Expenses.....	-	-
29	<b>Total Other Power Supply Expenses</b>	<b>21,079,872</b>	<b>(3,396,720)</b>
30	<b>Total Power Production Expenses</b>	<b>48,264,100</b>	<b>(7,252,336)</b>
31	<b>TRANSMISSION EXPENSES</b>		
32	<b>Operation:</b>		
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.....	12,763,084	(1,124,275)
39	566 Miscellaneous Transmission Expenses.....		
40	567 Rents.....		
41	<b>Total Operation</b>	<b>12,763,084</b>	<b>(1,124,275)</b>
42	<b>Maintenance:</b>		
43	568 Maintenance Supervision and Engineering.....	-	-
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	<b>Total Maintenance</b>	-	-
50	<b>Total Transmission Expenses</b>	<b>12,763,084</b>	<b>(1,124,275)</b>

**ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED**

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>DISTRIBUTION EXPENSES</b>		
2	<b>Operation:</b>		
3	580 Operation Supervision and Engineering.....	942,608	168,320
4	581 Load Dispatching.....	570,476	(131,049)
5	582 Station Expenses.....	383,332	(432,794)
6	583 Overhead Line Expenses.....	374,311	228,593
7	584 Underground Line Expenses.....		
8	585 Street Lighting and Signal System Expenses.....	60,108	(226,301)
9	586 Meter Expenses.....	131,210	(31,537)
10	587 Customer Installations Expenses.....		
11	588 Miscellaneous Distribution Expenses.....	464,445	(46,303)
12	589 Rents.....		
13	<b>Total Operation</b>	<b>2,926,490</b>	<b>(471,071)</b>
14	<b>Maintenance:</b>		
15	590 Maintenance Supervision and Engineering.....		-
16	591 Maintenance of Structures.....		
17	592 Maintenance of Station Equipment.....		
18	593 Maintenance of Overhead Lines.....	991,444	(674,038)
19	594 Maintenance of Underground Lines.....	85,518	39,470
20	595 Maintenance of Line Transformers.....	167,830	26,343
21	596 Maintenance of Street Lighting and Signal Systems.....		
22	597 Maintenance of Meters.....		
23	598 Maintenance of Miscellaneous Distribution Plant.....	457,091	212,304
24	<b>Total Maintenance</b>	<b>1,701,883</b>	<b>(395,921)</b>
25	<b>Total Distribution Expenses</b>	<b>4,628,373</b>	<b>(866,992)</b>
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	<b>Operation:</b>		
28	901 Supervision.....		
29	902 Meter Reading Expenses.....	2,834	(15,633)
30	903 Customer Records and Collection Expenses.....	1,246,708	(475,367)
31	904 Uncollectable Accounts.....	58,066	16,203
32	905 Miscellaneous Customer Accounts Expenses.....		
33	<b>Total Customer Accounts Expenses</b>	<b>1,307,608</b>	<b>(474,797)</b>
34	<b>SALES EXPENSES</b>		
35	<b>Operation:</b>		
36	911 Supervision.....		
37	912 Demonstrating and Selling Expenses.....		
38	913 Advertising Expenses.....		
39	916 Miscellaneous Sales Expense.....	1,239,985	(163,336)
40	<b>Total Sales Expenses</b>	<b>1,239,985</b>	<b>(163,336)</b>
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	<b>Operation:</b>		
43	920 Administrative and General Expenses.....	1,934,812	545,709
44	921 Office Supplies and Expenses.....	14,991	5,663
45	922 Administrative Expenses Transferred - Cr.....		
46	923 Outside Services Employed.....	755,567	(367,012)
47	924 Property Insurance.....	348,688	8,627
48	925 Injuries and Damages.....	78,632	2,292
49	926 Employees Pensions and Benefits.....	4,643,364	2,251,609
50	928 Regulatory Commission Expenses.....		
51	929 Duplicate Charges - Cr.....		
52	930 Miscellaneous General Expenses.....	149,665	7,164
53	931 Rents.....	195,511	4,759
54	<b>Total Operation</b>	<b>8,121,230</b>	<b>2,458,811</b>

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

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>ADMINISTRATIVE EXPENSES</b>		
2	<b>Maintenance:</b>		
3	932 Maintenance of General Plant.....	1,304,824	241,486
4	<b>Total Maintenance</b>	<b>1,304,824</b>	<b>241,486</b>
5	<b>Total Administrative and General Expenses</b>	<b>9,426,054</b>	<b>2,700,297</b>

