

Accountants Compilation Report

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letter to be inserted here before the  
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Letter on File

Dated September 17, 2023

for

For Year Ended December 31, 2022

**The Commonwealth of Massachusetts**

**Return**

**of the**

**Municipal Light Department of**

**the Town of Marblehead**

**to the**

**Department of Public Utilities**

**of Massachusetts**

**For Year Ended December 31, 2022**

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

Official title: **General Manager**

**Joseph T. Kowalik**  
Office address **P.O. Box 369**  
**80 Commercial Street**  
**Marblehead, MA 01945**

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## GENERAL INFORMATION

1. Name of town (or city) making report.	Marblehead
2. If the town (or city) has acquired a plant: Kind of plant, whether gas or electric. Owner from whom purchased, if so acquired. Date of votes to acquire a plant in accordance with the provisions of chapter 164 of the General Laws. Record of votes: First vote: Yes, ; No, Second vote: Yes, ; No, Date when town (or city) began to sell gas and electricity,	
3. Name and address of manager of municipal lighting:	
Joseph T. Kowalik	80 Commercial Stree Marblehead, MA 01945
4. Name and address of mayor or selectmen:	
M.C. Moses Grader	Abbot Hall, 188 West Marblehead, MA 01945
Bret Murray	Abbot Hall, 188 West Marblehead, MA 01945
Erin Noonan, Chair	Abbot Hall, 188 West Marblehead, MA 01945
James Nye	Abbot Hall, 188 West Marblehead, MA 01945
Alexa Singer	Abbot Hall, 188 West Marblehead, MA 01945
5. Name and address of town (or city) treasurer:	
Rachel Blaisdell	7 Widger Road Marblehead, MA 01945
6. Name and address of town (or city) clerk:	
Robin A. Michaud	Abbot Hall, 188 West Marblehead, MA 01945
7. Names and addresses of members of municipal light board:	
Michael A. Hull	80 Commercial Stree Marblehead, MA 01945
Simon Frechette	80 Commercial Stree Marblehead, MA 01945
Jean-Jacques Yarmoff	80 Commercial Stree Marblehead, MA 01945
Adam smith	80 Commercial Stree Marblehead, MA 01945
Lisa Wolf, Chair	80 Commercial Stree Marblehead, MA 01945
8. Total valuation of estates in town (or city) according to last State valuation (taxable)	\$7,420,385,805
9. Tax rate for all purposes during the year:	
	Residential \$10.00
	Open Space \$0.00
	Commercial/Industrial/Personal Property \$10.00
10. Amount of manager's salary:	\$196,647.00
11. Amount of manager's bond:	\$0.00
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.

		Amount
<b>INCOME FROM PRIVATE CONSUMERS:</b>		
1	From sales of gas	
2	From sales of electricity	23,326,000.00
3		
4		
	<b>TOTAL</b>	<b>23,326,000.00</b>
<b>EXPENSES</b>		
6	For operation, maintenance and repairs	21,218,000.00
7	For interest on bonds, notes or scrip	
8	For depreciation fund ( 5% on 42,162,731.00 as per page 8 B )	2,108,000.00
9	For sinking fund requirements	
10	For note payments	
11	For bond payments	
12	For loss in preceding year	
13		
	<b>TOTAL</b>	<b>23,326,000.00</b>
<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	1,378,481.00
19	Of electricity to be used for street lights	65,000.00
20	Total of above items to be included in the tax levy	1,443,481.00
21		
22	New construction to be included in the tax levy	
23	Total amounts to be included in the tax levy	1,443,481.00

**CUSTOMERS**

Names of cities or towns in which the plant supplies GAS, with the number of customers' meters in each.		Names of cities or 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
NONE		Marblehead	10,299
<b>TOTAL</b>	0	<b>TOTAL</b>	10,299

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, to be paid from \*\*  
\*At meeting, to be paid from \*\*

TOTAL 0.00

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

- 1. Street lights 141,175.01
- 2. Municipal buildings 1,061,369.80
- 3.

TOTAL 1,202,544.81

\* Date of meeting and whether regular or special \*\* Here insert bonds, notes or tax levy

**CHANGES IN THE PROPERTY**

1.

\*

\*

\*

\*

\*

\*

\*

\*

In gas property: Not applicable

Bonds (Issued on Account of Gas or Electric Lighting.)							
When Authorized*	Date of Issue	Amount of Original Issue **	Period of Payments		Interest		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
03/04/1894	07/01/1894	50,000.00					
03/03/1908	07/01/1908	6,000.00					
10/29/1909	11/01/1909	30,000.00					
03/15/1973	11/15/1973	760,000.00	75,000.00	November 15	4.4	May 15 & Nov 15	NONE
03/03/1974	01/01/1975	477,891.00		Initial MMWEC Bonding -		Transferred to MMWEC	July 1978
	TOTAL	1,323,891.00				TOTAL	NONE

The bonds and notes outstanding at end of year should agree with the Balance Sheet.

When bond and notes are repaid report the first three columns only

\* Date of meeting and whether regular or special

\*\* List original issues of bonds and notes including those that have been repaid

Town Notes (Issued on Account of Gas or Electric Lighting.)						
When Authorized*	Date of Issue	Amount of Original Issue **	Period of Payments		Interest Rate	Amount Outstanding at End of Year
			Amounts	When Payable		
	06/01/1895	10,000.00				
	12/01/1896	4,000.00				
	01/01/1902	9,500.00				
March 1927	01/02/1928	15,000.00				
March 1937	08/01/1938	38,000.00				
	TOTAL	76,500.00			TOTAL	NONE

The bonds and notes outstanding at end of year should agree with the Balance Sheet.

When bond and notes are repaid report the first three columns only

\* Date of meeting and whether regular or special

\*\* List original issues of bonds and notes including those that have been repaid



<b>TOTAL COST OF PLANT - ELECTRIC</b>							
1. Report below the cost of utility plant in service according to prescribed accounts			effect of such amounts.				
2. Do not include as adjustments, corrections of additions and retirements for the current or the preceding year. Such items should be included in column (c) or (d) as appropriate.			4. Reclassifications or transfers within utility plant accounts should be shown in column (f).				
3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2	303 Misc Intangible Plant - Trans	2,327,602.99					2,327,602.99
3							
4		2,327,602.99	0.00	0.00	0.00	0.00	2,327,602.99
5	2. PRODUCTION PLANT						
6	A. Steam Production						
7	310 Land and Land Rights						
8	311 Structures and Improvements						
9	312 Boiler Plant Equipment						
10	313 Engines and Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	316 Miscellaneous Power Plant Equipment						
14	Total Steam Production Plant	0.00	0.00	0.00	0.00	0.00	0.00
15	B. Nuclear Production Plant						
16	320 Land and Land Rights						
17	321 Structures and Improvements						
18	322 Reactor Plant Equipment						
19	323 Turbogenerator Units						
20	324 Accessory Electric Equipment						
21	325 Miscellaneous Power Plant Equipment						
22	Total Nuclear Production Plant	0.00	0.00	0.00	0.00	0.00	0.00
23							

