The Commonwealth of Massachusetts

Return

of the

Municipal Light Department of

the Town of Marblehead

to the

Department of Public Utilities

of Massachusetts

For the Year ended December 31,

2018

Name of officer to whom correspondence should be addressed regarding this report: Joseph T. Kowalik

Official title: General Manager

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 Street	Marblehead, MA 01945

4. Name and address of mayor or selectmen:

Jackie Belf-Becker	Abbot Hall	Marblehead, MA 01945
Harry C. Christensen Jr.	Abbot Hall	Marblehead, MA 01945
Judith R. Jacobi	Abbot Hall	Marblehead, MA 01945
James E. Nye	Abbot Hall	Marblehead, MA 01945
M.C. Moses Grader	Abbot Hall	Marblehead, MA 01945

5. Name and address of town (or city) treasurer:

Leslie Davidson	Widger Road	Marblehead, MA 01945

6. Name and address of town (or city) clerk:

Robin A. Michaud	Abbot Hall	Marblehead, MA 01945

7. Names and addresses of members of municipal light board:

Michael A. Hull	81 Bayview Road	Marblehead, MA 01945
Walter E. Homan	31A Haley Road	Marblehead, MA 01945
Michael A. Tumulty	108 Washington Street	Marblehead, MA 01945
Michael J. Maccario	64 Garfield Street	Marblehead, MA 01945
Karl A. Johnson	25 Reed Street	Marblehead, MA 01945

8. Total valuation of estates in town (or city) according to last State valuation (taxable) $6,315,569,047.00

9. Tax rate for all purposes during the year:

Residential	$10.74
Open Space	$0.00
Commercial/Industrial/Personal Property	$10.74

10. Amount of manager's salary: $230,137.40

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
	INCOME FROM PRIVATE CONSUMERS:	
1	From sales of gas	
2	From sales of electricity	17,738,000.00
3	**TOTAL**	17,738,000.00
4		
5	**EXPENSES**	
6	For operation, maintenance and repairs	16,201,200.00
7	For interest on bonds, notes or scrip	
8	For depreciation fund (3% on 39,351,019.61 as per page 8 B)	1,180,530.59
9	For sinking fund requirements	
10	For note payments	
11	For bond payments	
12	For loss in preceding year	
13	**TOTAL**	17,381,730.59
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	1,012,657.98
19	Of electricity to be used for street lights	135,419.00
20	Total of above items to be included in the tax levy	1,148,076.98
21		
22	New construction to be included in the tax levy	
23	Total amounts to be included in the tax levy	1,148,076.98

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	10,434
TOTAL	0	**TOTAL**	10,434

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	128,102.51
2.	Municipal buildings	920,598.16
3.		
	TOTAL	1,048,700.67

* 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:

* Completed additional noise mitigation improvements to the Wilkins Plant, in compliance with DEP noise policy, to resume normal plant operations.
* Completed substantial renovation of the 125 year old Main Office building at 80 Commercial Street and reoccupied the building in April 2018.
* Completed installation of LED street lights on Marblehead streets: a total of 375 main street lights locations now have 7,100 lumen LED lights with 4,000 degree Kelvin color temperature, and 1,523 side street locations now have 3,200 lumen LED lights with 3,000 Kelvin color temperature.
* Completed emergency installation of approximately 700 feet of riprap along the shoreside berm located at the town's Lead Mills conservation area, near the Salem border. The berm, containing the town's main electric power supply lines from Salem, suffered substanial erosion during the multiple March 2018 nor'easters.
* Completed installation of approximately 1,240 feet of underground service along Ocean Avenue to replace overhead service at that location. The improvement was paid for privately by the residents in the immediate area.