**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.....	27,184,228		27,184,228
12	Other Power Supply Expenses.....	21,079,872		21,079,872
13	<b>Total Power Production Expenses</b>	<b>48,264,100</b>		<b>48,264,100</b>
14	Transmission Expenses.....	12,763,084	-	12,763,084
15	Distribution Expenses.....	2,926,490	1,701,883	4,628,373
16	Customer Accounts Expenses.....	1,307,608		1,307,608
17	Sales Expenses.....	1,239,985		1,239,985
18	Administrative and General Expenses.....	8,121,230	1,304,824	9,426,054
19				
20	<b>Total Electric Operation and Maintenance Expenses</b>	<b>74,622,497</b>	<b>3,006,707</b>	<b>77,629,204</b>

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).....	93.03%
22	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts..... \$	9,056,470
23	Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees).....	74

**TAXES CHARGED DURING YEAR**

1. This schedule is intended to give the account distribution of total taxes charged to operations and other final accounts during the year.  
 2. Do not include gasoline and other sales taxes which have been charged to accounts to which the material on which the tax was levied was charged. If the actual or estimated amounts of such taxes are known, they should be shown as a footnote and designated whether estimated or actual amounts.

3. The aggregate of each kind of tax should be listed under the appropriate heading of "Federal," "State," and "Local" in such manner that the total tax for each State and for all subdivisions can readily be ascertained.  
 4. The accounts to which the taxes charged were distributed should be shown in columns (c) to (h). Show both the utility department and number of account charged. For taxes charged to utility plant show the number of appropriate balance sheet plant account or subaccount.

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	1,569,667.00	1,569,667.00							
5										
6										
7										
8										
9										
10										
11										
12										
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21										
22										
23										
24										
25										
26										
27										
28	<b>TOTAL</b>	1,569,667.00	1,569,667.00							

**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					
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45					
46					
47					
48					
49					
50					
51	<b>TOTALS</b>				

**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.....	745,019.10			745,019.10
4	Contract Work - Street Lights.....				
5	Commissions.....				
6	Other (List according to major classes)				
7					
8					
9					
10	Total Revenues.....	<b>745,019.10</b>			<b>745,019.10</b>
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to major				
15	classes of cost).....	82,779.90			82,779.90
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	<b>TOTAL COSTS AND EXPENSES</b>	<b>82,779.90</b>			<b>82,779.90</b>
51	<b>Net Profit (or Loss)</b>	<b>827,799.00</b>			<b>827,799.00</b>



**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)		
								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								13
								14
								15
								16
			None					17
								18
								19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30
								31
								32
								33
								34
								35
								36
								37
								38
								39
								40
								41
<b>TOTALS</b>								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 statistical classification in column (b), thus: firm power, FP; dump or surplus power DP; other, O, and place an "X" in column (c) if purchase involves import across a state line.

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

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
						(f)	(g)	(h)
1	PEAKING PROJECT	O		Town Line		24,980	KW	
2	INTERMEDIATE PROJECT	O		Town Line		42,925	KW	
3	NUC. MIX ONE - SEABROOK	O	X	Town Line		293	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		6,798	KW	
7	NUCLEAR PROJECT FIVE	O	X	Town Line		823	KW	
8	NYPA	O	X	Town Line				
9	BRAINTREE WATSON UNIT	FP		Town Line				
10	ENE CONSULTING FEES	FP	X	Town Line				
11	NEXTERA	O	X	Town Line				
12	MINUTEMAN ENERGY STORAGE	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		Town Line		154,639	KW	
18	ISO -NE/ LNS	O		Town Line				
19	ISO -NE OTHER	O		Town Line				
20	ALTUS	O		Town Line				
21	KEARSARGE	FP		Town Line				
22		O		Town Line				
23		O		Town Line				
24	COLLINS HYDRO	O		Town Line				
25	HYDRO PROJECTS	O	X	Town Line				
26		O		Town Line				
27				Town Line				
28	SADDLEBACK WIND			Town Line				
29	JERICO WIND		X	Town Line				
30	ONE BURLINGTON SOLAR			Town Line				
31	COOP RESALE (NGRID/MELD)			Town Line				
32	DEFERRED FUEL							
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
	<b>TOTALS</b>					<b>235,408</b>		

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

(except interchange power)

4. If receipt of power is at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; seller owned or leased, SS. should be furnished whether or not used in the determination of demand charges. Show in column (l) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).
5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billing, this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in column (g) and (h) should be actual based on monthly readings and
6. The number of kilowatt hours purchased should be the quantities shown by the power bills.
7. Explain any amount entered in column (n) such as fuel or other adjustments.