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	0.00	0.00	0.00	0.00	0.00	0.00
10	D. Other Production Plant						
11	340 Land and Land Rights	10,696.49					10,696.49
12	341 Structures and Improvements	312,769.33					312,769.33
13	342 Fuel Holders, Producers and Accessories	62,164.53					62,164.53
14	343 Prime Movers	1,569,991.41	3,706.38				1,573,697.79
15	344 Generators	668,569.10					668,569.10
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	2,624,190.86	3,706.38	0.00	0.00	0.00	2,627,897.24
19	Total Production Plant	2,624,190.86	3,706.38	0.00	0.00	0.00	2,627,897.24
20	3. Transmission Plant						
21	350 Land and Land Rights	40,900.00					40,900.00
22	351 Clearing Land and Rights of Way	1,851.50					1,851.50
23	352 Structures and Improvements	42,849.54					42,849.54
24	353 Station Equipment	35,999.02					35,999.02
25	354 Towers and Fixtures	240.78					240.78
26	355 Poles and Fixtures	55,174.33					55,174.33
27	356 Overhead Conductors and Devices	425,570.20					425,570.20
28	357 Underground Conduit	842,113.32					842,113.32
29	358 Underground Conductors and Devices	290,170.78					290,170.78
30	359 Roads and Trails						
31	Total Transmission Plant	1,734,869.47	0.00	0.00	0.00	0.00	1,734,869.47

TOTAL COST OF PLANT (Concluded)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights	500.00					500.00
3	361 Structures and Improvements	1,058,690.30					1,058,690.30
4	362 Station Equipment	5,460,959.46	11,169.62				5,472,129.08
5	363 Storage Battery Equipment	69,905.79	16,889.71				86,795.50
6	364 Poles Towers and Fixtures	2,443,512.78	50,247.20	15,017.75			2,478,742.23
7	365 Overhead Conductors and Devices	3,848,410.95	163,837.44	37,465.11			3,974,783.28
8	366 Underground Conduit	2,436,060.85					2,436,060.85
9	367 Underground Conductors and Devices	2,577,080.83	24,037.29	176.61			2,600,941.51
10	368 Line Transformers	1,737,384.40	135,159.20	18,025.54			1,854,518.06
11	369 Services	801,166.27	44,667.46	24,034.99			821,798.74
12	370 Meters	2,917,490.66	24,005.64	22,414.56			2,919,081.74
13	371 Installations on Customer's Premises	78,203.70					78,203.70
14	372 Leased Prop on Customer's Premises						
15	373 Streetlight and Signal Systems						
16	Total Distribution Plant	384,091.54	4,386.35	765.89			387,712.00
17	5. GENERAL PLANT	23,813,457.53	474,399.91	117,900.45	0.00	0.00	24,169,956.99
18	389 Land and Land Rights						
19	390 Structures and Improvements	9,081,457.98	164,825.75				9,246,283.73
20	391 Office Furniture and Equipment	742,528.77	2,654.20				745,182.97
21	392 Transportation Equipment	1,154,050.95	6,036.68	29,956.51			1,130,131.12
22	393 Stores Equipment						
23	394 Tools, Shop and Garage Equipment						
24	395 Laboratory Equipment						
25	396 Power Operated Equipment						
26	397 Communication Equipment	185,483.46	3,286.63				188,770.09
27	398 Miscellaneous Equipment	45,984.39					45,984.39
28	399 Other Tangible Property						
29	Total General Plant	11,209,505.55	176,803.26	29,956.51	0.00	0.00	11,356,352.30
30	Total Electric Plant in Service	41,709,626.40	654,909.55	147,856.96	0.00	0.00	42,216,678.99
31							Total Cost of Electric Plant.....
32							Less Cost of Land, Land Rights, Rights of Way.....
33							Total Cost upon which Depreciation is based .....
34							53,947.99
							42,162,731.00

The above figures should show the original cost of the 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 value, should be taken as a basis for figuring depreciation.

**PAGE 9 IS A NOTE ONLY PAGE**

Note

- 1 **Profit Rate 2022:** **6.6004%**  
 Net Profit ( page 12 Col F Line 47 ) divided by Total Cost of Electric Plant in Service ( page 8B Col J Line 106 )  
 2,786,478.65 42,216,678.99
  
- 2 **Estimated Maximum Profit Allowed for 202:** **3,377,334.32**  
 Total Cost of Electric Plant in Service ( page 8 Col J Line 106 ) X Eight Per Cent
  
- 3 **Depreciation for 2023 at 3 Per Cent:** **1,264,881.93**  
 Total Cost of Electric Plant in Service Less Cost of Land and Land Rights-Of -Way ( page 8 Col J Line 109 ) X Three Per Cent  
 Quarterly Transfer for Depreciation **316,220.48**

**COMPARATIVE BALANCE SHEET Assets and Other Debits**

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	<b>UTILITY PLANT</b>			
2	101 Utility Plant - Electric (P. 17)	16,352,605.69	15,875,451.53	(477,154.16)
3	101 Utility Plant - Gas (P. 20)			
4				
5	Total Utility Plant	16,352,605.69	15,875,451.53	(477,154.16)
6				
7				
8				
9				
10				
11	<b>FUND ACCOUNTS</b>			
12	125 Sinking Funds			
13	126 Depreciation Fund (P. 14)	9,614,060.92	10,220,543.40	606,482.48
14	128 Other Special Funds	2,476,270.03	2,451,517.54	(24,752.49)
15	Total Funds	12,090,330.95	12,672,060.94	581,729.99
16	<b>CURRENT AND ACCRUED ASSETS</b>			
17	131 Cash (P. 14)	6,046,779.06	5,885,483.78	(161,295.28)
18	132 Special Deposits	230,669.50	215,980.50	(14,689.00)
19	135 Working Funds	500.00	500.00	0.00
20	141 Notes Receivable			
21	142 Customer Accounts Receivable	1,762,090.68	2,257,472.06	495,381.38
22	143 Other Accounts Receivable	943,410.90	1,276,067.22	
23	146 Receivables from Municipality	100,453.57	160,346.79	59,893.22
24	151 Materials and Supplies (P. 14)	156,452.27	221,454.61	65,002.34
25	171 Interest & Dividend Receivable	0.00	0.00	0.00
26	165 Prepayments	2,349,398.14	2,412,587.21	63,189.07
27	174 Miscellaneous Current Assets			
28	Total Current and Accrued Assets	11,589,754.12	12,429,892.17	507,481.73
29	<b>DEFERRED DEBITS</b>			
30	181 Unamortized Debt Discount			
31	182 Extraordinary Property Losses			
32	185 Other Deferred Debits			-
33	186 Other - Deferred Inflow Pensions	921,919.00	913,794.00	(8,125.00)
34	186 Other - Deferred Inflow OPEB	961,378.00	922,396.00	(38,982.00)
35	Total Deferred Debits	1,883,297.00	1,836,190.00	(47,107.00)
36				
37	Total Assets and Other Debits	41,915,987.76	42,813,594.64	897,606.88

## COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	<b>APPROPRIATIONS</b>			
2	201 Appropriations for Construction	NONE	NONE	NONE
3	<b>SURPLUS</b>			
4	205 Sinking Fund Reserves			
5	206 Loans Repayment			
6	207 Appropriations for Construction Repayments			
7	208 Unappropriated Earned Surplus (P. 12)	16,959,337.75	19,415,816.40	2,456,478.65
8	229 Reserve for Rate Stabilization	900,000.00	900,000.00	
9	229-1 MMWEC Reserve Trust	537,204.70	511,416.37	
10	Total Surplus	18,396,542.45	20,827,232.77	2,430,690.32
11	<b>LONG TERM DEBT</b>			
12	221 Bonds (P. 6)	4,297,095.37	4,004,114.29	(292,981.08)
13	231 Notes Payable (P. 7)			
14	Total Bonds and Notes	4,297,095.37	4,004,114.29	NONE
15	<b>CURRENT AND ACCRUED LIABILITIES</b>			
16	232 Accounts Payable	1,903,106.06	1,959,015.31	55,909.25
17	232 Pension Liability	6,368,556.00	4,361,809.00	
18	265 OPEB Liability	6,364,651.00	3,706,188.00	
19	234 Payables to Municipality (Water)			
20	235 Customers' Deposits	225,869.50	214,980.50	(10,889.00)
21	236 Taxes Accrued			
22	237 Interest Accrued			
23	242 Miscellaneous Current and Accrued Liabilities			
24	Total Current and Accrued Liabilities	14,862,182.56	10,241,992.81	(4,620,189.75)
25	<b>DEFERRED CREDITS</b>			
26	251 Unamortized Premium on Debt			
27	232 Other - Deferred Inflow Pensions	977,501.00	2,461,568.00	1484067
28	232 Other - Deferred Inflow OPEB	2,681,858.00	4,569,006.00	1887148
29	Total Deferred Credits	3,659,359.00	7,030,574.00	3,371,215.00
30	<b>RESERVES</b>			
31	260 Reserves for Uncollectible Accounts	405,051.57	383,087.07	(21,964.50)
32	261 Property Insurance Reserve			
33	262 Injuries and Damages Reserves			
34	263 Pensions and Benefits Reserves	95,797.35	100,170.49	4,373.14
35	265 Miscellaneous Operating Reserves	0.00	0.00	0.00
36	Total Reserves	500,848.92	483,257.56	(17,591.36)
37	<b>CONTRIBUTIONS IN AID OF</b>			
38	<b>CONSTRUCTION</b>			
39	271 Contributions in Aid of Construction	199,959.46	226,423.21	26,463.75
40	Total Liabilities and Other Credits	41,915,987.76	42,813,594.64	897,606.88

State below if any earning 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 (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>OPERATING INCOME</b>		
2	400 Operating Revenues (P. 37 and 43)	20,184,229.90	2,246,474.67
3	Operating Expenses:		
4	401 Operation Expense (p. 42 and 47)	14,284,867.23	1,252,441.65
5	402 Maintenance Expense	1,717,601.12	293,078.20
6	403 Depreciation Expense	1,242,914.65	(808,873.01)
7	407 Amortization of Property Losses		
8			
9	408 Taxes (P. 49)		
10	Total Operating Expenses	17,245,383.00	736,646.84
11	Operating Income	2,938,846.90	1,509,827.83
12	414 Other Utility Operating Income (P. 50)		
13			
14	Total Operating Income	2,938,846.90	1,509,827.83
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	-	-
17	419 Interest Income	(17,589.96)	(25,846.99)
18	421 Miscellaneous Nonoperating Income (P. 21)		
19	Total Other Income	(17,589.96)	(25,846.99)
20	Total Income	2,921,256.94	1,483,980.84
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization		
23	426 Other Income Deductions	-	-
24	Total Income Deductions	-	-
25	Income Before Interest Charges	2,921,256.94	1,483,980.84
26	<b>INTEREST CHARGES</b>		
27	427 Interest on Bonds and Notes	134,778.29	(9,319.76)
28	428 Amortization of Debt Discount and Expense		
29	429 Amortization of Premium on Debt - Credit		
30	431 Other Interest Expense		
31	432 Interest: Charged to Construction - Credit		
32	Total Interest Charges	134,778.29	(9,319.76)
33	<b>NET INCOME</b>	2,786,478.65	1,493,300.60
<b>EARNED SURPLUS</b>			
Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period)		16,959,337.75
35			
36			
37	433 Balance Transferred from Income		2,786,478.65
38	434 Miscellaneous Credits to Surplus (P. 21)		0.00
39	435 Miscellaneous Debits to Surplus (P. 21)		-
40	436 Appropriations of Surplus (P. 21)	330,000.00	
41	437 Surplus Applied to Depreciation		
42	208 Unappropriated Earned Surplus (at enc	19,415,816.40	
43			
44	<b>TOTALS</b>	19,745,816.40	19,745,816.40

Line No.	Items (a)	Amount (b)
1	Operation Fund	5,866,574.90
2	Interest Fund	
3	Bond Fund	
4	Construction Fund	18,908.88
5		
6		
7		
8		
9		
10		
11		
12	<b>TOTAL</b>	<b>5,885,483.78</b>

**MATERIALS AND SUPPLIES (Accounts 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)	52,827.21	
14	Fuel Stock Expenses (Account 152)		
15	Residuals (Account 153)		
16	Plant Materials and Operating Supplies (Account 154 (151))	168,627.40	
17	Merchandise (Account 155)		
18	Other Materials and Supplies (Account 156)		
19	Nuclear Fuel Assemblies and Components - In Reactor (Account 157)		
20	Nuclear Fuel Assemblies and Components - Stock Account (Account 158)		
21	Nuclear Byproduct Materials (Account 159)		
22	Stores Expense (Account 163)		
23	Total Per Balance Sheet	221,454.61	

**DEPRECIATION FUND ACCOUNT (Account 126)**

Line No.	(a)	Amount (b)
24	<b>DEBITS</b>	
25	Balance of account at beginning of year	9,614,060.92
26	Income during year from balance on deposit (interest)	3,242.01
27	Amount transferred from income (depreciation)	1,249,670.40
28	Adjustment: Accounts Payable 12/31/2022	20,016.90
29	Y/E Transfer From Operating Cash	-
30	Construction in progress Brown	-
31	<b>TOTAL</b>	<b>10,886,990.23</b>
32	<b>CREDITS</b>	
33	Amount expended for construction purposes (Sec. 57,C.164 of G.L.)	
34	Amounts expended for renewals,viz:-	654,909.55
35	Adjustment: Accounts Payable 12/31/2121	11,537.28
36		
37		
38		
39		
40		
41	Balance on hand at end of year	10,220,543.40
42	<b>TOTAL</b>	<b>10,886,990.23</b>



Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2	303 Misc Intangible Plant Transmission						0.00
3							
4		-	0.00	-	0.00	0.00	0.00
5	2. PRODUCTION PLANT						
6	A. Steam Production						
7	310 Land and Land Rights						
8	311 Structures and Improvements						
9	312 Boiler Plant Equipment						
10	313 Engines and Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	316 Miscellaneous Power Plant Equipment						
14	Total Steam Production Plant	0.00	0.00	0.00	0.00	0.00	0.00
15	B. Nuclear Production Plant						
16	320 Land and Land Rights						
17	321 Structures and Improvements						
18	322 Reactor Plant Equipment						
19	323 Turbogenerator Units						
20	324 Accessory Electric Equipment						
21	325 Miscellaneous Power Plant Equipment						
22	Total Nuclear Production Plant	0.00	0.00	0.00	0.00	0.00	0.00
23							

1. Report below the cost of utility plant in service according to prescribed accounts

2. Do not include as adjustments, corrections of additions and retirements for the current or the preceding year. Such items should be included in column (c).

3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative effect of such amounts.

4. Reclassifications or transfers within utility plant accounts should be shown in column (f).

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	0.00	0.00	0.00	0.00	0.00	0.00
10	D. Other Production Plant						
11	340 Land and Land Rights	10,696.49					10,696.49
12	341 Structures and Improvements	0.00					0.00
13	342 Fuel Holders, Producers and Accessories	0.00					0.00
14	343 Prime Movers	1,048,348.33	3,706.38	47,099.74			1,004,954.97
15	344 Generators	0.00					0.00
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	1,059,044.82	3,706.38	47,099.74	0.00	0.00	1,015,651.46
19	Total Production Plant	1,059,044.82	3,706.38	47,099.74	0.00	0.00	1,015,651.46
20	3. Transmission Plant						
21	350 Land and Land Rights	40,900.00					40,900.00
22	351 Clearing Land and Rights of Way	1,851.50					1,851.50
23	352 Structures and Improvements	0.00					-
24	353 Station Equipment	0.00					0.00
25	354 Towers and Fixtures	0.00					-
26	355 Poles and Fixtures	0.00					0.00
27	356 Overhead Conductors and Devices						
28	357 Underground Conduit	-					-
29	358 Underground Conductors and Devices	65,141.71		25,263.40			39,878.31
30	359 Roads and Trails	(0.00)					(0.00)
31	Total Transmission Plant	107,893.21	0.00	25,263.40	0.00	0.00	82,629.81