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		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	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

TOTAL COST OF PLANT - ELECTRIC

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

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2	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						
15	Total Steam Production Plant	0.00	0.00	0.00	0.00	0.00	0.00
16	B. Nuclear Production Plant						
17	320 Land and Land Rights						
18	321 Structures and Improvements						
19	322 Reactor Plant Equipment						
20	323 Turbogenerator Units						
21	324 Accessory Electric Equipment						
22	325 Miscellaneous Power Plant Equipment						
23	Total Nuclear Production Plant	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL COST OF PLANT - ELECTRIC (Continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
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	753,975.00	16,859.72		(400,000.00)		370,834.72
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	1,808,174.45	16,859.72	0.00	(400,000.00)	0.00	1,425,034.17
19	Total Production Plant	1,808,174.45	16,859.72	0.00	(400,000.00)	0.00	1,425,034.17
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	706,873.13	135,240.19				842,113.32
29	358 Underground Conductors and Devices	290,170.78					290,170.78
30	359 Roads and Trails						
31	Total Transmission Plant	1,599,629.28	135,240.19	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	1,040,971.30					1,040,971.30
4	362 Station Equipment	5,446,026.85	4,390.61				5,450,417.46
5	363 Storage Battery Equipment	44,977.99	10,182.84				55,160.83
6	364 Poles Towers and Fixtures	2,266,909.31	47,513.07	10,449.26			2,303,973.12
7	365 Overhead Conductors and Devices	3,602,240.60	47,552.51	58,881.16			3,590,911.95
8	366 Underground Conduit	2,391,008.29					2,391,008.29
9	367 Underground Conductors and Devices	2,447,713.73	116,373.76	12,226.78			2,551,860.71
10	368 Line Transformers	1,565,683.85	84,381.12	37,727.32			1,612,337.65
11	369 Services	694,307.20	29,637.59				723,944.79
12	370 Meters	2,899,900.84	19,031.29	5,001.75			2,913,930.38
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	503,596.92	106,915.38	287,912.48			322,599.82
16	Total Distribution Plant	22,982,040.58	465,978.17	412,198.75	0.00	0.00	23,035,820.00
17	5. GENERAL PLANT						
18	389 Land and Land Rights						
19	390 Structures and Improvements	592,959.56	8,657,330.02	296,479.78			8,953,809.80
20	391 Office Furniture and Equipment	595,812.41	104,586.28				700,398.69
21	392 Transportation Equipment	909,726.00	229,819.95	94,213.00			1,045,332.95
22	393 Stores Equipment						
23	394 Tools, Shop and Garage Equipment						
24	395 Laboratory Equipment						
25	396 Power Operated Equipment						
26	397 Communication Equipment	165,654.13	16,445.40				182,099.53
27	398 Miscellaneous Equipment						
28	399 Other Tangible Property						
29	Total General Plant	2,264,152.10	9,008,181.65	390,692.78	0.00	0.00	10,881,640.97
30	Total Electric Plant in Service	30,981,599.40	9,626,259.73	802,891.53	(400,000.00)	0.00	39,404,967.60
31						Total Cost of Electric Plant.....	39,404,967.60
33						Less Cost of Land, Land Rights, Rights of Way.....	53,947.99
34						Total Cost upon which Depreciation is based	39,351,019.61

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 2018:** **1.1367%**

Net Profit (page 12 Col E Line 33) divided by Total Cost of Electric Plant in Service (page 8B Col J Line 106)
447,920.94 39,404,967.60

2 **Estimated Maximum Profit Allowed for 201** **3,152,397.41**

Total Cost of Electric Plant in Service (page 8 Col J Line 106) X Eight Per Cent

3 **Depreciation for 2019 at 3 Per Cent:** **1,180,530.59**

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 **295,132.65**

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		**UTILITY PLANT**			
2	101	Utility Plant - Electric (P. 17)	18,163,875.35	19,708,928.15	1,545,052.80
3	101	Utility Plant - Gas (P. 20)			
4					
5		Total Utility Plant	18,163,875.35	19,708,928.15	1,545,052.80
6					
7					
8					
9					
10					
11		**FUND ACCOUNTS**			
12	125	Sinking Funds			
13	126	Depreciation Fund (P. 14)	7,318,648.61	6,176,015.89	(1,142,632.72)
14	128	Other Special Funds	2,298,648.83	2,311,056.36	12,407.53
15		Total Funds	9,617,297.44	8,487,072.25	(1,130,225.19)
16		**CURRENT AND ACCRUED ASSETS**			
17	131	Cash (P. 14)	4,236,487.02	3,412,592.67	(823,894.35)
18	132	Special Deposits	191,265.00	211,875.00	20,610.00
19	135	Working Funds	500.00	500.00	0.00
20	141	Notes Receivable			
21	142	Customer Accounts Receivable	2,578,170.57	2,755,451.38	177,280.81
22	143	Other Accounts Receivable			
23	146	Receivables from Municipality	63,299.23	120,395.81	57,096.58
24	151	Materials and Supplies (P. 14)	73,026.05	94,921.79	21,895.74
25	171	Interest & Dividend Receivable	0.00	0.00	0.00
26	165	Prepayments	1,358,171.80	1,967,421.11	609,249.31
27	174	Miscellaneous Current Assets			
28		Total Current and Accrued Assets	8,500,919.67	8,563,157.76	62,238.09
29		**DEFERRED DEBITS**			
30	181	Unamortized Debt Discount			
31	182	Extraordinary Property Losses			
32	185	Other Deferred Debits	2,203,296.00	2,099,094.36	(104,201.64)
33		Total Deferred Debits	2,203,296.00	2,099,094.36	(104,201.64)
34					
35		Total Assets and Other Debits	38,485,388.46	38,858,252.52	372,864.06