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Cost of Energy (Omit Cents)				Cents per KWH (cents) [0.0000] (p)	Line No.
			Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
60 Minute	115,000	296,804	569,159	54,936	35,429	659,523	2.2221	1
60 Minute	115,000	6,468,163	1,792,590	183,459	57,727	2,033,776	0.3144	2
60 Minute	115,000	3,289,782	66,455	13,776	157	80,388	0.0244	3
60 Minute	115,000	22,402,375	701,128	140,728	21,213	863,069	0.0385	4
60 Minute	115,000	15,966,585	504,756	100,299	15,119	620,174	0.0388	5
60 Minute	115,000	59,334,632	1,518,816	312,830	3,557	1,835,203	0.0309	6
60 Minute	115,000	7,318,645	190,377	38,586	439	229,402	0.0313	7
60 Minute	115,000	30,550,628	(90,951)	151,930	372,314	433,292	0.0142	8
60 Minute	115,000	1,238,713	586,727	171,621	0	758,348	0.6122	9
60 Minute	115,000	0	0	0	168,228	168,228	0.0000	10
60 Minute	115,000	367,667,464	0	17,233,828	0	17,233,828	0.0469	11
60 Minute	115,000	0	178,469	0	202,313	380,782	0.0000	12
60 Minute	115,000	76,694,100	0	2,997,972	0	2,997,972	0.0391	13
60 Minute	115,000	0	8,207	0	0	8,207	0.0000	14
60 Minute	115,000	0	27,310	0	0	27,310	0.0000	15
60 Minute	115,000	0	(568,664)	0	0	(568,664)	0.0000	16
60 Minute	115,000	0	0	0	0	0	0.0000	17
60 Minute	115,000	(4,926,659)	15,595,494	1,463,041	11,886,590	28,945,125	-5.8752	18
60 Minute	115,000	0	0	(181,491)	0	(181,491)	0.0000	19
60 Minute	115,000	1,549,229	0	115,090	0	115,090	0.0743	20
60 Minute	115,000	2,314,378	0	173,578	0	173,578	0.0750	21
60 Minute	115,000	0	0	0	0	0	0.0000	22
60 Minute	115,000	0	0	0	0	0	0.0000	23
60 Minute	115,000	0	0	0	0	0	0.0000	24
60 Minute	115,000	56,881,951	0	3,124,985	0	3,124,985	0.0549	25
60 Minute	115,000	0	0	437,118	0	437,118	0.0000	26
60 Minute	115,000	0	0	0	0	0	0.0000	27
60 Minute	115,000	15,173,378	0	1,082,378	0	1,082,378	0.0713	28
60 Minute	115,000	5,976,429	0	464,472	0	464,472	0.0777	29
60 Minute	115,000	2,702,412	0	198,184	0	198,184	0.0733	30
60 Minute	115,000	172,150	0	25,015	0	25,015	0.1453	31
60 Minute	115,000	0	0	(1,118,107)	0	(1,118,107)	0.0000	32
								33
								34
								35
								36
								37
								38
								39
								40
								41
<b>TOTALS</b>		<b>671,071,159</b>	<b>21,079,872</b>	<b>27,184,228</b>	<b>12,763,085</b>	<b>61,027,184</b>	<b>0.0909</b>	<b>42</b>

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

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

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

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

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

Line No.	Name of Company	Interchange Across State Lines	Point of Interchange	Voltage at Which Interchanged	Kilowatt-hours			Amount of Settlement
					Received	Delivered	Net Difference	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	ISO-NE	NO	NEPEX	115,000	-4,926,659		-4,926,659	-199,530
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12				<b>TOTALS</b>	<b>-4,926,659</b>	<b>0</b>	<b>-4,926,659</b>	<b>-199,530</b>

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

Line No.	Name of Company (i)	Explanation (j)		Amount (k)
13	NEPEX	Kwh Received	Adjusted Net Interchange	0
14				
15				
16				
17				
18		Kwh Delivered	Adjusted Net Interchange	(4,926,659)
19				
20				
21				<b>TOTALS</b>
				<b>-4,926,659</b>

