

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,

2020

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**

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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 | Mark L. Dockser, Chair Anne D J Landry, Vice Chair Carlo Bacci, Secretary Karen Herrick Vanessa I Alvarado |
| 5. Name and address of town (or city) treasurer: | Endri Kume 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: | John Stempeck, Chair David Hennessy, Vice Chair Phillip B. Pacino David Talbot Robert Coulter |
| 8. Total valuation of estates in town (or city) according to last state valuation | \$5,467,372,988.00 |
| 9. Tax rate for all purposes during the year: | \$13.95 |
| 10. Amount of manager's salary: | \$215,970.78 |
| 11. Amount of manager's bond: | \$50,000.00 |
| 12. Amount of salary paid to members of municipal light board (each) | \$0.00 |

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

| | | |
|---------------------------------------|--|-------------------|
| INCOME FROM PRIVATE CONSUMERS: | | |
| 1 | From sales of gas..... | |
| 2 | From sales of electricity | 85,572,333 |
| 3 | | |
| 4 | TOTAL | 85,572,333 |
| 5 | Expenses: | |
| 6 | For operation, maintenance and repairs..... | 76,963,681 |
| 7 | For interest on bonds, notes or scrip..... | |
| 8 | For depreciation fund (3% on \$150,800,000.00)..... | 4,699,207 |
| 9 | For sinking fund requirements..... | |
| 10 | For note payments..... | |
| 11 | For bond payments..... | |
| 12 | For loss in preceding year..... | |
| 13 | TOTAL | 81,662,888 |
| 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 | | Names of cities of towns in which the plant supplies ELECTRICITY , with the number of customers' meters in each | |
|---|--------------------------------------|---|--------------------------------------|
| City or Town | Number of Customers' Meters, Dec 31. | City or Town | Number of Customers' Meters, Dec 31. |
| | | Reading | 10,731 |
| | | Lynnfield | 3,126 |
| | | North Reading | 6,857 |
| | | Wilmington | 9,587 |
| | | Co-Op Resale | 20 |
| | | TOTAL | 30,321 |

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 2020 CONSTRUCTION HIGHLIGHTS

The Reading Municipal Light Department's (RMLD) system peak demand in Calendar Year 2020 was 163,970 kW occurring on July 28, 2020, hour ending 2:00 pm. This was 5% lower than the highest peak demand of 172,493 kW set in August 2006. RMLD purchased 677,856,253 kWh in Calendar, Year 2020.

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

- Parkview Road – RMLD replaced seven poles, and reconnected 950 feet of primary cable, 950 feet of secondary cable, upgraded two transformers and 17 services.
- Deborah Drive/Applegate Lane/Covey Hill Road - RMLD replaced 14 poles, four transformers and upgraded approximately 2,200 feet of primary cable and approximately 2,374 feet of secondary cable.
- Notable examples of new service additions or upgrades:
 - Postmark Square – 136 Haven Street
 - Birch Meadow Elementary School (Modular Classrooms) – 27 Arthur B. Lord Drive
 - Austin Preparatory School – 101 Willow Street
 - Rise 475 Luxury Apartments – 467 Main Street

WILMINGTON

- Kenwood Road - Verizon replaced 22 poles. RMLD reconnected 2,250 feet of primary cable, 2,750 feet of secondary cable, and upgraded six transformers and 15 services.
- Marion Street: Phase 2 - Verizon replaced 29 poles. RMLD installed approximately 2,300 circuit feet of primary cable, and replaced five overhead pole mounted transformers. RMLD is now in the process of replacing approximately 3,300 feet of secondary main cable and 1,700

feet of service cable.

- Carson Avenue – Removed stepdown and converted two transformers.
- Notable examples of new service additions or upgrades:
 - Analog Devices, 804 Woburn Street (3-phase service for EV charging stations)
 - Physical Sciences Inc. - 200 Research Drive
 - PPF Industrial, 613 Main Street
 - Mapvale LLC, 196 Ballardvale Street
 - Golden Nozzle Car Wash, 220 Main Street
 - Azurity Pharmaceuticals - 841 Woburn Street

NORTH READING

- 3W15 Getaway Improvements – Completed conduit system from Station 3 to new riser pole. Installed new riser pole and approximately 1,000 feet of cable.
- Greenbriar Drive – Replaced approximately 1,400 feet of primary underground cable, upgraded a damaged riser pole, and replaced three pole mount transformers in enclosures with three pad mount transformers.
- Dogwood/Swan Pond – Replaced three transformers on Adams/Dogwood and converted the step-down area.
- Notable examples of new service additions or upgrades:
 - Commercial Space Providers – 73 Concord Street

LYNNFIELD

- Westover Drive - Replaced three transformers and approximately 4,000 feet of primary cable.
- Parsons Avenue – Verizon replaced five poles and RMLD transferred and upgraded their facilities, which included two transformers and associated equipment.
- North Main Street/Lowell Street – Verizon set 46 poles. RMLD set two poles and reconductored 4,500 circuit feet of three-phase spacer cable, 2,200 feet of single-phase primary, 2,800 feet of secondary cable, upgraded 18 transformers and 26 services.
- Thomas, Putney, Bancroft, Atherton Area – Verizon replaced 36 Poles. RMLD reconductored 4,400 circuit feet of single phase overhead primary cable, 8,400 circuit feet of overhead secondary cable, upgraded nine transformers and 93 services.
- Notable examples of new service additions or upgrades:

- Verizon Cell Site – 4 Knoll Road

CUSTOMER CALLS

The Department answered approximately 2,472 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 46 calls related to utility pole hits as a result of motor vehicle accidents.

POLE REPLACEMENTS

The Department completed approximately 95 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 4,232 DIGSAFE calls.

METERS

Between the Meter and Line departments, service upgrades, new construction, and renovations resulted in a total of 191 new overhead and underground residential and commercial/industrial services delineated as follows:

- Reading – 111 residential and 11 commercial/industrial
- Lynnfield – four (4) residential and two (2) commercial/industrial
- North Reading – 10 residential and one (1) commercial/industrial
- Wilmington – 27 residential and 25 commercial/industrial

A total of 152 new residential services represents a 56% decrease from new residential services in CY19 (348). A total of 39 commercial/industrial services were installed representing a 5% increase over the previous year's total of 37.

Four hundred and sixty (460) meters were replaced due to routine residential and commercial meter replacements.

TREE TRIMMING AND PREVENTATIVE MAINTENANCE

In 2020 the RMLD continued its tree trimming and preventive maintenance program in Reading, North Reading, Wilmington, and Lynnfield Center. In accordance with our Vegetation Management Plan, Mayer Tree Services completed approximately 1,060 spans. Additionally, they cleared the areas of Main Street, Lowell Street, Durham Road, Willowby Way, Daventry Court, Chatham Way along with Lansdowne Court in Lynnfield in support of a large area upgrade in Lynnfield. Mayer Tree Services also provided emergency response, storm stand-by, and tree removal as necessary.

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 57.83 average minutes of outage time, and SAIFI was 0.33 instances.

SAIDI measures the average interruption duration (in minutes) for customers served by the utility. SAIDI was 19.19 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 2020, there were a total of 152 residential (1,1074 kW) and 17 commercial (2,135 kW) sites generating solar energy within RMLD's service territory. In Calendar Year 2020, photovoltaic systems were added at 24 residential locations (four in Lynnfield, ten in Reading, seven in North Reading, and three in Wilmington). There were no commercial sites added in 2020.

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 (Solar Choice 1), and 40-50 Fordham Road in Wilmington (Solar Choice 2). These three systems add another 4,709 kW of solar generating capacity.

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 Corporation was selected as the contractor for the Customer Parking Lot Improvement Project. In May 2020, the irrigation expansion was completed, bushes and trees planted, parking lot asphalt rolled out and line striping completed. The installation of the electric vehicle charging station, benches, and bollards completed the project in June 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. The project commenced in January 2020, the new generator was received and set on the new pad in February. The project was completed March 2020 with the final inspection performed by the electrical inspector.