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		**APPROPRIATIONS**			
2	201	Appropriations for Construction	NONE	NONE	NONE
3		**SURPLUS**			
4	205	Sinking Fund Reserves			
5	206	Loans Repayment			
6	207	Appropriations for Construction Repayments			
7	208	Unappropriated Earned Surplus (P. 12)	22,833,900.32	21,877,841.61	(956,058.71)
8		Total Surplus	22,833,900.32	21,877,841.61	(956,058.71)
9		**LONG TERM DEBT**			
10	221	Bonds (P. 6)	4,500,000.00	5,016,073.33	516,073.33
11	231	Notes Payable (P. 7)			
12		Total Bonds and Notes	4,500,000.00	5,016,073.33	NONE
13		**CURRENT AND ACCRUED LIABILITIES**			
14	232	Accounts Payable	9,068,256.01	9,477,109.64	408,853.63
15	234	Payables to Municipality (Water)			
16	235	Customers' Deposits	189,865.00	209,275.00	19,410.00
17	236	Taxes Accrued			
18	237	Interest Accrued			
19	242	Miscellaneous Current and Accrued Liabilities			
20		Total Current and Accrued Liabilities	9,258,121.01	9,686,384.64	428,263.63
21		**DEFERRED CREDITS**			
22	251	Unamortized Premium on Debt			
23	252	Customer Advances for Construction			
24	253	Other Deferred Credits			
25		Total Deferred Credits	NONE	NONE	NONE
26		**RESERVES**			
27	260	Reserves for Uncollectible Accounts	289,648.21	287,301.81	(2,346.40)
28	261	Property Insurance Reserve			
29	262	Injuries and Damages Reserves			
30	263	Pensions and Benefits Reserves	89,718.92	84,234.28	(5,484.64)
	264	Reserve for Rate Stabilization	900,000.00	900,000.00	0.00
31	265	Miscellaneous Operating Reserves	614,000.00	828,000.00	214,000.00
32		Total Reserves	1,893,367.13	2,099,536.09	206,168.96
33		**CONTRIBUTIONS IN AID OF CONSTRUCTION**			
34	271	Contributions in Aid of Construction	0.00	178,416.85	178,416.85
35		Total Liabilities and Other Credits	38,485,388.46	38,858,252.52	372,864.06

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	**OPERATING INCOME**		
2	400 Operating Revenues (P. 37 and 43)	17,341,385.96	1,224,524.72
3	Operating Expenses:		
4	401 Operation Expense (p. 42 and 47)	14,022,784.01	1,749,174.18
5	402 Maintenance Expense	1,338,337.72	295,473.71
6	403 Depreciation Expense	1,526,382.57	6,872.60
7	407 Amortization of Property Losses		
8			
9	408 Taxes (P. 49)		
10	Total Operating Expenses	16,887,504.30	2,051,520.49
11	Operating Income	453,881.66	(826,995.77)
12	414 Other Utility Operating Income (P. 50)		
13			
14	Total Operating Income	453,881.66	(826,995.77)
15	**OTHER INCOME**		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	-	(67,115.60)
17	419 Interest Income	52,908.46	25,868.78
18	421 Miscellaneous Nonoperating Income (P. 21)		
19	Total Other Income	52,908.46	(41,246.82)
20	Total Income	506,790.12	(868,242.59)
21	**MISCELLANEOUS INCOME DEDUCTIONS**		
22	425 Miscellaneous Amortization		
23	426 Other Income Deductions	0.00	-
24	Total Income Deductions	NONE	NONE
25	Income Before Interest Charges	506,790.12	(868,242.59)
26	**INTEREST CHARGES**		
27	427 Interest on Bonds and Notes	58,869.18	58,869.18
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	58,869.18	58,869.18
33	**NET INCOME**	447,920.94	(927,111.77)