**ELECTRIC ENERGY ACCOUNT**

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

Line No.	Item (a)	Kilowatt-hours (b)
<b>SOURCES OF ENERGY</b>		
1	Generation (excluding station use):	
3	Steam.....	
4	Nuclear.....	
5	Hydro.....	
6	Other.....	
7	Total generation.....	
8	Purchases.....	675,997,818
9	{ In (gross) .....	0
10	Interchanges.....{ Out (gross) .....	(4,926,659)
11	{ Net (Kwh).....	(4,926,659)
12	{ Received.....	
13	Transmission for/by others (Wheeling.....{ Delivered.....	
14	{ Net (kwh).....	
15	<b>TOTAL</b> .....	<b>671,071,159</b>
<b>DISPOSITION OF ENERGY</b>		
17	Sales to ultimate consumers (including interdepartmental sales).....	643,282,796
18	Sales for resale.....	3,931,858
19	Energy furnished without charge .....	
20	Energy used by the company (excluding station use).....	
21	Electric department only.....	617,700
22	Energy losses:	
23	Transmission and conversion losses.....	11,919,998
24	Distribution losses.....	
25	Unaccounted for losses.....	0
26	Total energy losses.....	11,919,998
27	Energy losses as percent of total on line 15..... 1.78%	
28	Losses within RMLD system..... 0.00%	
	<b>TOTAL</b>	<b>659,752,352</b>

**MONTHLY PEAKS AND OUTPUT**

- Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-hours) for the combined sources of electric energy of respondent.
- Monthly peak col. (b) should be respondent's maximum Kw load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange minus temporary deliveries (not interchange) or emergency power to another system. Monthly peak including such emergency deliveries should be shown in a footnote with a brief explanation as to the nature of the emergency.
- State type of monthly peak reading (instantaneous 15, 30, or 60 minute integrated.)
- Monthly output should be the sum of respondent's net generation and purchases plus or minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with line 15 above.
- If the respondent has two or more power systems and physically connected, the information called for below should be furnished for each system.

System

**Monthly Peak**

Line No.	Month (a)	Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	Monthly Output (kwh) See Instr. 4) (g)
29	January	106,853	Monday	21	1800	Integrated	57,949,291
30	February	98,814	Tuesday	12	1800	Integrated	50,903,461
31	March	92,760	Monday	4	1800	Integrated	53,515,994
32	April	84,264	Tuesday	9	1800	Integrated	48,386,884
33	May	97,262	Monday	20	1600	Integrated	50,501,140
34	June	121,162	Friday	28	1500	Integrated	52,233,974
35	July	155,117	Tuesday	30	1400	Integrated	71,651,559
36	August	149,208	Monday	19	1500	Integrated	65,033,995
37	September	121,618	Monday	23	1600	Integrated	52,480,253
38	October	93,331	Wednesday	2	1200	Integrated	50,161,288
39	November	91,723	Wednesday	13	1700	Integrated	51,338,022
40	December	100,934	Thursday	19	1700	Integrated	55,596,491
41						<b>TOTAL</b>	<b>659,752,352</b>

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

- |   |  |
|---|--|
| <p>1. Large stations for the purpose of this schedule are steam and hydro stations of 2,500 Hw* or more of installed capacity and other stations of 500 Kw* or more of installed capacity (name plate ratings). (*10,000 Kw and 2,500 Kw, respectively, if annual electric operating revenues of respondent are \$25,000,000 or more.)</p> <p>2. If any plant is leased, operated under a license from the Federal Power Commission, or operated as a joint facility, indicate such facts by the use of asterisks and footnotes.</p> <p>3. Specify if total plant capacity is reported in kva instead of kilowatts as called for on line 5.</p> | <p>4. If peak demand for 60 minutes is not available, give that which is available, specifying period.</p> <p>5. If a group of employees attends more than one generating station, report on line 11 the approximate average number of employees assignable to each station.</p> <p>6. If gas is used and purchased on a therm basis, the B.t.u. content of the gas should be given and the quantity of fuel consumed converted to M cu. ft.</p> <p>7. Quantities of fuel consumed and the average cost per unit of fuel consumed should be consistent with charges to expense 501 and</p> |
|---|--|

Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)
1	Kind of plant (steam, hydro, int. com., gas turbine			
2	Type of plant construction (conventional, outdoor boiler, full outdoor, etc.)			
3	Year originally constructed			
4	Year last unit was installed			
5	Total installed capacity (maximum generator name plate ratings in kw)			
6	Net peak demand on plant-kilowatts (60 min.)			
7	Plant hours connected to load			
8	Net continuous plant capability, kilowatts:			
9	(a) When not limited by condenser water			
10	(b) When limited by condenser water			
11	Average number of employees			
12	Net generation, exclusive of station use			
13	Cost of plant (omit cents):			
14	Land and land rights			
15	Structures and improvements			
16	Reservoirs, dams, and waterways			
17	Equipment costs			
18	Roads, railroads, and bridges			
19	<b>Total cost</b>			
20	<b>Cost per kw of installed capacity</b>			
21	Production expenses:			
22	Operation supervision and engineering			
23	Station labor			
24	Fuel			
25	Supplies and expenses, including water			
26	Maintenance			
27	Rents			
28	Steam from other sources			
29	Steam transferred -- Credit			
30	<b>Total production expenses</b>			
31	<b>Expenses per net Kwh (5 places)</b>			
32	Fuel: Kind			
33	Unit: (Coal-tons of 2,000 lb.) (Oil-barrels of 42 gals.) (Gas-M cu. ft.) (Nuclear, indicate)			
34	Quantity (units) of fuel consumed			
35	Average heat content of fuel (B.t.u. per lb. of coal, per gal. of oil, or per cu. ft. of gas)			
36	Average cost of fuel per unit, del. f.o.b. plant			
37	Average cost of fuel per unit consumed			
38	Average cost of fuel consumed per million B.t.u.			
39	Average cost of fuel consumed per kwh net gen.			
40	Average B.t.u. per kwh net generation			
41				
42				

**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.

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

547 as shown on Line 24

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

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

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

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

Plant (e)	Plant (f)	Plant (g)	Plant (h)	Plant (i)	Plant (j)	Line No.
						1
						2
						3
						4
						5
						6
						7
						8
						9
						10
						11
						12
						13
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						24
						25
						26
						27
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						31
						32
						33
						34
						35
						36
						37
						38
						40
						41
						42

**STEAM GENERATING STATIONS -- Continued**

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.

**Turbine-Generators\***

Year Installed (h)	Type (l)	Steam Pressure at Throttle p.s.i.g. (j)	R.P.M. (k)	Name Plate Rating in Kilowatts		Hydrogen Pressure**		Power Factor (p)	Voltage K.v.++ (q)	Station Capacity Maximum Name Plate Rating** (r)	Line No.
				At Minimum Hydrogen Pressure (l)	At Maximum Hydrogen Pressure (m)	Min. (n)	Max. (o)				
											1
											2
											3
											4
											5
											6
											7
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											32
											33
											34
											35
											36
<b>TOTALS</b>											37

Note references:

- \*Report cross-compound turbine-generator units on two lines -- H.P. section and L.P. section.
- + Indicate tandem-compound (T.C.); cross-compound (C.C.); all single casing (S.C.); topping unit ( T ), and noncondensing (N.C.). Show back pressures.
- \*\* Designate air cooled generators.
- ++ If other than 3 phase, 60 cycle, indicate other characteristics.
- \*+ 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 thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as

Line No.	Name of Station (a)	Location (b)	Name of Stream (c)	Water Wheels			
				Attended or Unattended (d)	Type of Unit* (e)	Year Installed (f)	Gross Static Head with Pond Full (g)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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28							
29							
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31							
32							
33							
34							
35							
36							
37							

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

**HYDROELECTRIC GENERATING STATIONS -- Continued**

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

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

Specify whether lessee is an associated company.

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

Water Wheels -- Continued			Generators						Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
Design Head (h)	R.P.M. (l)	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	
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									36	
									37	
									38	
<b>TOTALS</b>									39	

**COMBUSTION ENGINE AND OTHER GENERATING STATIONS**  
(except nuclear stations)

1. Report the information called for concerning generating stations and equipment at end of year. Show associated prime movers and generators on the same line.  
 2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.  
 3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating station, other than a leased station, or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent owner-

Line No.	Name of Station (a)	Location of Station (b)	Prime Movers				
			Diesel or Other Type Engine (c)	Name of Maker (d)	Year Installed (e)	2 or 4 Cycle (f)	Belted or Direct Connected (g)
1							
2							
3							
4							
5							
6							
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37							
38							
39							

**COMBUSTION ENGINE AND OTHER GENERATING STATIONS -- Continued**  
(except nuclear stations)

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

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

Prime Movers -- Continued			Generators					Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
Rated hp. of Unit (h)	Total Rated hp. of Station Prime Movers (i)	Year Installed (j)	Voltage (k)	Phase (l)	Frequency or d.c. (m)	Name Plate Rating of Unit in Kilowatts (n)	Number of Units in Station (o)		
									1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
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<b>TOTALS</b>									38
									39



**TRANSMISSION LINE STATISTICS**

Reposrt information concerning transmission lines as indicated below.