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	500.00					500.00
3	361 Structures and Improvements	309,195.39		31,760.71			277,434.68
4	362 Station Equipment	918,441.73	11,169.62	184,031.06			745,580.29
5	363 Storage Battery Equipment	34,782.79	16,889.71	2,097.17			49,575.33
6	364 Poles Towers and Fixtures	111,530.42	50,247.20	82,344.91			79,432.71
7	365 Overhead Conductors and Devices	1,935,782.18	163,837.44	129,689.14			1,969,930.48
8	366 Underground Conduit	239,049.50		82,093.79			156,955.71
9	367 Underground Conductors and Devices	328,152.16	24,037.29	86,846.08			265,343.37
10	368 Line Transformers	796,054.43	135,159.20	52,121.53			879,092.10
11	369 Services	375,166.05	44,667.46	24,034.99			395,798.52
12	370 Meters	1,996,284.09	24,005.64	98,317.68			1,921,972.05
13	371 Installations on Customer's Premises	-					-
14	372 Leased Prop on Customer's Premises						
15	373 Streetlight and Signal Systems	372,059.61	4,386.35	11,522.75			364,923.21
16	Total Distribution Plant	7,416,998.35	474,399.91	784,859.81	0.00	0.00	7,106,538.45
17	5. GENERAL PLANT						
18	389 Land and Land Rights						
19	390 Structures and Improvements	7,587,135.63	164,825.75	272,443.74			7,479,517.64
20	391 Office Furniture and Equipment	0.00	2,654.20				2,654.20
21	392 Transportation Equipment	135,785.25	6,036.68	115,405.27			26,416.66
22	393 Stores Equipment						
23	394 Tools, Shop and Garage Equipment						
24	395 Laboratory Equipment						
25	396 Power Operated Equipment						
26	397 Communication Equipment	0.00	3,286.63				3,286.63
27	398 Miscellaneous Equipment	45,748.43		4,598.44			41,149.99
28	399 Other Tangible Property						
29	Total General Plant	7,768,669.31	176,803.26	392,447.45	0.00	0.00	7,553,025.12
30	Total Electric Plant in Service	16,352,605.69	654,909.55	1,249,670.40	0.00	0.00	15,757,844.84
31	104 Utility Plant Leased to Others						
32	105 Property Held for Future Use						
33	107 Construction Work in Progress	0.00	117,606.69				117,606.69
34	Total Utility Plant Electric	16,352,605.69	772,516.24	1,249,670.40	0.00	0.00	15,875,451.53

(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)
1	On Hand Beginning of Year	21,350.50	9,677.50		
2	Received During Year	52,906.02	13,002.00		
3	TOTAL	74,256.52	22,679.50		
4	Used During Year (Note A)				
5	For Heating	0.00	0.00		
6	For Generation	21,429.31	10,331.50		
7					
8					
9					
10					
11	Sold or Transferred				
12	TOTAL DISPOSED OF	21,429.31	10,331.50		
13	BALANCE END OF YEAR	52,827.21	12,348.00		
Kinds of Fuel and Oil - continued					
Line No.	Item (g)	Quantity (h)	Cost (i)	Quantity (j)	Cost (k)
14	On Hand Beginning of Year				
15	Received During Year				
16	TOTAL				
17	Used During Year (Note A)				
18					
19					
20					
21					
22					
23					
24	Sold or Transferred				
25	TOTAL DISPOSED OF				
26	BALANCE END OF YEAR				

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

ok

<b>MISCELLANEOUS NONOPERATING INCOME (Account 421)</b>		
Line No.	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6	<b>TOTAL</b>	0.00
<b>OTHER INCOME DEDUCTIONS (Account 426)</b>		
Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14	<b>TOTAL</b>	0.00
<b>MISCELLANEOUS CREDITS TO SURPLUS (Account 434)</b>		
Line No.	Item (a)	Amount (b)
15		
16		
17		
18		
19		
20		
21		
22		
23	<b>TOTAL</b>	0.00
<b>MISCELLANEOUS DEBITS TO SURPLUS (Account 435)</b>		
Line No.	Item (a)	Amount (b)
24		
25		
26		
27		
28		
29		
30		
31		
32	<b>TOTAL</b>	0.00
<b>APPROPRIATIONS OF SURPLUS (Account 436)</b>		
Line No.	Item (a)	Amount (b)
33		
34	June 7, 2022 Commission voted In Lieu of Tax Payment - Town of Marblehead	330,000.00
35		
36		
37		
38		
39		
40	<b>TOTAL</b>	330,000.00

ok

**MUNICIPAL REVENUES (Account 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 MCF (cents) (0.0000) (d)
1		Not Applicable			
2					
3					
4			<b>TOTALS</b>		
		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue Per KWH (cents) (0.0000) (d)
5	444	Municipal	5,714,073	1,061,369.80	0.1857
6					
7		Street Lighting	875,439	141,175.01	0.1613
8					
9					
10					
11					
12		<b>TOTALS</b>	6,589,512	1,202,544.81	0.1825
13					
14					
15					
16					
17					
18		<b>TOTALS</b>	0	0.00	
19		<b>TOTALS</b>	6,589,512	1,202,544.81	0.1825

**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 KWH (cents) (0.0000) (e)
20	See Pages 54 & 55				
21					
22					
23					
24					
25					
26					
27					
28					
29			<b>TOTALS</b>	0	0.00

**SALES FOR RESALE (Account 447)**

Line No.	Names of Utilities to Which Electric Energy is sold (a)	Where and at What Voltage Delivered (b)	K.W.H (c)	Amount (d)	Revenue per KWH (cents) (0.0000) (e)
30	See Pages 52 & 53				
31					
32					
33					
34					
35					
36					
37					
38					
39			<b>TOTALS</b>	0	0.00



**SALES OF ELECTRICITY TO ULTIMATE CONSUMERS**

Report by account number the K.W.H. sold, the amount derived and the number of customers under each filed schedule or contract. Municipal sales, contract 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 KWH (cents) (0.0000) (d)	Number of Customers (per Bills rendered)	
						July 31 (e)	Dec 31 (f)
1	4	Residential	72,791,796	14,679,320.08	0.2017	8,919	8,882
2	13	Storage Heat	55,576	8,917.40	0.1605	9	9
3	5	Commercial	10,263,690	2,155,126.64	0.2100	1,259	1,260
4	6	Industrial	10,636,772	1,916,005.70	0.1801	56	57
5	9	Private Area St Lighting	135,537	32,592.10	0.2405	83	83
6	10	Hot Water	214,414	37,214.38	0.1736	88	85
7	3	Off Peak	1,231	292.93	0.2380	1	1
8	M	Municipal	5,714,073	1,061,369.80	0.1857	89	87
9	SL	Street Lighting	875,439	141,175.01	0.1613	1	1
10	EV	EV Charging	18,829	3,765.75	0.2000	3	3
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL SALES TO ULTIMATE CONSUMERS (page 37 Line 11)			100,707,357	20,035,779.79	0.1990	10,508	10,468