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 commenced on January 31, 2020, with the cleaning of a test area. The actual roof work was completed in July 2020 and the project was closed out in December 2020 with the acceptance of warranties.

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 Corporation 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. In January 2020, the excavation was completed, and the work moved forward. The building inspector came out to inspect form footings and rebar for compliance. The project continued with the installation of steel, concrete, and the light post. The building inspector issued the certificate of use and occupancy in July 2020, the architect's final construction control document was submitted in early August 2020, and the project punch list was completed September 2020. In October 2020, RMLD Line department staff moved the granite blocks into place.

Building Upgrades:

In June 2020, the Facilities group selected PLM Electric Power Engineering as the firm to provide engineering services for the Substation 4 Air Conditioning Project.

In December 2020, Ambient Temperature Corporation was selected as the contractor for the Substation 4 Air Conditioning Project.

In June 2020, the Facilities group selected PLM Electric Power Engineering as the firm to provide engineering services for the Station 3 generator replacement.

In June 2020, the Facilities group selected Meridian Associates as the firm to provide engineering services for Station 3 Transformer Rack Storage Project.

Fire Safety:

Annual fire extinguisher inspection and maintenance was completed in August with over 160 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 August 2020, Burns & McDonnell Engineering Company, Inc., was selected as the vendor to perform a comprehensive physical security risk assessment. The project commenced on October 2, 2020, with a preliminary Zoom meeting for the project overview and initial planning discussion.

Fleet:

In November 2020, 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 always safe and operational, especially during significant weather events. In addition, preventative maintenance was performed on 21 light-duty vehicles during the year.

In July 2020, the Line department received one new Sauber Pole Dinkey Trailer.

In July 2020, the Line department received one new underground utility vehicle with the trade in of one 2001 Ford F450, 36' bucket truck (former vehicle 34).

In August 2020, the Line department received one new Ford F-150 with the trade in of one 2005 Ford F-150 (former vehicle 24). The Engineering department received three new Toyota Highlander Hybrid SUVs with the trade of one 2008 Ford Escape Hybrid SUV (former vehicle 1), one with the trade of one 2009 Ford F-150 (former vehicle 36), and one with the trade of one 2005 Ford F-150 (former vehicle 4). The Assistant Director of Engineering and Operations received one new Toyota Highlander Hybrid SUV with the trade of one 2007 Ford Escape Hybrid SUV (former vehicle 33).

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 | | | | | |
| May-1907 | Oct-1907 | 26,000 | | | | | |
| Jun-1911 | Jul-1911 | 20,000 | | | | | |
| Aug-1913 | Oct-1913 | 23,500 | | | | | |
| Sep-1914 | Sep-1914 | 8,000 | | | | | |
| Mar-1916 | May-1916 | 10,000 | | | | | |
| Mar-1917 | Oct-1917 | 55,000 | | | | | |
| Oct-1918 | Jan-1919 | 12,000 | | | | | |
| Mar-1919 | Apr-1919 | 20,000 | | | | | |
| Mar-1917 | May-1920 | 20,000 | | | | | |
| Dec-1923 | Dec-1924 | 10,000 | | | | | |
| Mar-1928 | Aug-1927 | 13,000 | | | | | |
| Mar-1930 | Jun-1930 | 15,000 | | | | | |
| Mar-1931 | Apr-1931 | 40,000 | | | | | |
| Jan-1951 | Oct-1951 | 150,000 | | | | | |
| Dec-1952 | Jul-1953 | 150,000 | | | | | |
| Mar-1955 | Dec-1955 | 125,000 | | | | | |
| Mar-1956 | Sep-1956 | 600,000 | | | | | |
| Mar-1970 | Nov-1970 | 600,000 | | | | | |
| Mar-1970 | Aug-1979 | 1,000,000 | | | | | |
| Feb-1991 | Feb-1991 | 3,465,000 | | | | | |
| Dec-1992 | Dec-1992 | 1,860,000 | 210,000 | February 15 | 4.10 | February 15; August 15 | 0.00 |
| Jul-1996 | Jul-1996 | 2,978,000 | 296,000 | July 1 | 4.83 | January 1; July 1 | 0.00 |
| Dec-1999 | Dec-1999 | 5,500,000 | 550,000 | September 1 | 4.57 | March 1; September 1 | 0.00 |
| TOTAL | | 16,750,500 | 1,056,000 | | | | - |

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 | | | | | |
| Dec-1896 | Dec-1896 | 1,500 | | | | | |
| Mar-1898 | Jul-1898 | 3,000 | | | | | |
| Mar-1903 | Dec-1903 | 1,400 | | | | | |
| Mar-1909 | Nov-1909 | 2,500 | | | | | |
| Jan-1909 | Jan-1910 | 1,800 | | | | | |
| Jan-1910 | Mar-1910 | 12,000 | | | | | |
| Mar-1911 | Jul-1911 | 2,200 | | | | | |
| Mar-1913 | Apr-1913 | 13,500 | | | | | |
| Mar-1915 | May-1915 | 12,000 | | | | | |
| Mar-1915 | Jul-1915 | 4,000 | | | | | |
| Mar-1917 | Sep-1917 | 6,500 | | | | | |
| Nov-1919 | Nov-1919 | 3,000 | | | | | |
| Mar-1921 | Jul-1921 | 7,000 | | | | | |
| Dec-1922 | Dec-1922 | 7,000 | | | | | |
| May-1934 | May-1934 | 20,000 | | | | | |
| Mar-1935 | Jun-1935 | 20,000 | | | | | |
| Mar-1937 | Apr-1937 | 60,000 | | | | | |
| Jun-1939 | Nov-1939 | 25,000 | | | | | |
| Mar-1939 | Jul-1939 | 15,000 | | | | | |
| Jun-1939 | Jul-1939 | 36,000 | | | | | |
| Mar-1941 | May-1941 | 21,000 | | | | | |
| Mar-1941 | May-1941 | 10,000 | | | | | |
| Dec-1948 | Mar-1949 | 80,000 | | | | | |
| Nov-1985 | Dec-1985 | 183,427 | | | | | |
| Aug-1992 | Aug-1992 | 680,000 | | | | | |
| Apr-1994 | Apr-1994 | 2,000,000 | | | | | |
| Aug-1995 | Aug-1995 | 1,090,000 | | | | | |
| | TOTAL | 4,324,827 | | | | | 0.00 |

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

TOTAL COST OF PLANT - ELECTRIC (Continued)

| Line No. | Account (a) | Balance Beginning of Year (b) | Additions (c) | Retirements (d) | Adjustments (e) | Transfers (f) | Balance End of Year (g) |
|----------|--|-------------------------------|---------------|-----------------|-----------------|---------------|-------------------------|
| 1 | C. Hydraulic Production Plant | | | | | | |
| 2 | 330 Land and Land Rights..... | | | | | | |
| 3 | 331 Structures and Improvements..... | | | | | | |
| 4 | 332 Reservoirs, Dams and Waterways | | | | | | |
| 5 | 333 Water wheels, Turbines and Generators..... | | | | | | |
| 6 | 334 Accessory Electric Equipment..... | | | | | | |
| 7 | 335 Miscellaneous Power Plant Equipment..... | | | | | | |
| 8 | 336 Roads, Railroads and Bridges..... | | | | | | |
| 9 | 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..... | 2,479,336 | | | | | 2,479,336 |
| 16 | 345 Accessory Electric Equipment..... | | | | | | |
| 17 | 346 Miscellaneous Power Plant Equipment..... | | | | | | |
| 18 | Total Other Production Plant | 2,479,336 | - | - | - | - | 2,479,336 |
| 19 | Total Production Plant | 2,479,336 | - | - | - | - | 2,479,336 |
| 20 | 3. Transmission Plant | | | | | | |
| 21 | 350 Land and Land Rights..... | 25,015 | | | | | 25,015 |
| 22 | 351 Clearing Land and Rights of Way | | | | | | |
| 23 | 352 Structures and Improvements..... | 1,584,213 | | | | | 1,584,213 |
| 24 | 353 Station Equipment..... | 5,680,751 | | | | | 5,680,751 |
| 25 | 354 Towers and Fixtures..... | 86,169 | | | | | 86,169 |
| 26 | 355 Poles and Fixtures..... | 300,248 | | | | | 300,248 |
| 27 | 356 Overhead Conductors and Devices... | 229,661 | | | | | 229,661 |
| 28 | 357 Underground Conduits..... | 44,256 | | | | | 44,256 |
| 29 | 358 Underground Conductors and Devices | 61,954 | | | | | 61,954 |
| 30 | 359 Roads and Trails..... | | | | | | |
| 31 | Total Transmission Plant | 8,012,267 | - | - | - | - | 8,012,267 |