Line No.	Designation		Operating Voltage (c)	Type of Supporting Structure (d)	Length (Pole Miles)		Number of Circuits (g)	Size of Conductor and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1	Woburn/	Causeway Rd.	115 kV	Single	.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								
19								
20								
21								
22								
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36								
37								
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39								
40								
41								
42								
43								
44								
45								
46								
47	<b>TOTALS</b>							

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



**OVERHEAD DISTRIBUTION LINES OPERATED**

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	TOTAL
1	Miles - Beginning of Year	339.32	0.00	339.32
2	Added During Year	12.52		12.52
3	Retired During Year	0.00		0.00
4	Miles - End of Year	351.84	0.00	351.84
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.....	30,611	31,125	4,565	318,224.0
17	Additions during year:				
18	Purchased.....		794	136	10,050.0
19	Installed.....	96			
20	Associated with Utility Plant Acquired.....				
21	<b>Total additions.....</b>	<b>96</b>	<b>794</b>	<b>136</b>	<b>10,050.0</b>
22	Reduction During Year:				
23	Retirements.....	48	239	119	7,866.0
24	Associated with Utility Plant Sold.....				
25	<b>Total Reductions.....</b>	<b>48</b>	<b>239</b>	<b>119</b>	<b>7,866.0</b>
26	<b>Number at End of Year.....</b>	<b>30,659</b>	<b>31,680</b>	<b>4,582</b>	<b>320,408.0</b>
27	In Stock.....		1,021	0	0.0
28	Locked Meters on Customers' Premises.....				
29	Inactive Transformers on System.....				
30	In Customers' Use.....		30,659		
31	In Company's Use.....				
32	<b>Number at End of Year.....</b>		<b>31,680</b>	<b>4,582</b>	<b>320,408.0</b>

**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		154.8 miles	48.9 miles	13.8 kv		
3			.3 miles	34.5 kv		
4			99.9 miles	7.97 kv		
5			2.4 miles	2.4 kv		
6			1.4 miles	240 kv		
7			1.9 miles	4.16 kv		
8						
9						
10						
11						
12						
13						
14						
15						
16						
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32						
33						
34						
		<b>TOTALS</b>				

\*Indicate number of conductors per cable.

**STREET LAMPS CONNECTED TO SYSTEM**

Line No.	City or Town (a)	Total (b)	TYPE							
			Incandescent		Mercury Vapor		Fluorescent / LED		High Press. Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Reading	2,595	0	0	0	0	2,527	0	68	0
2	Lynnfield	826	0	0	0	0	824	0	2	0
3	North Reading	2,033	0	0	0	0	1,961	0	72	0
4	Wilmington	2,988	0	0	1	0	2,982	0	5	0
5										
6										
7										
8										
9										
10										
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49										
50										
51										
52	<b>TOTALS</b>	<b>8,442</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>8,294</b>	<b>0</b>	<b>147</b>	<b>0</b>

**RATE SCHEDULE INFORMATION**

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

Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect of Annual Revenues	
			Increases	Decrease
		NONE		

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

..... Mayor.

  
coleen obrien (Sep 23, 2020 20:38 EDT)

..... Manager of Electric Light

Coleen M. O'Brien, General Manager

  
David Talbot (Sep 28, 2020 15:17 EDT)

..... Selectmen

David Talbot, Chair

  
john stempeck (Sep 28, 2020 17:06 EDT)

..... or

John Stempeck, Vice Chair

  
Philip B. Pacino (Sep 28, 2020 18:47 EDT)

..... Members

Philip B. Pacino

  
David Hennessey (Sep 29, 2020 15:03 EDT)

..... of the Municipal

David Hennessey

..... Light Board

Thomas O'Rourke

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

Middlesex ss

Then personally appeared.....

.....  
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.....  
.....  
.....  
.....

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

# DPU2019 FINAL

Final Audit Report

2020-09-29

Created:	2020-09-23
By:	Wendy Markiewicz (wmarkiewicz@rml.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAImSD5ag5RvIJdb54xngJTkE56K8z_q3r

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Signature Date: 2020-09-29 - 7:03:38 PM GMT - Time Source: server- IP address: 173.48.231.244

 Agreement completed.

2020-09-29 - 7:03:38 PM GMT