**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 derived 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 EXPENSES</b>		
2	<b>STEAM POWER GENERATION</b>		
3	Operation:		
4	500 Operation supervision and engineering		
5	501 Fuel		
6	502 Steam Expenses		
7	503 Steam from other sources		
8	504 Steam transferred -- Cr.		
9	505 Electric expenses		
10	506 Miscellaneous steam power expenses		
11	507 Rents		
12	Total Operation	0.00	0.00
13	Maintenance:		
14	510 Maintenance supervision and engineering		
15	511 Maintenance of Structures		
16	512 Maintenance of boiler plant		
17	513 Maintenance of electric plant		
18	514 Maintenance of miscellaneous steam plant		
19	Total Maintenance	0.00	0.00
20	Total power production expenses -steam power	0.00	0.00
21	<b>NUCLEAR POWER GENERATION</b>		
22	Operation:		
23	517 Operation supervision and engineering		
24	518 Fuel		
25	519 Coolants and water		
26	520 Steam Expenses		
27	521 Steam from other sources		
28	522 Steam transferred -- Cr.		
29	523 Electric expenses		
30	524 Miscellaneous nuclear power expenses		
31	525 Rents		
32	Total Operation	0.00	0.00
33	Maintenance:		
34	528 Maintenance supervision and engineering		
35	529 Maintenance of Structures		
36	530 Maintenance of reactor plant		
37	531 Maintenance of electric plant		
38	532 Maintenance of miscellaneous nuclear plant		
39	Total Maintenance	0.00	0.00
40	Total power production expenses -nuclear power	0.00	0.00
41	<b>HYDRAULIC POWER GENERATION</b>		
42	Operation:		
43	535 Operation supervision and engineering		
44	536 Water for power		
45	537 Hydraulic expenses		
46	538 Electric expenses		
47	539 Miscellaneous hydraulic power generation expenses		
48	540 Rents		
49	Total Operation	0.00	0.00

<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued</b>			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>HYDRAULIC POWER GENERATION - Continued</b>		
2	Maintenance:		
3	541 Maintenance Supervision and engineering		
4	542 Maintenance of structures		
5	543 Maintenance or reservoirs, dams and waterways		
6	544 Maintenance of electric plant		
7	545 Maintenance of miscellaneous hydraulic plant		
8	Total maintenance	NONE	NONE
9	Total power production expenses - hydraulic power	NONE	NONE
10	<b>OTHER POWER GENERATION</b>		
11	Operation:		
12	546 Operation supervision and engineering		
13	547 Fuel	21,485.61	18,729.37
14	548 Generation Expenses	0.00	-
15	549 Miscellaneous other power generation expense	1,918.01	(2,639.42)
16	550 Rents		
17	Total Operation	23,403.62	16,089.95
18	Maintenance:		
19	551 Maintenance supervision and engineering		
20	552 Maintenance of Structures		
21	553 Maintenance of generating and electric plant		
22	554 Maintenance of miscellaneous other power generation	122,314.11	9,091.42
23	Total Maintenance	122,314.11	9,091.42
24	Total power production expenses - other power	145,717.73	25,181.37
25	<b>OTHER POWER SUPPLY EXPENSES</b>		
26	555 Purchased power	9,669,447.77	1,952,460.09
27	556 System control and load dispatching		
28	557 Other expenses	2,762,390.26	(9,235.42)
29	Total other power supply expenses	12,431,838.03	1,943,224.67
30	Total power production expenses	12,577,555.76	1,968,406.04
31	<b>TRANSMISSION EXPENSES</b>		
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		
39	566 Miscellaneous transmission expenses		
40	567 Rents		
41	Total Operation	NONE	NONE
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	0.00	0.00
47	572 Maintenance of underground lines		
48	573 Maintenance of miscellaneous transmission plant		
49	Total maintenance	0.00	0.00
50	Total transmission expenses	0.00	0.00

<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued</b>			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>DISTRIBUTION EXPENSES</b>		
2	Operation:		
3	580 Operation supervision and engineering		
4	581 Load dispatching (Operation Labor)		
5	582 Station expenses	83,302.79	12,618.51
6	583 Overhead line expenses		
7	584 Underground line expenses		
8	585 Street lighting and signal system expenses	13,052.09	(12,758.82)
9	586 Meter expenses	89,265.98	5,116.18
10	587 Customer installations expenses	42,814.34	3,804.39
11	588 Miscellaneous distribution expenses	177,044.73	17,024.03
12	589 Rents		
13	Total operation	405,479.93	25,804.29
14	Maintenance:		
15	590 Maintenance supervision and engineering		
16	591 Maintenance of structures	25,704.50	25,704.50
17	592 Maintenance of station equipment	84,453.29	28,522.28
18	593 Maintenance of overhead lines	1,251,187.26	217,812.96
19	594 Maintenance of underground lines	95,409.15	(6,396.22)
20	595 Maintenance of line transformers	-	(3,989.06)
21	596 Maintenance of street lighting and signal syst		
22	597 Maintenance of meters	15,929.97	(1,588.42)
23	598 Maintenance of miscellaneous distribution plant		
24	Total maintenance	1,472,684.17	260,066.04
25	Total distribution expenses	1,878,164.10	285,870.33
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	Operation:		
28	901 Supervision	129,046.40	10,649.25
29	902 Meter reading expenses	42,894.14	3,875.88
30	903 Customer records and collection expenses	178,778.89	(30,156.36)
31	904 Uncollectible accounts	57,051.09	42,857.87
32	905 Miscellaneous customer accounts expenses	238.90	(725.83)
33	Total customer accounts expenses	408,009.42	26,500.81
34	<b>SALES EXPENSES</b>		
35	Operation:		
36	911 Supervision		
37	912 Demonstrating and selling expenses		
38	913 Advertising expenses	126,822.41	18,911.52
39	913 Energy Rebates	73,014.78	15,004.38
40	916 Miscellaneous sales expenses		
41	Total sales expenses	199,837.19	33,915.90
42	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
43	Operation:		
44	920 Administrative and general salaries	213,059.22	34,736.20
45	921 Office supplies and expenses	269,510.84	1,464.67
46	922 Administrative expenses transferred - Cr		
47	923 Outside services employed	229,111.06	53,529.62
48	924 Property insurance	44,294.26	10,424.15
49	925 Injuries and damages	1,775.00	(2,742.50)
50	926 Employee pensions and benefits	13,401.75	(846,523.88)
51	928 Regulatory commission expenses		
52	929 Store Expense		
53	930 Miscellaneous general expenses	42,056.91	(43,982.23)
54	931 Rents	3,090.00	-
55	Total operation	816,299.04	(793,093.97)

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>ADMINISTRATIVE AND GENERAL EXPENSES - Cont.</b>		
2	Maintenance:		
3	932 Maintenance of general plant	28,191.92	26,516.43
4	933 Transportation	94,410.92	82,045.30
5	Total Maintenance	122,602.84	108,561.73
6	Total Administrative and General Expenses	938,901.88	(684,532.24)
7	Total Electric Operation and Maintenance Expense	16,002,468.35	1,630,160.84

**SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES**

Line No.	Functional Classification (a)	Operation (b)	Maintenance (c)	Total (d)
8	<b>Power Production Expenses</b>			
9	Electric Generation:			
10	Steam Power:			
11	Nuclear Power			
12	Hydraulic Power			
13	Other Power	23,403.62	122,314.11	145,717.73
14	Other Power Supply Expenses	12,431,838.03		12,431,838.03
15	Total Power Production Expenses	12,455,241.65	122,314.11	12,577,555.76
16	Transmission Expenses		0.00	0.00
17	Distribution Expenses	405,479.93	1,472,684.17	1,878,164.10
18	Customer Accounts Expenses	408,009.42		408,009.42
19	Sales Expenses	199,837.19		199,837.19
20	Administrative and General Expenses	816,299.04	122,602.84	938,901.88
21	Power Production Expenses	1,829,625.58	1,595,287.01	3,424,912.59
22	Total Electric Operation & Maint	14,284,867.23	1,717,601.12	16,002,468.35