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 | 10,491,603 | - | - | - | - | 10,491,603 |
| 1 | 4. DISTRIBUTION PLANT | | | | | | |
| 2 | 360 Land and Land Rights | 843,454 | | | | | 843,454 |
| 3 | 361 Structures and Improvements | 7,296,436 | 98,311 | | | | 7,394,747 |
| 4 | 362 Station Equipment | 11,620,990 | 1,107 | | | | 11,622,097 |
| 5 | 363 Storage Battery Equipment | 79,085 | 2,290 | | | | 81,375 |
| 6 | 364 Poles, Towers and Fixtures | 30,682,087 | 1,126,052 | 129,801 | | | 31,678,338 |
| 7 | 365 Overhead Conductors and Devices | 22,561,010 | 2,170,639 | 135,543 | | | 24,596,106 |
| 8 | 366 Underground Conduits | 8,929,743 | 405,264 | 339 | | | 9,334,668 |
| 9 | 367 Underground Conductors & Devices | 11,661,140 | 968,380 | 59,372 | | | 12,570,148 |
| 10 | 368 Line Transformers | 11,076,126 | 829,958 | 480,326 | | | 11,425,758 |
| 11 | 369 Services | 5,960,162 | 146,292 | | | | 6,106,454 |
| 12 | 370 Meters | 5,208,017 | 304,498 | 32,232 | | | 5,480,283 |
| 13 | 371 Installation on Cust's Premises | - | | | | | - |
| 14 | 372 Leased Prop. on Cust's Premises | - | | | | | - |
| 15 | 373 Street Light and Signal Systems | 3,703,429 | 85,144 | 22,784 | | | 3,765,789 |
| 16 | Total Distribution Plant | 119,621,679 | 6,137,935 | 860,397 | - | - | 124,899,217 |
| 17 | 5. GENERAL PLANT | | | | | | |
| 18 | 389 Land and Land Rights | 397,372 | | | | | 397,372 |
| 19 | 390 Structures and Improvements | 9,273,598 | 229,096 | | | | 9,502,694 |
| 20 | 391 Office Furniture and Equipment | 9,000,456 | 201,148 | 63,000 | | | 9,138,604 |
| 21 | 392 Transportation Equipment | 4,597,075 | 364,063 | 190,431 | | | 4,770,707 |
| 22 | 393 Stores Equipment | 135,854 | | | | | 135,854 |
| 23 | 394 Tools, Shop and Garage Equipment | 562,024 | 27,861 | | | | 589,885 |
| 24 | 395 Laboratory Equipment | 523,036 | 11,291 | | | | 534,327 |
| 25 | 396 Power Operated Equipment | - | | | | | - |
| 26 | 397 Communication Equipment | 3,082,485 | 21,661 | | | | 3,104,146 |
| 27 | 398 Miscellaneous Equipment | 220,889 | 272,411 | | | | 493,300 |
| 28 | 399 Other Tangible Property | - | | | | | - |
| 29 | Total General Plant | 27,792,789 | 1,127,531 | 253,431 | | | 28,666,889 |
| 30 | Total Electric Plant in Service | 157,906,071 | 7,265,466 | 1,113,828 | - | - | 164,057,709 |
| 31 | | | | TOTAL COST OF PLANT..... | | | |
| 32 | | | | Less Cost of Land, Land Rights, and Rights of Way | | | 1,265,842 |
| 33 | | | | Total Cost upon which depreciation is based | | | 162,791,867 |

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..... | 80,350,456 | 82,771,715 | 2,421,259 |
| 3 | 101 Utility Plant- Gas..... | | | |
| 4 | 123 Investment in Associated Companies..... | 802,212 | 822,083 | 19,871 |
| 5 | Total Utility Plant..... | 81,152,668 | 83,593,798 | 2,441,130 |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | FUND ACCOUNTS | | | |
| 12 | 125 Sinking Funds..... | | | |
| 13 | 126 Depreciation Fund (P. 14)..... | 8,334,981 | 10,328,560 | 1,993,579 |
| 14 | 128 Other Special Funds..... | 8,836,804 | 8,806,941 | (29,863) |
| 15 | Total Funds..... | 17,171,785 | 19,135,501 | 1,963,716 |
| 16 | CURRENT AND ACCRUED ASSETS | | | |
| 17 | 131 Cash (P. 14)..... | 33,773,638 | 32,698,763 | (1,074,875) |
| 18 | 132 Special Deposits..... | 1,308,651 | 1,406,058 | 97,407 |
| 19 | 132 Working Funds..... | 3,500 | 3,500 | - |
| 20 | 141 Notes and Receivables..... | | | |
| 21 | 142 Customer Accounts Receivable..... | 7,237,460 | 7,829,191 | 591,731 |
| 22 | 143 Other Accounts Receivable..... | 76,786 | 139,328 | 62,542 |
| 23 | 146 Receivables from Municipality..... | | | |
| 24 | 151 Materials and Supplies (P. 14)..... | 1,822,376 | 1,880,288 | 57,912 |
| 25 | | | | |
| 26 | 165 Prepayments..... | 2,596,190 | 2,618,378 | 22,188 |
| 27 | 174 Miscellaneous Current Assets | | | |
| 28 | Total Current and Accrued Assets... | 46,818,601 | 46,575,506 | (243,095) |
| 29 | DEFERRED DEBITS | | | |
| 30 | 181 Unamortized Debt Discount..... | - | - | - |
| 31 | 182 Extraordinary Property Debits..... | | | |
| 32 | 185 Other Deferred Debits..... | 8,102,116 | 5,360,409 | (2,741,707) |
| 33 | Total Deferred Debits..... | 8,102,116 | 5,360,409 | (2,741,707) |
| 34 | | | | |
| 35 | Total Assets and Other Debits..... | 153,245,170 | 154,665,214 | 1,420,044 |