EARNED SURPLUS

Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period)		22,833,900.32
35			
36			
37	433 Balance Transferred from Income		447,920.94
38	434 Miscellaneous Credits to Surplus (P. 21)		0.00
39	435 Miscellaneous Debits to Surplus (P. 21)	1,069,621.19	
40	436 Appropriations of Surplus (P. 21)	334,358.46	
41	437 Surplus Applied to Depreciation		
42	208 Unappropriated Earned Surplus (at end of period)	21,877,841.61	
43			
44	**TOTALS**	23,281,821.26	23,281,821.26

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CASH BALANCES AT END OF YEAR

Line No.	Items (a)	Amount (b)
1	Operation Fund	3,393,683.79
2	Interest Fund	
3	Bond Fund	
4	Construction Fund	18,908.88
5		
6		
7		
8		
9		
10		
11		
12	**TOTAL**	3,412,592.67

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

Line No.	Account (a)	Amount End of Year Electric (b)	Amount End of Year Gas (c)
13	Fuel (Account 151) (See Schedule, Page 25)	7,906.04	
14	Fuel Stock Expenses (Account 152)		
15	Residuals (Account 153)		
16	Plant Materials and Operating Supplies (Account 154 (151))	87,015.75	
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	94,921.79	

DEPRECIATION FUND ACCOUNT (Account 126)

Line No.	(a)	Amount (b)
24	**DEBITS**	
25	Balance of account at beginning of year	7,318,648.61
26	Income during year from balance on deposit (interest)	36,723.24
27	Amount transferred from income (depreciation)	1,526,382.57
28	Adjustment: Accounts Payable 12/31/18	82,312.13
29	Y/E Transfer From Operating Cash	730,416.85
30	**TOTAL**	9,694,483.40
31	**CREDITS**	
32	Amount expended for construction purposes (Sec. 57,C.164 of G.L.)	
33	Amounts expended for renewals,viz:-	3,060,707.78
34	Adjustment: Accounts Payable 12/31/17	457,759.73
35		
36		
37		
38		
39		
40	Balance on hand at end of year	6,176,015.89
41	**TOTAL**	9,694,483.40

UTILITY PLANT - ELECTRIC

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

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2	303 Misc Intangible Plant Transmission	101,521.89		101,521.89			
3							0.00
4		101,521.89	0.00	101,521.89	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						
15	Total Steam Production Plant	0.00	0.00	0.00	0.00	0.00	0.00
16	B. Nuclear Production Plant						
17	320 Land and Land Rights						
18	321 Structures and Improvements						
19	322 Reactor Plant Equipment						
20	323 Turbogenerator Units						
21	324 Accessory Electric Equipment						
22	325 Miscellaneous Power Plant Equipment						
23	Total Nuclear Production Plant	0.00	0.00	0.00	0.00	0.00	0.00

UTILITY PLANT - ELECTRIC (Continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights						
3	331 Structures and Improvements						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators						
6	334 Accessory Electric Equipment						
7	335 Miscellaneous Power Plant Equipment						
8	336 Roads, Railroads and Bridges						
9	Total Hydraulic Production Plant	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	394,004.34	16,859.72	14,004.34		$ (380,000.00)	16,859.72
15	344 Generators	0.00	0.00				0.00
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	404,700.83	16,859.72	14,004.34	0.00	(380,000.00)	27,556.21
19	Total Production Plant	404,700.83	16,859.72	14,004.34	0.00	(380,000.00)	27,556.21
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	64,084.18		21,278.51			42,805.67
28	357 Underground Conduit	74,719.92	135,240.19	35,343.66			174,616.45
29	358 Underground Conductors and Devices	41,539.81		14,508.54			27,031.27
30	359 Roads and Trails						
31	Total Transmission Plant	223,095.41	135,240.19	71,130.71	0.00	0.00	287,204.89