- 23 Ratio of operating expenses to operating revenues 85.44%  
 (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 22 (d), Depreciation (Acct 403) and Amortization (Acct 407)
- 24 Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts. 2,360,709.97
- 25 Total number of employees of electric department at end of year including administrative, operating, maintenance, construction and other employees (including part-time employees) 20

TAXES CHARGED DURING THE 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 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 be readily 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 the appropriate balance sheet plant account or subaccount.  
 5. For any tax which it was necessary to apportion more than one utility department account, state in a footnote the basis of 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)	Electric Acct 408,409 (c)	Gas Acct 408,409 (d)	(e)	(f)	(g)	(h)	(i)
1	Massachusetts Sales Tax	172,717.10	241000						
2									
3									
4									
5									
6									
7									
8									
9									
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27									
28	TOTALS	172,717.10							

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 Department (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1	N/A				
2					
3					
4					
5					
6					
7					
8					
9					
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11					
12					
13					
14					
15					
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49					
50					
51	TOTALS				

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

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

Line No.	Item (a)	Electric Department (b)	Gas Department (c)	Other Utility Department (d)	Total (e)
1	Revenues:	N/A			
2	Merchandise sales, less discounts,				
3	allowances and returns				
4	Contract work				
5	Commissions				
6	Other (list according to major classes)				
7					
8					
9					
10	Total Revenues	0.00	0.00	0.00	0.00
11					
12					
13	Costs and Expenses:				
14	Cost of sales (list according to major				
15	classes of cost)				
16					
17	Materials				
18	Outside Service Labor				
19					
20					
21					
22					
23					
24					
25					
26	Sales Expenses				
27	Customer accounts expenses				
28	Administrative and general expenses				
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50	TOTAL COSTS AND EXPENSES	0.00	0.00	0.00	0.00
51	Net Profit (or loss)	0.00	0.00	0.00	0.00

SALES FOR RESALE (Account 447)

1. Report sales during year to other electric utilities and to cities or other public authorities for distribution to ultimate consumers.  
 2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Municipalities, (4) R.E.A. Cooperatives, and (5) Other Public Authorities.  
 For each sale designate statistical classification in column (b) thus: firm power, FP; dump or surplus power, DP; other, G.

and place and "x" in column (c) if sale involves export across a state line.  
 3. Report separately firm, dump, and other power sold to the same utility. Describe the nature of any sales classified as Other Power, column (b).  
 4. If delivery is made at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; customer owned or leased, CS.

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 point, such sales may be grouped).  
 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 sales may be grouped.

Line No.	Sales to: (a)	Statistical Classification (b)	Export Across State Line (c)	Point of Delivery (d)	Sub Station (e)	Kw or Kva of Demand		Type of Demand Reading (i)	Voltage at Which Delivered (j)	Revenue (Omit Cents)				Revenue per kwh (CENTS) (0.0000) (p)	Line No.
						Contract Demand (f)	Avg mo. Maximum Demand (g)			Kilowatt-Hours (k)	Capacity Charges (l)	Energy Charges (m)	Other Charges (n)		
1	NONE									0	0.00			N/A	1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
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29															29
30															30
31															31
32															32
33															33
34															34
35															35
36															36
TOTALS:										0	0.00	0.00	0.00		



Line No.	Purchased From MMWEC: (a)	Statistical Classification (b)	Across State Line (c)	Point of Receipt (d)	Sub Station (e)	Kw or Kva of Demand		Type of Demand Reading (i)	Voltage at Which Delivered (j)	Kilowatt-Hours (k)	Capacity Charges (l)	Energy Charges (m)	Other Charges (n) **	Total (o)	KWH (CENTS) (0.0000) (p)	Line No.
						Contract Demand (f)	Avg mo. Maximum Demand (g)									
1	New York Power Authority	FP	X	TOWN LINE		1,258		60 MINUTES		8,092,460	62,772.90	50,146.55	280,268.27	393,187.72	\$0.0486	1
2	Stonybrook Peaking	O		TOWN LINE		2,760		60 MINUTES		96,616	58,830.83	24,095.11	2,712.62	85,638.56	\$0.8864	2
3	Stonybrook Intermediate	O		TOWN LINE		8,231		60 MINUTES		2,792,861	363,511.27	307,879.85	10,173.16	681,564.28	\$0.2440	3
4	Nuclear Mix 1 (Seabrook)	O	X	TOWN LINE		76		60 MINUTES		665,194	14,848.62	3,046.59	48.30	17,943.51	\$0.0270	4
5	Nuclear Mix 1 (Millstone)	O	X	TOWN LINE		740		60 MINUTES		5,419,637	180,394.88	33,678.50	8,246.82	222,320.20	\$0.0410	5
6	Nuclear Project 3 (Millstone)	O	X	TOWN LINE		1,165		60 MINUTES		8,531,752	282,838.19	53,017.70	12,982.28	348,838.17	\$0.0409	6
7	Nuclear Project 4 (Seabrook)	O	X	TOWN LINE		1,435		60 MINUTES		12,539,870	276,075.81	57,432.60	910.13	334,418.54	\$0.0267	7
8	Nuclear Project 5 (Seabrook)	O	X	TOWN LINE		177		60 MINUTES		1,546,065	35,045.31	7,080.98	112.22	42,238.51	\$0.0273	8
9	Hydro Quebec	O	X	TOWN LINE						0	0.00	0.00	28,374.58	28,374.58	#DIV/0!	9
10	ISO OATT			TOWN LINE						0	0.00	0.00	2,600,735.36	2,600,735.36	#DIV/0!	10
11	System Power	DP		TOWN LINE						28,338,600	502,200.00	1,681,726.36	0.00	2,183,926.36	\$0.0771	11
12	Berkshire Wind Power Coope	O		TOWN LINE						2,180,490	469,656.00	0.00	0.00	469,656.00	\$0.2154	12
13	Eagle Creek	O		TOWN LINE		600				1,791,422	0.00	104,171.29	595.25	104,766.54	\$0.0585	13
14	Hancock Wind	O		TOWN LINE		951				2,340,686	0.00	105,066.60	564.21	105,630.81	\$0.0451	14
15	Berkshire Wind Power Coope	O		TOWN LINE						1,327,814	268,188.00	0.00	0.00	268,188.00	\$0.2020	15
16	Hydro Quebec Flow Rights			TOWN LINE							(45,034.44)		(69,861.24)	(114,895.68)	#DIV/0!	16
17																17
18																18
19																19
										TOTALS:	75,663,467	2,469,327	2,427,342	2,875,862	7,772,531	

\*\* Includes transmission and administrative charges.

PURCHASED POWER (Account 555)  
(EXCEPT INTERCHANGE POWER)

1. Report power purchased for resale during the year. Exclude from this schedule and report on page 56 partical concerning interchange power transactions during the year. 2. Provide subheadings and classify purchases as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Municipalities, (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 an purchases classified as Other Power, column (b).