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 | 119,304 | - |
| 5 | 206 Loans Repayment..... | 15,403,000 | 15,403,000 | - |
| 6 | 207 Appropriations for Construction Repayment.. | | | |
| 7 | 208 Unappropriated Earned Surplus (P. 12)..... | 92,020,362 | 94,646,229 | 2,625,867 |
| 8 | Total Surplus..... | 107,542,666 | 110,168,533 | 2,625,867 |
| 9 | LONG TERM DEBT | | | |
| 10 | 221 Bonds (P. 6)..... | - | - | - |
| 11 | 231 Notes Payable (P. 7)..... | | | |
| 12 | Total Bonds and Notes..... | - | - | - |
| 13 | CURRENT AND ACCRUED LIABILITIES | | | |
| 14 | 232 Accounts Payable..... | 6,400,929 | 6,743,806 | 342,877 |
| 15 | 234 Payables to Municipality..... | | | |
| 16 | 235 Customer Deposits..... | 1,308,651 | 1,406,058 | 97,407 |
| 17 | 236 Taxes Accrued..... | | | |
| 18 | 237 Interest Accrued..... | 21,804,232 | 19,322,192 | (2,482,040) |
| 19 | 242 Miscellaneous Current and Accrued Liabilities | 2,905,895 | 2,713,984 | (191,911) |
| 20 | Total Current and Accrued Liabilities... | 32,419,707 | 30,186,040 | (2,233,667) |
| 21 | DEFERRED CREDITS | | | |
| 22 | 251 Unamortized Premium on Debt..... | | | |
| 23 | 252 Customer Advance for Construction..... | 1,952,242 | 2,292,259 | 340,017 |
| 24 | 253 Other Deferred Credits..... | 1,964,276 | 2,652,103 | 687,827 |
| 25 | Total Deferred Credits | 3,916,518 | 4,944,362 | 1,027,844 |
| 26 | RESERVES | | | |
| 27 | 260 Reserves for Uncollectable Accounts..... | 200,000 | 200,000 | - |
| 28 | 261 Property Insurance Reserve..... | | | |
| 29 | 262 Injuries and Damages Reserves..... | | | |
| 30 | 263 Pensions and Benefits..... | | | |
| 31 | 265 Miscellaneous Operating Reserves..... | | | |
| 32 | Total Reserves..... | 200,000 | 200,000 | - |
| 33 | CONTRIBUTIONS IN AID OF CONSTRUCTION | | | |
| 34 | 271 Contributions in Aid of Construction..... | 9,166,279 | 9,166,279 | - |
| 35 | Total Liabilities and Other Credits | 153,245,170 | 154,665,214 | 1,420,044 |

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) | 85,572,332 | (2,739,646) |
| 3 | Operating Expenses: | | |
| 4 | 401 Operation Expense (P. 42)..... | 71,998,223 | (2,624,274) |
| 5 | 402 Maintenance Expense (P. 42)..... | 3,358,446 | 351,739 |
| 6 | 403 Depreciation Expense | 4,699,208 | 173,211 |
| 7 | 407 Amortization of Property Losses..... | | |
| 9 | 408 Taxes (P. 49)..... | 1,607,009 | 37,342 |
| 10 | Total Operating Expenses | 81,662,886 | (2,061,982) |
| 11 | Operating Income..... | | |
| 12 | 414 Other Utility Operating Income (P. 50)..... | | |
| 13 | | | |
| 14 | Total Operating Income | 3,909,446 | (677,664) |
| 15 | OTHER INCOME | | |
| 16 | 415 Income from Merchandising, Jobbing, and Contract Work (P. 51).... | 937,457 | 109,658 |
| 17 | 419 Interest Income..... | 390,425 | (578,763) |
| 18 | 421 Miscellaneous Income..... | | |
| 19 | Total Other Income | 1,327,882 | (469,105) |
| 20 | Total Income | 5,237,328 | (1,146,769) |
| 21 | MISCELLANEOUS INCOME DEDUCTIONS | | |
| 22 | 425 Miscellaneous Change in Accounting Principle..... | | |
| 23 | 426 Other Income Deductions..... | | |
| 24 | Total Income Deductions | - | - |
| 25 | Income before Interest Charges | 5,237,328 | (1,146,769) |
| 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..... | 27,777 | (1,819) |
| 31 | 432 Interest Charged to Construction-Credit..... | | |
| 32 | Total Interest Charges | 27,777 | (1,819) |
| 33 | Net Income | 5,209,551 | (1,144,950) |
| | EARNED SURPLUS | | |
| Line No. | (a) | Debits (b) | Credits (c) |
| 34 | Unappropriated Earned Surplus (at beginning of period)..... | | 92,020,362 |
| 35 | restated - Implementation of GASB 75 | | |
| 36 | | | |
| 37 | 433 Balance Transferred from Income..... | | 5,209,551 |
| 38 | 434 Miscellaneous Credits to Surplus (P. 21)..... | | 6,761 |
| 39 | 435 Miscellaneous Debits to Surplus (P. 21)..... | 163,530 | |
| 40 | 436 Appropriations of Surplus (P. 21)..... | 2,480,506 | |
| 41 | 437 Surplus Applied to Depreciation..... | | 53,591 |
| 42 | 208 Unappropriated Earned Surplus (at end of period)..... | 94,646,229 | |
| 43 | | | |
| 44 | TOTALS | 97,290,265 | 97,290,265 |

CASH BALANCES AT END OF YEAR (Account 131)

| Line No. | Items (a) | Amount (b) |
|----------|------------------------|------------|
| 1 | Operation Fund..... | 32,698,763 |
| 2 | Interest Fund..... | |
| 3 | Bond Fund..... | |
| 4 | Construction Fund..... | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | TOTAL | 32,698,763 |

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

| Line No. | Account (a) | Amount End of Year | |
|----------|--|--------------------|---------|
| | | Electric (b) | Gas (c) |
| 13 | Fuel (Account 151) (See Schedule, Page 25)..... | 1,880,288 | |
| 14 | Fuel Stock Expenses (Account 152)..... | | |
| 15 | Residuals (Account 153)..... | | |
| 16 | Plant Materials and Operating Supplies (Account 154)..... | | |
| 17 | Merchandise (Account 155)..... | | |
| 18 | Other Materials and Supplies (Account 156)..... | | |
| 19 | Nuclear Fuel Assemblies and Components - In Reactor (Acct 157) | | |
| 20 | Nuclear Fuel Assemblies and Components - Stock Acct (Acct 158) | | |
| 21 | Nuclear Byproduct Materials (Account 159)..... | | |
| 22 | Stores Expense (Account 163)..... | | |
| 23 | Total per Balance Sheet | 1,880,288 | |

Depreciation Fund Account (Account 126)

| Line No. | (a) | Amount (b) |
|----------|--|------------|
| 24 | DEBITS | |
| 25 | Balance of Account at Beginning of Year..... | 8,334,981 |
| 26 | Income During Year from Balance on Deposit..... | 59,838 |
| 27 | Amount Transferred from Income..... | 9,199,207 |
| 28 | TOTAL | 17,594,026 |
| 29 | | |
| 30 | CREDITS | |
| 31 | Amount expended for Construction Purposes (Sec. 57C164 of G.L.)..... | 7,265,466 |
| 32 | Amounts Expended for Renewals..... | |
| 33 | Adjustment..... | |
| 34 | | |
| 35 | | |
| 36 | | |
| 37 | | |
| 38 | | |
| 39 | Balance on Hand at End of Year..... | |
| 40 | TOTAL | 10,328,560 |

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..... | 2,308,923 | - | 74,380 | | | 2,234,543 |
| 16 | 345 Accessory Electric Equipment..... | | | | | | |
| 17 | 346 Miscellaneous Power Plant Equipment..... | | | | | | |
| 18 | Total Other Production Plant | 2,308,923 | - | - | - | - | 2,234,543 |
| 19 | Total Production Plant | 2,308,923 | - | - | - | - | 2,234,543 |
| 20 | 3. TRANSMISSION PLANT | | | | | | |
| 21 | 350 Land and Land Rights..... | 25,016 | - | - | | | 25,016 |
| 22 | 351 Clearing Land and Rights of Way.. | - | - | - | | | - |
| 23 | 352 Structures and Improvements..... | 581,153 | - | 28,379 | | | 552,774 |
| 24 | 353 Station Equipment..... | 3,363,094 | - | 136,769 | | | 3,226,325 |
| 25 | 354 Towers and Fixtures..... | - | - | - | | | - |
| 26 | 355 Poles and Fixtures..... | 176,364 | - | 9,007 | | | 167,357 |
| 27 | 356 Overhead Conductors and Device.. | 150,751 | - | 6,890 | | | 143,861 |
| 28 | 357 Underground Conduits..... | 1,479 | - | 51 | | | 1,428 |
| 29 | 358 Underground Conductors and Dev.. | 22,490 | - | 771 | | | 21,719 |
| 30 | 359 Roads and Trails..... | - | - | - | | | - |
| 31 | Total Transmission Plant | 4,320,347 | - | 256,247 | - | - | 4,138,480 |