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	479,737.19		52,048.57			427,688.62
4	362 Station Equipment	2,005,922.61	4,390.61	309,060.93			1,701,252.29
5	363 Storage Battery Equipment	8,843.81	10,182.84	2,248.90			16,777.75
6	364 Poles Towers and Fixtures	298,464.86	47,513.07	128,646.65			217,331.28
7	365 Overhead Conductors and Devices	2,119,814.46	47,552.51	204,426.43			1,962,940.54
8	366 Underground Conduit	673,293.96		135,689.24			537,604.72
9	367 Underground Conductors and Devices	675,567.37	116,373.76	138,907.26			653,033.87
10	368 Line Transformers	804,479.39	84,381.12	78,284.19			810,576.32
11	369 Services	333,583.66	29,637.59	34,715.36			328,505.89
12	370 Meters	2,525,110.05	19,031.29	164,569.67			2,379,571.67
13	371 Installations on Customer's Premises						-
14	372 Leased Prop on Customer's Premises						
15	373 Streetlight and Signal Systems	269,023.92	106,915.38	25,179.85			350,759.45
16	Total Distribution Plant	10,194,341.28	465,978.17	1,273,777.05	0.00	0.00	9,386,542.40
17	5. GENERAL PLANT						
18	389 Land and Land Rights						
19	390 Structures and Improvements	0.00	8,657,330.02				8,657,330.02
20	391 Office Furniture and Equipment	0.00	104,586.28				104,586.28
21	392 Transportation Equipment	65,948.58	229,819.95	65,948.58			229,819.95
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	16,445.40				16,445.40
27	398 Miscellaneous Equipment						
28	399 Other Tangible Property						
29	Total General Plant	65,948.58	9,008,181.65	65,948.58	0.00	0.00	9,008,181.65
30	Total Electric Plant in Service	10,989,607.99	9,626,259.73	1,526,382.57	0.00	(380,000.00)	18,709,485.15
31	104 Utility Plant Leased to Others						
32	105 Property Held for Future Use						
33	107 Construction Work in Progress	7,174,267.36				(6,174,824.36)	999,443.00
34	Total Utility Plant Electric	18,163,875.35	9,626,259.73	1,526,382.57	0.00	(6,554,824.36)	19,708,928.15

PRODUCTION FUEL AND OIL STOCKS (Included in Account 151)

(Except Nuclear Materials)

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

Line No.	Item (a)	Total Cost (b)	Kinds of Fuel and Oil			
			Quantity (c)	Cost (d)	Quantity (e)	Cost (f)
1	On Hand Beginning of Year	16,275.54	8,218.00			
2	Received During Year	0.00	0.00			
3	TOTAL	16,275.54	8,218.00			
4	Used During Year (Note A)					
5	For Heating	0.00	0.00			
6	For Generation	8,369.50	4,226.00			
7						
8						
9						
10						
11	Sold or Transferred					
12	TOTAL DISPOSED OF	8,369.50	4,226.00			
13	BALANCE END OF YEAR	7,906.04	3,992.00			

Line No.	Item (g)	Kinds of Fuel and Oil - continued			
		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, Make Oil, Generator Fuel, etc.

MISCELLANEOUS NONOPERATING INCOME (Account 421)

Line No	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6	**TOTAL**	0.00

OTHER INCOME DEDUCTIONS (Account 426)

Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14	**TOTAL**	0.00

MISCELLANEOUS CREDITS TO SURPLUS (Account 434)

Line No.	Item (a)	Amount (b)
15		
16		
17		
18		
19		
20		
21		
22		
23	**TOTAL**	0.00

MISCELLANEOUS DEBITS TO SURPLUS (Account 435)

Line No.	Item (a)	Amount (b)
24		
25	Auditor's Adjusting Entries for year ended December 2017	1,069,621.19
26		
27		
28		
29		
30		
31		
32	**TOTAL**	1,069,621.19

APPROPRIATIONS OF SURPLUS (Account 436)

Line No.	Item (a)	Amount (b)
33	March 2018 Commission voted Net Surplus Revenue - Town of Marblehead	330,000.00
34	March 2018 Commission voted In-Lieu of Tax Payment - Town of Salem	4,358.46
35		
36		
37		
38		
39		
40	**TOTAL**	334,358.46