4. If receipt of power is at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; seller owned or leased, SS. 5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billing, this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in columns (g) and (h) should be actual based on monthly readings and

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

Cost of Energy (Omit Cents)

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

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 (a)	Interchange Across State Lines (b)	Point of Interchange (c)	Voltage at Which Interchanged (d)	Kilowatt-hours		Net Difference (g)	Amount of Settlement (h)
					Received (e)	Delivered (f)		
1	NEPEX				111,901,631	81,063,400	30,838,231	4,782,908
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13				TOTALS	111,901,631	81,063,400	30,838,231	4,782,908

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)	Amount (k)
14	NEPEX	INTERCHANGE EXPENSE	4,568,773
15		NEPOOL EXPENSE	214,135
16			
17			
18			
19			
20			
21		TOTAL	4,782,908

**ELECTRIC ENERGY ACCOUNT**

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

Line No.	Item (a)		Kilowatt-hours (b)
1	<b>SOURCES OF ENERGY</b>		
2	Generation		
3	Steam		
4	Nuclear		
5	Hydro		
6	Other - Diesel		104,087
7	Total Generation		104,087
8	Purchases		75,663,467
9		( In (gross) 111,901,631	
10	Interchanges	< Out (gross) 81,063,400	
11		( Net (Kwh)	30,838,231
12		( Received	
13	Transmission for/by others (wheeling)	< Delivered	
14		( Net (Kwh)	
15	<b>TOTAL</b>		<b>106,605,785</b>
16	<b>DISPOSITION OF ENERGY</b>		
17	Sales to ultimate consumers (including interdepartmental sales)		100,707,357
18	Sales for resale		
19	Energy furnished without charge		
20	Energy used by the company (excluding station use):		
21	Electric department only		539,574
22	Energy losses		
23	Transmission and conversion losses		
24	Distribution losses	5,358,854	
25	Unaccounted for losses		
26	Total energy losses		5,358,854
27	Energy losses as percent of total on line 15	5.03%	
28	<b>TOTAL</b>		<b>106,605,785</b>

**MONTHLY PEAKS AND OUTPUT**

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

**MARBLEHEAD**

Line No.	Month (a)	Monthly Peak					Monthly Output (kwh) (See Instr. 4) (g)
		Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	
29	January	21,060	Tuesday	11	19:00	Demand	10,448,645
30	February	18,900	Monday	14	19:00	Demand	8,587,908
31	March	16,844	Tuesday	1	19:00	Demand	8,434,251
32	April	13,509	Thursday	7	20:00	Demand	7,097,256
33	May	19,836	Monday	30	20:00	Demand	7,626,411
34	June	20,340	Sunday	26	17:00	Demand	8,319,249
35	July	29,789	Sunday	24	16:00	Demand	12,045,218
36	August	30,973	Monday	8	17:00	Demand	11,694,686
37	September	17,487	Sunday	18	20:00	Demand	7,848,378
38	October	13,653	Sunday	23	19:00	Demand	7,292,979
39	November	16,668	Wednesday	21	19:00	Demand	7,721,164
40	December	20,050	Saturday	24	19:00	Demand	9,489,640
41						<b>TOTAL</b>	<b>106,605,785</b>

**GENERATING STATIONS**

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

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

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

Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)
1	Kind of plant (steam, hydro, int. com. Gas turbine	Int. Comb.		
2	Type of plant construction (conventional, outdoor boiler, full outdoor, etc.)	Conventional		
3	Year originally constructed	1975		
4	Year last unit was installed	1975		
5	Total installed capacity (maximum generator name* plate ratings in kw)	5,500		
6	Net peak demand on plant-kilowatts (60 min.)	5,100		
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	1		
12	Net generation, exclusive of station use	104,087		
13	Cost of plant (omit cents):			
14	Land and land rights	10,696.49		
15	Structures and improvements	312,769.33		
16	Reservoirs, dams, and waterways			
17	Equipment costs	2,300,725.04		
18	Roads, railroadss, and bridges			
19	Total cost	2,624,190.86	-	
20	Cost per kw of installed capacity	514.55		
21	Production expenses:			
22	Operation supervision and engineering			
23	Station labor	122,314.11	-	
24	Fuel	21,485.61		
25	Supplies and expenses, including water	1,918.01		
26	Maintenance			
27	Rents			
28	Steam from other sources			
29	Steam transferred - Credit			
30	Total Production expenses	145,717.73	-	
31	Expenses per net Kwh (5 places)	1.39996		
32	Fuel: Kind	No 2 Fuel Oil		
33	Unit: (Coal-tons of 2,000 lb.) (Oil-barrels of 42 gals.) (Gas-M cu. Ft.) (Nuclear, indicate)	Barrels		
34	Quantity (units) of fuel consumed	211		
35	Average heat content of fuel (B. t. u. per lb. Of coal, per gal. Of oil or per cu. Ft. of gas)	140,000		
36	Average cost of fuel per unit del. f. o. b. plant	170.5		
37	Average cost of fuel per unit consumed	170.5		
38	Average cost of fuel consumed per million B. t. u.	41.43		
39	Average cost of fuel consumer per kwh net gen.	.33		
40	Average B. t. u. per kwh net generation	11,354		
41				
42				

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

547 as shown on Line 24

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

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

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

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

Plant (e)	Plant (f)	Plant (g)	Plant (h)	Plant (i)	Plant (j)	Line No.
*** NONE ***						1
						2
						3
						4
						5
						6
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					42	

**STEAM GENERATING STATIONS**

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

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

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

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)				
	*** NONE ***										1
											2
											3
											4
											5
											6
											7
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<b>TOTALS</b>											37

HYDROELECTRIC GENERATING STATIONS

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

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

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



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

Design Head (h)	R.P.M. (i)	Maximum hp. Capacity of Unit at Design Head (j)	Year Installed (k)	Voltage (l)	Phase (m)	Fre- quency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Station (p)	Total Installed Generating Capacity in Kil- owatts (name plate ratings) (q)	Line No.	
		*** NONE ***								1	
										2	
										3	
										4	
										5	
										6	
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										34	
										35	
										36	
										37	
<b>TOTALS</b>										38	
											39

COMBUSTION ENGINE AND OTHER GENERATING STATIONS  
(except nuclear stations)

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

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

			Prime Movers				
Line No.	Name of Station (a)	Location of Station (b)	Diesel or Other Type Engine (c)	Name of Maker (d)	Year Installed (e)	2 or 4 Installed (f)	Belted or Direct Connected (g)
1	Wilkins 1	Woodfin Terrace	Diesel	General Motors	1975	2	Direct
2	Wilkins 2	Woodfin Terrace	Diesel	General Motors	1975	2	Direct
3							
4							
5							
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35							

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)		
3600	3600	1975	4160	3	60	2750	1	2750	1
3600	3600	1975	4160	3	60	2750	1	2750	2
									3
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					TOTALS				39

GENERATING STATION STATISTICS - (Small Stations)

- Small generating stations, for the purpose of this schedule, are steam and hydro stations of less than 2,500 KW\* and other stations of less than 500 KW\* installed capacity (name plate ratings), (\*10,000 KW and 2,500 KW, respectively, if annual electric operating revenues of respondent are \$25,000,000 or more.
- Designate any plant leased from others, operated under a license from the Federal Power Commission,

- or operated as a joint facility, and give a concise statement of the facts in a footnote.
- List plants appropriately under subheadings for steam, hydro, nuclear internal combustion engine and gas turbine stations. For nuclear, see instructions 10 page 59.
- Specify if total plant capacity is reported in kw instead of kilowatts.