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 | - | - | | | 843,454 |
| 3 | 361 Structures and Improvements..... | 4,138,017 | 98,311 | 218,893 | | | 4,017,435 |
| 4 | 362 Station Equipment..... | 5,239,740 | 1,106 | 224,495 | | | 5,016,351 |
| 5 | 363 Storage Battery Equipment..... | 46,934 | 2,290 | 2,373 | | | 46,851 |
| 6 | 364 Poles and Fixtures..... | 18,282,712 | 1,126,052 | 1,019,846 | | | 18,388,918 |
| 7 | 365 Overhead Conductors and Devices..... | 16,728,016 | 2,170,642 | 749,907 | | | 18,148,751 |
| 8 | 366 Underground Conduits..... | 3,132,915 | 405,264 | 296,816 | | | 3,241,363 |
| 9 | 367 Underground Conductors and Devices | 6,434,110 | 968,380 | 387,606 | | | 7,014,884 |
| 10 | 368 Line Transformers..... | 5,337,509 | 829,958 | 368,160 | | (124,014) | 5,675,293 |
| 11 | 369 Services..... | 1,334,771 | 146,292 | 198,110 | | | 1,282,953 |
| 12 | 370 Meters..... | 3,151,095 | 304,498 | 173,110 | | (20,987) | 3,261,496 |
| 13 | 371 Installation on Cust's Premises.... | | - | - | | | |
| 14 | 372 Leased Prop. on Cust's Premises. | | - | - | | | |
| 15 | 373 Street Light and Signal Systems..... | 2,649,781 | 85,144 | 123,099 | | | 2,611,826 |
| 16 | Total Distribution Plant | 67,319,054 | 6,137,937 | 3,762,415 | - | (145,001) | 69,549,575 |
| 17 | 5. GENERAL PLANT | | | | | | |
| 18 | 389 Land and Land Rights..... | 397,372 | - | - | | | 397,372 |
| 19 | 390 Structures and Improvements..... | 2,822,721 | 229,096 | 240,088 | | | 2,811,729 |
| 20 | 391 Office Furniture and Equipment..... | 1,379,645 | 201,148 | 158,893 | | | 1,421,900 |
| 21 | 392 Transportation Equipment..... | 464,442 | 364,063 | 188,089 | | | 640,416 |
| 22 | 393 Stores Equipment..... | 28,787 | - | 2,508 | | | 26,279 |
| 23 | 394 Tools, Shop and Garage Equipment. | 49,819 | 27,861 | 5,624 | | | 72,056 |
| 24 | 395 Laboratory Equipment..... | 130,817 | 11,291 | 11,356 | | | 130,752 |
| 25 | 396 Power Operated Equipment..... | | - | - | | | |
| 26 | 397 Communication Equipment..... | 1,064,233 | 21,661 | 63,504 | | | 1,022,390 |
| 27 | 398 Miscellaneous Equipment..... | 64,296 | 272,411 | 10,484 | | | 326,223 |
| 28 | 399 Other Tangible Property..... | | | | | | |
| 29 | Total General Plant | 6,402,132 | 1,127,531 | 680,546 | - | - | 6,849,117 |
| 30 | Total Electric Plant in Service | 80,350,456 | 7,265,468 | 4,699,208 | - | (145,001) | 82,771,715 |
| 31 | 104 Utility Plant Leased to Others..... | - | - | - | | | - |
| 32 | 105 Property Held for Future Use..... | - | - | - | | | - |
| 33 | 107 Construction Work in Progress..... | - | - | - | | | - |
| 34 | Total Utility Electric Plant | 80,350,456 | 7,265,468 | 4,699,208 | - | (145,001) | 82,771,715 |

| 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) | 6,761 |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | TOTAL | 6,761 |
| MISCELLANEOUS DEBITS TO SURPLUS (Account 435) | | |
| Line No. | Item (a) | Amount (b) |
| 24 | | |
| 25 | | |
| 26 | Loss on Disposal of Electric Plant Utility | 163,530 |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | TOTAL | 163,530 |
| APPROPRIATIONS OF SURPLUS (Account 436) | | |
| Line No. | Item (a) | Amount (b) |
| 33 | | |
| 34 | Transfer to Town of Reading | 2,480,506 |
| 35 | | |
| 36 | | |
| 37 | | |
| 38 | | |
| 39 | | |
| 40 | TOTAL | 2,480,506 |

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

| Line No. | Acct No. | Gas Schedule (a) | Cubic Feet (b) | Revenue Received (c) | Average Revenue per M.C.F. [\$0.0000] (d) |
|----------|----------|---|-------------------|----------------------|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | TOTALS | | | |
| Line No. | | Electric Schedule (a) | K.W.H. (b) | Revenue Received (c) | Average Revenue per K.W.H. [cents] [\$0.0000] (d) |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | 444 | Municipal: (Other than Street Lighting) | 20,524,899 | 1,475,477 | 0.0719 |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | Municipal Street Lighting | 984,481 | 174,041 | 0.1768 |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | TOTALS | 21,509,380 | 1,649,517.61 | 0.0767 |

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 | | 145,889,167 | \$6,549,449 | 0.0449 |
| 21 | ENE Consulting Fees | | 0 | \$310,821 | |
| 22 | Nextera | | 344,797,190 | \$13,851,338 | 0.0402 |
| 23 | HQ Phase 2 Companies | | 0 | (\$438,877) | |
| 24 | ISO-NE | | (2,211,714) | (\$115,485) | 0.0522 |
| 25 | ISO-NE/REMVEC | | | \$25,519,218 | |
| 27 | Battery Storage | | 0 | \$560,031 | |
| 28 | Solar/Wind | | 28,552,414 | \$1,765,808 | 0.0618 |
| 29 | Middleton/Nat Grid | | 171,034 | \$26,354 | 0.1541 |
| 30 | Braintree Watson | | 6,755,932 | \$1,636,164 | 0.2422 |
| 31 | Hydro Projects | | 57,148,630 | \$3,847,679 | 0.0673 |
| 32 | Exelon | | 96,753,600 | \$3,745,773 | 0.0387 |
| 32 | | TOTALS | 677,856,253 | 57,258,274 | 0.0845 |

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 | 3,198,760 | 426,121 | 0.1332 |
| 33 | Town of Wakefield | Customer Premises | 1,122,100 | 81,073 | 0.0723 |
| 34 | Town of Middleton | Customer Premises | 9,420 | 1,296 | 0.1376 |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| 41 | | TOTALS | 4,330,280 | 508,490 | 0.1174 |

ELECTRIC OPERATING REVENUES (Account 400)