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		**TOTALS**			

		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue Per KWH (cents) (0.0000) (d)
5					
6	444	Municipal	5,773,047	920,598.16	0.1595
7					
8					
9		Street Lighting	875,439	128,102.51	0.1463
10					
11					
12		**TOTALS**	6,648,486	1,048,700.67	0.1577
13					
14					
15					
16					
17					
18		**TOTALS**	0	0.00	
19		**TOTALS**	6,648,486	1,048,700.67	0.1577

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		TOTALS	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		TOTALS	0	0.00	

Next page is 37

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 meters, plus number of late rate accounts except 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 on Commercial and Industrial Sales, Account 442, 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. See Account 442 of the Uniform System of Accounts. Explain basis of Classification

Line No.	Account (a)	Operating Revenues: Amount for Year (b)	Operating Revenues: Increase or (Decrease) from Preceding Year (c)	Kilowatt-hours Sold: Amount for Year (d)	Kilowatt-hours Sold: Increase or (Decrease) from Preceding Year (e)	Average Number of Customers per Month: Number for Year (f)	Average Number of Customers per Month: Increase or (Decrease) from Preceding Year (g)
1	**SALES OF ELECTRICITY**						
	449 Miscellaneous Electric Sales	0.00	0.00	0	0	0	
2	440 Residential Sales	12,263,844.07	967,636.76	73,892,771	3,821,642	8,783	(14)
	Storage Heat	16,756.93	3,360.91	130,351	19,779	9	0
3	442 Commercial and Industrial Sales						
4	Small Commercial B Sales	1,707,048.55	93,800.17	9,300,471	31,573	1,230	4
5	Large Commercial C Sales	2,195,553.58	155,177.41	14,047,346	(99,698)	62	(1)
6	444 Municipal Sales	920,598.16	42,278.38	5,773,047	(156,813)	110	0
7	Private Area Lights	31,496.32	1,717.20	143,285	3,616	636	2
8	Hot Water	39,924.40	4,342.51	275,829	15,488	98	(3)
9	Off Peak	348.49	33.92	1,750	106	1	0
10	Street Lighting	128,102.51	(1,811.38)	875,439	0	1	0
11	**Total Sales to Ultimate Consumers**	17,303,673.01	1,266,535.88	104,440,289	3,635,693	10,930	(12)
12	447 Sales for Resale	0.00	0.00	0	0	1	0
13	**Total Sales of Electricity**	17,303,673.01	1,266,535.88	104,440,289	3,635,693	10,931	(12)
14	**OTHER OPERATING REVENUES**						
15	449-1 Provision For Rate Stabilization	0.00	0.00				
16	451 Miscellaneous Service Revenues	37,712.95	(42,011.16)		* Includes revenues from		
17	453 Sales of Water and Water Power				application of fuel clauses $		2,648,886.56
18	454 Rent from Electric Property						
19	455 Interdepartmental Rents						
20	456 Other Electric Revenues				Total KWH to which applied		103,564,850
21							
22							
23							
24							
25	Total Other Operating Revenues	37,712.95	(42,011.16)				
26	Total Electric Operating Revenue	17,341,385.96	1,224,524.72				

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	73,892,771	12,263,844.07	0.1660	8,790	8,775
2	13	Storage Heat	130,351	16,756.93	0.1286	9	9
3	5	Commercial	9,300,471	1,707,048.55	0.1835	1,227	1,232
4	6	Industrial	14,047,346	2,195,553.58	0.1563	62	62
5	9	Private Area St Lighting	143,285	31,496.32	0.2198	634	637
6	10	Hot Water	275,829	39,924.40	0.1447	98	98
7	3	Off Peak	1,750	348.49	0.1991	1	1
8	M	Municipal	5,773,047	920,598.16	0.1595	110	110
9	SL	Street Lighting	875,439	128,102.51	0.1463	1	1
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
	TOTAL SALES TO ULTIMATE CONSUMERS (page 37 Line 11)		104,440,289	17,303,673.01	0.1657	10,932	10,925

ELECTRIC OPERATION AND MAINTENANCE EXPENSES

1. Enter in the space proved 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	**POWER PRODUCTION EXPENSES**		
2	**STEAM POWER GENERATION**		
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	**NUCLEAR POWER GENERATION**		
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	**HYDRAULIC POWER GENERATION**		
42	Operation:		
43	535 Operation supervision and engineering		
44	536 Water for power		
45	537 Hydraulic expenses		
46	538 Electric expenses		
47	539 Miscellaneous hydraulic power generation expenses		
48	540 Rents		
49	Total Operation	0.00	0.00