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

Line No.	Name of Plant (a)	Year Const. (b)	Installed Capacity Name Plate Rating - KW (c)	Peak Demand KW (60 Min.) (d)	Net Generation Excluding Station Use (e)	Cost of Plant (Omit Cents) (f)	Plant Cost Per KW Inst. Capacity (g)	Production Expenses Exclusive of Depreciation and Taxes (Omit Cents)			Kind of Fuel (k)	Fuel Cost Per KWH Net Generation (Cents) 0.00 (l)
								Labor (h)	Fuel (i)	Other (j)		
1												
2	N/A											
3												
4												
5												
6												
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26												
27												
28	TOTALS											

TRANSMISSION LINE STATISTICS								
Report information concerning transmission line as indicated below.								
Line No.	Designation		Operating Voltage (c)	Type of Supportive Structure (d)	Length (Pole Miles)		Number of Circuits (g)	Size of Conductors and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1	Salem	Village-13 Sub	22.9 KV	Wood Pole	1.49			
2	Salem	Village-13 Sub	22.9 KV	Underground	0.98			
3	Village-13 Sub	Village-5 Sub	22.9 KV	Underground	0.07			
4	Village-13 Sub	Clifton Sub	13.2 KV	Wood Pole	1.40			
5	Village-13 Sub	Clifton Sub	13.2 KV	Wood Pole		2.40 *		
6	Village-13 Sub	Beacon Sub	13.2 KV	Wood Pole		1.30 *		
7	Village-13 Sub	Commercial Sub	13.2 KV	Underground	1.90			
8	Village-13 Sub	Creesy St	13.2 KV	Underground	1.01			
9	Creesy St	Commercial Sub	13.2 KV	Wood Pole		.97 *		
10	Creesy St	Beacon Sub	13.2 KV	Wood Pole		.70 *		
11								
12								
13								
14								
15								
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45								
46								
47				TOTALS	6.85	5.37 *		

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

ok

**SUBSTATIONS**

1. Report below the information called for concerning substations of the respondent as of the end of the year.
2. Substations which serve but one industrial or street railway customer should not be listed hereunder.
3. Substations with capacities of less than 5000 kva, except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. name of lessor, date and period of lease and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses of other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner or other party is an associated company.
5. Show in columns (i), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.
6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give the respondent. For any substation or equipment operated under lease, give the respondent.

Line No.	Name and Location of Substation (a)	Character of Substation (b)	Voltage			Capacity of Substation in kva (In Service) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number of Units (j)	Total Capacity (k)
1	Clifton Substation	Distribution	13,200	4,160		18,700	2	NONE	NONE	NONE	NONE
2	off Ames Road	Unattended									
3	Beacon Substation	Distribution	13,200	4,160		7,000	1	NONE	NONE	NONE	NONE
4	off Woodfin Terrace	Unattended									
5	Commercial Substation	Distribution	13,200	4,160		18,750	2	NONE	NONE	NONE	NONE
6	off Commercial St	Unattended									
7	Village-5 Substation	Distribution	22,900	4,160		30,000	2	NONE	NONE	NONE	NONE
8	off Village St	Unattended									
9	Village-13 Substation	Distribution	22,900	13,200		40,000	2	NONE	NONE	NONE	NONE
10											
11											
12											
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20											
21											
22											
23											
24											
25											
26					TOTALS	114,450	9	NONE	NONE	NONE	NONE

ok

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles -- Beginning of Year	88.129		88.129
2	Added During Year	0.00		0.00
3	Retired During Year	0.00		0.00
4	Miles -- End of Year	88.129	0.00	88.129
5				
6				
7	A.C. 3 Phase & 1 Phase	2400/4160		
8	60 Cycles	120/240		
9		120/208		
10		277/480		
11				
12				
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:	8,340	10,543	1,253	64,354.0
17	Additions during year				
18	Purchased		62	27	2,800.0
19	Installed	7			
20	Associated with utility plant acquired				
21	Total Additions	7	62	27	2,800.0
22	Reductions during year:				
23	Retirements	0	81	13	406.0
24	Associated with utility plant sold				
25	Total Reductions	0	81	13	406.0
26	Number at end of year	8,347	10,524	1,267	66,748.0
27	In stock		193	82	6,019.0
28	Locked meters on customers' premises		12		
29	Inactive transformers on system				
30	In customers' use		10,299	1,185	60,729.0
31	In company's use		20		
32	Number at end of year		10,524	1,267	66,748.0



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

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

Line No.	Designation of Underground 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	Balance 12/31/2002:	25.606	57.36			
2	Additions 2003:					
3	Clifton Sub - Garden Ckt *3		0.84			
4	Additions 2004:					
5	Green Street	4" pvc x 2 0.18	0.69			
6	Additions 2005:					
7	School Street	4" pvc x 2 0.03	0.09			
8	Essex Street	4" pvc x 2 0.03	0.09			
9	Humphrey Street	4" pvc x 2 0.08	0.24			
10	Highland Project	5" pvc x 2 0.29	0.87			
11	Clipper Way	5" pvc x 2 0.13	0.13			
12	Harvard Street	4" pvc x 2 0.04	0.04			
13	Thomas Circle	4" pvc x 2 0.03	0.03			
14	Additions 2006:					
15	Leggs Hill Road	4" pvc x 2 0.11	0.11			
16	Tower School	4" pvc x 2 0.07	0.07			
17	Additions 2007:					
18	YMCA	4" pvc x 2 0.19	0.19			
19	Westminster	5" pvc x 2 0.11	0.11			
20	Additions 2008:					
21	Highland Project	5" pvc x 2 0.10	0.30			
22	Causeway	5" pvc x 4 0.98	2.94			
23	Additions 2009:					
24	Village School	4" pvc x 2 0.09	0.27			
25	Crowninshield #22	4" pvc x 2 0.06	0.06			
26	Additions 2010:					
27	Tedesco Country Club	4" pvc x 2 0.04	0.06			
28	Stramski's Way	4" pvc x 2 0.21	0.11			
29	Additions 2011:					
30	National Grand Bank	4" pvc x 1 0.03	0.08			
31	Osborne Bidg Pleasant Street	4" pvc x 1 0.02	0.05			
32	Leggs Hill Road	4" pvc x 1 0.03	0.09			
33	Additions 2012:					
34	Camille Terrace	4" pvc x 1 0.07	0.07			
35	Additions 2013:					
36	Lincoln Avenue to Woodfin Property	4" pvc x 1 0.03	0.03			
37	Additions 2014:					
38	Blueberry Road	4" pvc x 2 0.06	0.06			
39	Additions 2016:					
40	Captain's Walk Lane	4" pvc x 1 0.05	0.05			
41	Cloutmans Lane	4" pvc x 1 0.03	0.03			
42	Additions 2017:					
43	Beacon Street	4" pvc x 1 0.03	0.03			
44	Ocean Avenue	4" pvc x 2 1.02	3.85			
45	Flint Street	4" pvc x 2 0.04	0.15			
46	Removal 2020:					
47	Pleasant St	2" steel x 1 (0.01)	-0.03			
48	Baldwin Rd	8" PVC x 1 (0.04)	-0.12			
49	Additions 2022:					
50	Dartmouth stt	4" pvc x 1 0.09	0.27			
51	Removal 2021:					
52	Hooks Lane	8" pvc x 1 (0.04)	-0.12			
53	265 Pleasant	5" pvc x 1 0.09	0.28			
54	TOTALS	29.878	69.372			

\* Indicate number of conductors per cable.

**STREET LAMPS CONNECTED TO SYSTEM**

Line No.	City or Town (a)	Total (b)	Type							
			LED		Mercury Vapor		Florescent & Quartz		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Marblehead	2006	1899	NONE	NONE	NONE	NONE	NONE	107	
2										
3										
4										
5										
6										
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52	TOTALS	2006	1899	0	0	0	0	0	107	0

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 revenues predicted on the previous year's operations.

Effective Date	M.D.P.U. Number	Rate Schedule	Estimated Effect on Annual Revenues	
			Increases	Decreases

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PAGES INTENTIONALLY OMITTED : 9, 13, 23 TO 36, 72 TO 78, 80

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

*Joseph T. Kowalik*  
 Joseph T. Kowalik  
 Commissioner  
 Manager of Electric Light

*Simon D. Frechette*  
 Simon Frechette  
 Commissioner

*Michael Hull*  
 Michael Hull  
 Commissioner  
 Selectmen  
 or

*Adam Smith*  
 Adam Smith  
 Commissioner  
 Members  
 of the  
 Municipal

*Lisa Wolf, Chair*  
 Lisa Wolf  
 Commissioner  
 Light  
 Board

*Jean-Jacques Yarmoff*  
 Jean-Jacques Yarmoff  
 Commissioner