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

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

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

| Line No. | Account (a) | Operating Revenues | | Kilowatt-hours Sold | | Average Number of Customers per Month | |
|----------|---|---------------------|--|---------------------|--|---------------------------------------|--|
| | | Amount for Year (b) | Increase or (Decrease) from Preceding Year (c) | Amount for Year (d) | Increase or (Decrease) from Preceding Year (e) | Number for Year (f) | Increase or (Decrease) from Preceding Year (g) |
| 1 | SALES OF ELECTRICITY | | | | | | |
| 2 | 440 Residential Sales..... | 25,140,319 | 1,185,696 | 258,497,190 | 17,961,258 | 27,068 | (86) |
| 3 | 442 Commercial and Industrial Sales: | 24,251,544 | (2,189,273) | 366,405,561 | (10,951,049) | 4,051 | 251 |
| 4 | Small (or Commercial) see instr. 5..... | | | | | | |
| 5 | Large (or Industrial) see instr. 5..... | | | | | | |
| 6 | 444 Municipal Sales (P.22) | 1,649,518 | (396,247) | 21,509,380 | (3,203,589) | 294 | 3 |
| 7 | 445 Other Sales to Public Authorities..... | | | | | | |
| 8 | 446 Sales to Railroads and Railways..... | | | | | | |
| 9 | 448 Interdepartmental Sales..... | | | | | | |
| 10 | 449 Miscellaneous Electric Sales..... | 133,251 | (13,601) | 437,493 | (239,792) | 241 | (2) |
| | 449.1 Provision for Rate Refunds/PPCT..... | 32,421,014 | (1,376,600) | | | | |
| 11 | Total Sales to Ultimate Consumers..... | 83,595,645 | (2,790,026) | 646,849,624 | 3,566,828 | 31,654 | 166 |
| 12 | 447 Sales for Resale..... | 508,490 | 29,609 | 4,330,280 | 398,422 | 20 | 0 |
| 13 | Total Sales of Electricity*..... | 84,104,135 | (2,760,417) | 651,179,904 | 3,965,250 | 31,674 | 166 |
| 14 | OTHER OPERATING REVENUES | | | | | | |
| 15 | 450 Forfeited Discounts..... | 825,514 | 17,422 | | | | |
| 16 | 451 Miscellaneous Service Revenues (ECC)..... | 642,683 | 3,349 | | | | |
| 17 | 453 Sales of Water and Water Power..... | | | | | | |
| 18 | 454 Rent from Electric Property..... | | | | | | |
| 19 | 455 Interdepartmental Rents..... | | | | | | |
| 20 | 456 Other Electric Revenues | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | Total Other Operating Revenues..... | 1,468,197 | 20,771 | | | | |
| 26 | Total Electric Operating Revenues. | 85,572,332 | (2,739,646) | | | | |
| | | | | | | | |

*Includes revenues from application of fuel clauses **24,119,833**
 Total KWH to which applied **651,179,904**

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-20 (e) | Dec-20 (f) |
| 1 | Residential - A | | 258,497,190 | 25,140,319 | 0.0973 | 26,857 | 26,982 |
| 2 | Industrial - C | | 366,405,561 | 24,251,544 | 0.0662 | 4,298 | 4,301 |
| 3 | Municipal - C | | 20,524,899 | 1,475,477 | 0.0719 | 278 | 282 |
| 4 | Street Lighting | | 984,481 | 174,041 | 0.1768 | 15 | 15 |
| 5 | Private Street Lighting | | 437,493 | 133,251 | 0.3046 | 239 | 239 |
| 6 | | | | | | | |
| 7 | Provision for Purchased Power Adjustments | | | 32,421,014 | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
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| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | | | | | | |
| 47 | | | | | | | |
| 48 | TOTAL SALES TO ULTIMATE | | | | | | |
| 49 | CONSUMERS (Page 37 Line 11) | | | 646,849,624 | 83,595,645 | 0.1292 | 31,687 |

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 | - | - |
| 9 | Total Power Production Expenses - Hydraulic Power | - | - |
| 10 | OTHER POWER GENERATION | | |
| 11 | Operation: | | |
| 12 | 546 Operation Supervision and Engineering..... | | |
| 13 | 547 Fuel..... | | |
| 14 | 548 Operation Expenses..... | | |
| 15 | 549 Miscellaneous Other Power Generation Expenses..... | | |
| 16 | 550 Rents..... | | |
| 17 | Total Operation | - | - |
| 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 | - | - |
| 24 | Total Power Production Expenses - Other Power | - | - |
| 25 | OTHER POWER SUPPLY EXPENSES | | |
| 26 | 555 Purchased Power..... | 43,241,382 | (5,022,718) |
| 27 | 556 System Control and Load Dispatching..... | | |
| 28 | 557 Other Expenses..... | - | - |
| 29 | Total Other Power Supply Expenses | 43,241,382 | (5,022,718) |
| 30 | Total Power Production Expenses | 43,241,382 | (5,022,718) |
| 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..... | 14,016,892 | 1,253,808 |
| 39 | 566 Miscellaneous Transmission Expenses..... | | |
| 40 | 567 Rents..... | | |
| 41 | Total Operation | 14,016,892 | 1,253,808 |
| 42 | Maintenance: | | |
| 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 | Total Maintenance | - | - |
| 50 | Total Transmission Expenses | 14,016,892 | 1,253,808 |

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..... | 1,040,014 | 97,406 |
| 4 | 581 Load Dispatching..... | 485,450 | (32,109) |
| 5 | 582 Station Expenses..... | 442,272 | 28,163 |
| 6 | 583 Overhead Line Expenses..... | 584,261 | 149,843 |
| 7 | 584 Underground Line Expenses..... | | |
| 8 | 585 Street Lighting and Signal System Expenses..... | | |
| 9 | 586 Meter Expenses..... | 159,674 | 25,630 |
| 10 | 587 Customer Installations Expenses..... | | |
| 11 | 588 Miscellaneous Distribution Expenses..... | 442,388 | 74,140 |
| 12 | 589 Rents..... | | |
| 13 | Total Operation | 3,154,059 | 343,073 |
| 14 | Maintenance: | | |
| 15 | 590 Maintenance Supervision and Engineering..... | | - |
| 16 | 591 Maintenance of Structures..... | | |
| 17 | 592 Maintenance of Station Equipment..... | | |
| 18 | 593 Maintenance of Overhead Lines..... | 974,604 | (63,889) |
| 19 | 594 Maintenance of Underground Lines..... | 56,754 | (28,764) |
| 20 | 595 Maintenance of Line Transformers..... | 188,975 | 21,145 |
| 21 | 596 Maintenance of Street Lighting and Signal Systems..... | | |
| 22 | 597 Maintenance of Meters..... | | |
| 23 | 598 Maintenance of Miscellaneous Distribution Plant..... | 414,901 | (42,190) |
| 24 | Total Maintenance | 1,635,234 | (113,698) |
| 25 | Total Distribution Expenses | 4,789,293 | 229,375 |
| 26 | CUSTOMER ACCOUNTS EXPENSES | | |
| 27 | Operation: | | |
| 28 | 901 Supervision..... | | |
| 29 | 902 Meter Reading Expenses..... | | |
| 30 | 903 Customer Records and Collection Expenses..... | 1,293,877 | 53,826 |
| 31 | 904 Uncollectable Accounts..... | 41,701 | (16,365) |
| 32 | 905 Miscellaneous Customer Accounts Expenses..... | | |
| 33 | Total Customer Accounts Expenses | 1,335,578 | 37,461 |
| 34 | SALES EXPENSES | | |
| 35 | Operation: | | |
| 36 | 911 Supervision..... | | |
| 37 | 912 Demonstrating and Selling Expenses..... | | |
| 38 | 913 Advertising Expenses..... | | |
| 39 | 916 Miscellaneous Sales Expense..... | 1,642,576 | 402,591 |
| 40 | Total Sales Expenses | 1,642,576 | 402,591 |
| 41 | ADMINISTRATIVE AND GENERAL EXPENSES | | |
| 42 | Operation: | | |
| 43 | 920 Administrative and General Expenses..... | 2,038,351 | 103,539 |
| 44 | 921 Office Supplies and Expenses..... | 8,504 | (6,487) |
| 45 | 922 Administrative Expenses Transferred - Cr..... | | |
| 46 | 923 Outside Services Employed..... | 955,517 | 199,950 |
| 47 | 924 Property Insurance..... | 383,382 | 34,694 |
| 48 | 925 Injuries and Damages..... | 3,723 | (74,909) |
| 49 | 926 Employees Pensions and Benefits..... | 4,766,532 | 123,168 |
| 50 | 928 Regulatory Commission Expenses..... | | |
| 51 | 929 Duplicate Charges - Cr..... | | |
| 52 | 930 Miscellaneous General Expenses..... | 257,187 | 4,667 |
| 53 | 931 Rents..... | 194,542 | (969) |
| 54 | Total Operation | 8,607,738 | 383,653 |

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..... | 1,723,212 | 418,389 |
| 4 | Total Maintenance | 1,723,212 | 418,389 |
| 5 | Total Administrative and General Expenses | 10,330,950 | 802,042 |

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..... | 25,060,119 | | 25,060,119 |
| 12 | Other Power Supply Expenses..... | 18,181,263 | | 18,181,263 |
| 13 | Total Power Production Expenses | 43,241,382 | | 43,241,382 |
| 14 | Transmission Expenses..... | 14,016,890 | - | 14,016,890 |
| 15 | Distribution Expenses..... | 3,154,059 | 1,635,234 | 4,789,293 |
| 16 | Customer Accounts Expenses..... | 1,335,578 | | 1,335,578 |
| 17 | Sales Expenses..... | 1,642,576 | | 1,642,576 |
| 18 | Administrative and General Expenses..... | 8,607,738 | 1,723,212 | 10,330,950 |
| 19 | | | | |
| 20 | Total Electric Operation and Maintenance Expenses | 71,998,223 | 3,358,446 | 75,356,669 |

| | | |
|----|---|-----------|
| 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)..... | 93.55% |
| 22 | Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts..... \$ | 9,200,647 |
| 23 | Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees)..... | 73 |

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 | 1,607,009 | 1,607,009 | | | | | | | |
| 5 | | | | | | | | | | |
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| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | TOTAL | 1,607,009 | 1,607,009 | | | | | | | |

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..... | 843,711 | | | 843,711 |
| 4 | Contract Work - Street Lights..... | | | | |
| 5 | Commissions..... | | | | |
| 6 | Other (List according to major classes) | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Total Revenues..... | 843,711 | | | 843,711 |
| 11 | | | | | |
| 12 | | | | | |
| 13 | Costs and Expenses: | | | | |
| 14 | Cost of Sales (List according to major | | | | |
| 15 | classes of cost)..... | 93,746 | | | 93,746 |
| 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 | | | | | |
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| 48 | | | | | |
| 49 | | | | | |
| 50 | TOTAL COSTS AND EXPENSES | 93,746 | | | 93,746 |
| 51 | Net Profit (or Loss) | 937,457 | | | 937,457 |
| | | | | | |

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 |
| | | | | | | (a) | (b) | (c) |
| 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 | | | Town Line | | | | |
| 33 | | | | | | | | |
| 34 | | | | | | | | |
| 35 | | | | | | | | |
| 36 | | | | | | | | |
| 37 | | | | | | | | |
| 38 | | | | | | | | |
| 39 | | | | | | | | |
| 40 | | | | | | | | |
| 41 | | | | | | | | |
| 42 | | | | | | | | |
| | TOTALS | | | | | 235,408 | | |

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 | 295,867 | 633,395 | 40,462 | 30,685 | 704,542 | 2.3813 | 1 |
| 60 Minute | 115,000 | 13,736,846 | 1,888,082 | 247,118 | 58,045 | 2,193,245 | 0.1597 | 2 |
| 60 Minute | 115,000 | 2,363,444 | 57,480 | 11,395 | 160 | 69,035 | 0.0292 | 3 |
| 60 Minute | 115,000 | 21,282,711 | 713,756 | 133,356 | 24,511 | 871,624 | 0.0410 | 4 |
| 60 Minute | 115,000 | 15,175,704 | 514,046 | 95,045 | 17,469 | 626,561 | 0.0413 | 5 |
| 60 Minute | 115,000 | 53,668,306 | 1,245,008 | 258,746 | 3,642 | 1,507,396 | 0.0281 | 6 |
| 60 Minute | 115,000 | 6,619,728 | 156,284 | 31,915 | 449 | 188,648 | 0.0285 | 7 |
| 60 Minute | 115,000 | 32,746,561 | (14,974) | 161,113 | 242,260 | 388,400 | 0.0119 | 8 |
| 60 Minute | 115,000 | 6,755,932 | 1,371,564 | 264,600 | 0 | 1,636,164 | 0.2422 | 9 |
| 60 Minute | 115,000 | 0 | 50,024 | 0 | 260,797 | 310,821 | 0.0000 | 10 |
| 60 Minute | 115,000 | 344,797,190 | 0 | 13,851,338 | 0 | 13,851,338 | 0.0402 | 11 |
| 60 Minute | 115,000 | 0 | 560,031 | 0 | 0 | 560,031 | 0.0000 | 12 |
| 60 Minute | 115,000 | 96,753,600 | 0 | 3,745,773 | 0 | 3,745,773 | 0.0387 | 13 |
| 60 Minute | 115,000 | 0 | 12,369 | 0 | 0 | 12,369 | 0.0000 | 14 |
| 60 Minute | 115,000 | 0 | 55,433 | 0 | 0 | 55,433 | 0.0000 | 15 |
| 60 Minute | 115,000 | 0 | (506,680) | 0 | 0 | (506,680) | 0.0000 | 16 |
| 60 Minute | 115,000 | 0 | 0 | 0 | 0 | 0 | 0.0000 | 17 |
| 60 Minute | 115,000 | 0 | 11,445,444 | 694,901 | 13,378,873 | 25,519,218 | 0.0000 | 18 |
| 60 Minute | 115,000 | (2,211,714) | 0 | (115,485) | 0 | (115,485) | 0.0522 | 19 |
| 60 Minute | 115,000 | 1,635,993 | 0 | 123,579 | 0 | 123,579 | 0.0755 | 20 |
| 60 Minute | 115,000 | 2,462,935 | 0 | 184,720 | 0 | 184,720 | 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 | 57,148,630 | 0 | 3,847,679 | 0 | 3,847,679 | 0.0673 | 25 |
| 60 Minute | 115,000 | 0 | 0 | 0 | 0 | 0 | 0.0000 | 26 |
| 60 Minute | 115,000 | 0 | 0 | 0 | 0 | 0 | 0.0000 | 27 |
| 60 Minute | 115,000 | 14,538,987 | 0 | 711,924 | 0 | 711,924 | 0.0490 | 28 |
| 60 Minute | 115,000 | 7,597,816 | 0 | 573,166 | 0 | 573,166 | 0.0754 | 29 |
| 60 Minute | 115,000 | 2,316,683 | 0 | 172,420 | 0 | 172,420 | 0.0744 | 30 |
| 60 Minute | 115,000 | 171,034 | 0 | 26,354 | 0 | 26,354 | 0.1541 | 31 |
| | | | | | | | | 32 |
| | | | | | | | | 33 |
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| | | | | | | | | 39 |
| | | | | | | | | 40 |
| | | | | | | | | 41 |
| TOTALS | | 677,856,253 | 18,181,263 | 25,060,119 | 14,016,892 | 57,258,274 | 0.0845 | 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 | -2,211,714 | | -2,211,714 | -115,485 |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
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| 11 | | | | | | | | |
| 12 | | | | TOTALS | -2,211,714 | 0 | -2,211,714 | -115,485 |

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 | (2,211,714) |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | TOTALS |
| | | | | -2,211,714 |

ELECTRIC ENERGY ACCOUNT

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

| Line No. | Item (a) | Kilowatt-hours (b) |
|------------------------------|--|--------------------|
| SOURCES OF ENERGY | | |
| 1 | Generation (excluding station use): | |
| 2 | Steam..... | |
| 3 | Nuclear..... | |
| 4 | Hydro..... | |
| 5 | Other..... | |
| 6 | Total generation..... | |
| 7 | Purchases..... | 680,067,967 |
| 8 | { In (gross) | 0 |
| 9 | { Out (gross) | (2,211,714) |
| 10 | { Net (Kwh)..... | (2,211,714) |
| 11 | { Received..... | |
| 12 | Transmission for/by others (Wheeling.....) | |
| 13 | { Delivered..... | |
| 14 | { Net (kwh)..... | |
| 15 | TOTAL | 677,856,253 |
| DISPOSITION OF ENERGY | | |
| 16 | Sales to ultimate consumers (including interdepartmental sales)..... | 646,849,624 |
| 17 | Sales for resale..... | 4,330,280 |
| 18 | Energy furnished without charge | |
| 19 | Energy used by the company (excluding station use)..... | 558,600 |
| 20 | Electric department only..... | |
| 21 | Energy losses: | |
| 22 | Transmission and conversion losses..... | 26,117,749 |
| 23 | Distribution losses..... | |
| 24 | Unaccounted for losses..... | 0 |
| 25 | Total energy losses..... | 26,117,749 |
| 26 | Energy losses as percent of total on line 15..... | 3.85% |
| 27 | Losses within RMLD system..... | 0.00% |
| 28 | TOTAL | 677,856,253 |

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 | 93,346 | Wednesday | 22 | 1800 | Integrated | 59,676,020 |
| 30 | February | 88,491 | Monday | 10 | 1800 | Integrated | 51,066,407 |
| 31 | March | 88,525 | Monday | 23 | 1400 | Integrated | 51,459,086 |
| 32 | April | 85,440 | Thursday | 9 | 1400 | Integrated | 47,642,276 |
| 33 | May | 116,950 | Friday | 29 | 1400 | Integrated | 50,871,375 |
| 34 | June | 142,414 | Tuesday | 23 | 1400 | Integrated | 60,966,932 |
| 35 | July | 163,970 | Tuesday | 28 | 1400 | Integrated | 72,800,153 |
| 36 | August | 156,746 | Tuesday | 11 | 1400 | Integrated | 72,773,651 |
| 37 | September | 123,714 | Thursday | 10 | 1400 | Integrated | 53,594,610 |
| 38 | October | 90,744 | Friday | 30 | 1400 | Integrated | 49,840,324 |
| 39 | November | 90,242 | Wednesday | 18 | 1700 | Integrated | 50,117,750 |
| 40 | December | 101,461 | Wednesday | 16 | 1800 | Integrated | 57,047,669 |
| 41 | TOTAL | | | | | | 677,856,253 |

TRANSMISSION LINE STATISTICS

Reposrt information concerning transmission lines as indicated below.

| Line No. | Designation | | Operating Voltage (c) | Type of Supporting Structure (d) | Length (Pole Miles) | | Number of Circuits (g) | Size of Conductor and Material (h) |
|----------|---------------|--------------|-----------------------|----------------------------------|--------------------------------------|-----------------------------------|------------------------|------------------------------------|
| | From (a) | To (b) | | | On Structures of Line Designated (e) | On Structures of Another Line (f) | | |
| 1 | Woburn/ | Causeway Rd. | 115 kV | Single Wood Poles | .4458 Miles | No | 1.00 | 795 MCM ALL ALUM |
| 2 | Reading | Reading | | | 2,354 feet | | | |
| 3 | 211-503 | | | | | | | |
| 4 | | | | | | | | |
| 5 | Woburn/ | Causeway Rd. | 115 kV | Single Wood Poles | .4100 Miles | No | 1.00 | 795 MCM ALL ALUM |
| 6 | Reading | Reading | | | 2,165 feet | | | |
| 7 | 211-504 | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
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| 46 | | | | | | | | |
| 47 | TOTALS | | | | | | | |

* 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 | 351.84 | 0.00 | 351.84 |
| 2 | Added During Year | 29.51 | | 29.51 |
| 3 | Retired During Year | 0.00 | | 0.00 |
| 4 | Miles - End of Year | 381.35 | 0.00 | 381.35 |
| 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..... | 30,659 | 31,680 | 4,582 | 320,408 |
| 17 | Additions during year: | | | | |
| 18 | Purchased..... | | 48 | 241 | 27,500 |
| 19 | Installed..... | 52 | | | |
| 20 | Associated with Utility Plant Acquired..... | | | | |
| 21 | Total additions..... | 52 | 48 | 241 | 27,500 |
| 22 | Reduction During Year: | | | | |
| 23 | Retirements..... | 64 | 321 | 231 | 18,146 |
| 24 | Associated with Utility Plant Sold..... | | | | |
| 25 | Total Reductions..... | 64 | 321 | 231 | 18,146 |
| 26 | Number at End of Year..... | 30,647 | 31,407 | 4,592 | 329,763 |
| 27 | In Stock..... | | 760 | 0 | 0 |
| 28 | Locked Meters on Customers' Premises..... | | | | |
| 29 | Inactive Transformers on System..... | | | | |
| 30 | In Customers' Use..... | | 30,647 | | |
| 31 | In Company's Use..... | | | | |
| 32 | Number at End of Year..... | | 31,407 | 4,592 | 329,763 |

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 | | 156.5 miles | 48.4 miles | 13.8 kv | | |
| 3 | | | .3 miles | 34.5 kv | | |
| 4 | | | 103.8 miles | 7.97 kv | | |
| 5 | | | 0.8 miles | 2.4 kv | | |
| 6 | | | 1.4 miles | 240 kv | | |
| 7 | | | 1.8 miles | 4.16 kv | | |
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| 32 | | | | | | |
| 33 | | | | | | |
| 34 | | TOTALS | | | | |

*Indicate number of conductors per cable.

STREET LAMPS CONNECTED TO SYSTEM

| Line No. | City or Town (a) | Total (b) | TYPE | | | | | | | |
|----------|---------------------|--------------|------------------|--------------|------------------|--------------|-------------------|--------------|--------------------|--------------|
| | | | Incandescent | | Mercury Vapor | | Fluorescent / LED | | High Press. Sodium | |
| | | | Municipal (c) | Other (d) | Municipal (e) | Other (f) | Municipal (g) | Other (h) | Municipal (i) | Other (j) |
| 1 | Reading | 2,601 | 0 | 0 | 0 | 0 | 2,586 | 0 | 15 | 0 |
| 2 | Lynnfield | 826 | 0 | 0 | 0 | 0 | 825 | 0 | 1 | 0 |
| 3 | North Reading | 2,040 | 0 | 0 | 0 | 0 | 2,027 | 0 | 13 | 0 |
| 4 | Wilmington | 2,974 | 0 | 0 | 1 | 0 | 2,969 | 0 | 4 | 0 |
| 5 | | | | | | | | | | |
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| 50 | | | | | | | | | | |
| 51 | | | | | | | | | | |
| 52 | TOTALS | 8,441 | 0 | 0 | 1 | 0 | 8,407 | 0 | 33 | 0 |

RATE SCHEDULE INFORMATION

1. Attach copies of all Filed Rates for General Consumers.
2. Show below the changes in rate schedules during year and the estimated increase or decrease in annual 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 (Jul 20, 2021 17:37 EDT)

..... *Manager of Electric Light*

Coleen M. O'Brien, General Manager


Robert Coulter's (Jul 21, 2021 08:15 EDT)

..... *Selectmen*

Robert Coulter, Chair


Philip B Pacino (Jul 21, 2021 10:49 EDT)

..... *or*

Philip B. Pacino, Vice Chair


john stempeck (Jul 21, 2021 14:12 EDT)

..... *Members*

John Stempeck


David Talbot (Jul 22, 2021 15:08 EDT)

..... *of the Municipal*

David Talbot

..... *Light Board*

Marlena Bitá

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

Middlesex ss

7/20/2021

Then personally appeared.....

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

*Notary Public or
Justice of the Peace*












DPU CY20 FINAL signed


Final Audit Report


2021-07-22


| | |
|-----------------|--|
| Created: | 2021-07-20 |
| By: | Wendy Markiewicz (wmarkiewicz@rml.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAAwHGogm8ptorXCnriFU1O56K82sWCpCev |


"DPU CY20 FINAL signed" History


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