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 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	**OTHER POWER GENERATION**		
11	Operation:		
12	546 Operation supervision and engineering		
13	547 Fuel	9,364.50	6,673.50
14	548 Generation Expenses	(893.80)	(5,716.07)
15	549 Miscellaneous other power generation expense	7,903.00	6,081.61
16	550 Rents		
17	Total Operation	16,373.70	7,039.04
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 plant	131,840.74	34,474.10
23	Total Maintenance	131,840.74	34,474.10
24	Total power production expenses - other power	148,214.44	41,513.14
25	**OTHER POWER SUPPLY EXPENSES**		
26	555 Purchased power	8,678,788.52	995,541.95
27	556 System control and load dispatching		
28	557 Other expenses	2,463,128.12	(68,684.54)
29	Total other power supply expenses	11,141,916.64	926,857.41
30	Total power production expenses	11,290,131.08	968,370.55
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		
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

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		
4	581 Load dispatching (Operation Labor)		
5	582 Station expenses	61,049.03	28,064.76
6	583 Overhead line expenses		
7	584 Underground line expenses		
8	585 Street lighting and signal system expenses	9,144.33	(357.01)
9	586 Meter expenses	73,274.12	9,630.98
10	587 Customer installations expenses	35,088.73	7,325.45
11	588 Miscellaneous distribution expenses	200,221.41	15,200.80
12	589 Rents		
13	Total operation	378,777.62	59,864.98
14	Maintenance:		
15	590 Maintenance supervision and engineering		
16	591 Maintenance of structures	0.00	-
17	592 Maintenance of station equipment	77,775.22	(5,162.01)
18	593 Maintenance of overhead lines	854,458.93	172,438.88
19	594 Maintenance of underground lines	88,087.80	2,489.22
20	595 Maintenance of line transformers	67,776.05	65,879.95
21	596 Maintenance of street lighting and signal systems		
22	597 Maintenance of meters	9,837.25	(6,910.51)
23	598 Maintenance of miscellaneous distribution plant		
24	Total maintenance	1,097,935.25	228,735.53
25	Total distribution expenses	1,476,712.87	288,600.51
26	**CUSTOMER ACCOUNTS EXPENSES**		
27	Operation:		
28	901 Supervision	110,137.07	386.00
29	902 Meter reading expenses	35,088.72	7,325.44
30	903 Customer records and collection expenses	216,131.17	(13,807.22)
31	904 Uncollectible accounts	17,282.22	8,912.89
32	905 Miscellaneous customer accounts expenses	3,025.87	2,896.30
33	Total customer accounts expenses	381,665.05	5,713.41
34	**SALES EXPENSES**		
35	Operation:		
36	911 Supervision		
37	912 Demonstrating and selling expenses		
38	913 Advertising expenses	85,895.89	(2,582.90)
39	916 Miscellaneous sales expenses		
40	Total sales expenses	85,895.89	(2,582.90)
41	**ADMINISTRATIVE AND GENERAL EXPENSES**		
42	Operation:		
43	920 Administrative and general salaries	244,309.55	79,658.08
44	921 Office supplies and expenses	266,165.29	31,032.83
45	922 Administrative expenses transferred - Cr		
46	923 Outside services employed	100,331.48	(16,657.39)
47	924 Property insurance	38,471.15	(2,688.05)
48	925 Injuries and damages	10,600.75	10,175.75
49	926 Employee pensions and benefits	1,270,085.03	721,233.86
50	928 Regulatory commission expenses		
51	929 Store Expense		
52	930 Miscellaneous general expenses	40,905.65	6,636.57
53	931 Rents	47,286.21	(77,109.41)
54	Total operation	2,018,155.11	752,282.24

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	**ADMINISTRATIVE AND GENERAL EXPENSES - Cont.**		
2	Maintenance:		
3	932 Maintenance of general plant	26,516.43	15,631.13
4	933 Transportation	82,045.30	16,632.95
5	Total Maintenance	108,561.73	32,264.08
6	Total Administrative and General Expenses	2,126,716.84	784,546.32
7	Total Electric Operation and Maintenance Expenses	15,361,121.73	2,044,647.89

SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	Operation (b)	Maintenance (c)	Total (d)
8	**Power Production Expenses**			
9	Electric Generation:			
10	Steam Power:			
11	Nuclear Power			
12	Hydraulic Power			
13	Other Power	16,373.70	131,840.74	148,214.44
14	Other Power Supply Expenses	11,141,916.64		11,141,916.64
15	Total Power Production Expenses	11,158,290.34	131,840.74	11,290,131.08
16	Transmission Expenses		0.00	0.00
17	Distribution Expenses	378,777.62	1,097,935.25	1,476,712.87
18	Customer Accounts Expenses	381,665.05		381,665.05
19	Sales Expenses	85,895.89		85,895.89
20	Administrative and General Expenses	2,018,155.11	108,561.73	2,126,716.84
21	Power Production Expenses	2,864,493.67	1,206,496.98	4,070,990.65
22	Total Electric Operation & Maint	14,022,784.01	1,338,337.72	15,361,121.73

23 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 22 (d), Depreciation (Acct 403) and Amortization (Acct 407) — 97.38%

24 Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts. — 2,244,817.59

25 Total number of employees of electric department at end of year including administrative, operating, maintenance, construction and other employees (including part-time employees) — 22

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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	142,406.00	241000						
2									
3									
4									
5									
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26									
27									
28	TOTALS	142,406.00							

OTHER UTILITY OPERATING INCOME (Account 414)

Report below the particulars called for in each column

Line No.	Property (a)	Amount of Investment (b)	Amount of Department (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1					
2	N/A				
3					
4					
5					
6					
7					
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9					
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47					
48					
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.

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		
						Contract Demand (f)	Avg mo. Maximum Demand (g)	Annual Maximum Demand (h)
1	NONE							
2								
3								
4								
5								
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SALES FOR RESALE (Account 447) - Continued

5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billings to the customer this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in column (g) and (h) should be actual based on monthly readings and should be furnished whether or not used in the determination of demand charges. Show in column (i) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).

6. The number of kilowatt-hours sold should be the quantities shown by the bills rendered to the purchasers

7. Explain any amounts entered in column (n) such as fuel or other adjustments.

8. If a contract covers several points of delivery and small amounts of electric energy are delivered at each point, such sales may be grouped.

Type of Demand Reading (i)	Voltage at Which Delivered (j)	Revenue (Omit Cents)					Revenue per kwh (CENTS) (0.0000) (p)	Line No.
		Kilowatt-Hours (k)	Capacity Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
		0	0.00			0.00	N/A	1
								2
								3
								4
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								41
	TOTALS:	0	0.00	0.00		0.00		42

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 particulars concerning interchange power transactions during the year.
2. Provide subheadings and classify purchases 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 (a)	Statistical Classification (b)	Across State Line (c)	Point of Receipt (d)	Sub Station (e)	Kw or Kva of Demand: Contract Demand (f)	Avg mo Maximum Demand (g)	Annual Maximum Demand (h)
1	**MMWEC:**							
2	New York Power Authority	FP	X	TOWN LINE		1322		
3	Stonybrook Peaking	O		TOWN LINE		2716		
4	Stonybrook Intermediate	O		TOWN LINE		9206		
5	Nuclear Mix 1	O	X	TOWN LINE		67		
6	Nuclear Project 3 (Millstone)	O	X	TOWN LINE		682		
7	Nuclear Project 4 (Seabrook)	O	X	TOWN LINE		1086		
8	Nuclear Project 5 (Seabrook)	O	X	TOWN LINE		1320		
9	W. F. Wyman	O	X	TOWN LINE		163		
10	Hydro Quebec	O	X	TOWN LINE		1730		
11	System Power	DP		TOWN LINE				
12	Eagle Creek	O		TOWN LINE		600		
13	Hancock Wind	O	X	TOWN LINE		951		
14								
15								
16								
17								
18	**Subtotal MMWEC**							
19	Berkshire Wind Power Coop	O		TOWN LINE				
20	Eversource Energy Service Co	O		TOWN LINE				
21								
22								
23								
24								
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33								
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PURCHASED POWER (Account 555)
(EXCEPT INTERCHANGE POWER)

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

Type of Demand Reading (i)	Voltage at Which Delivered (j)	Cost of Energy (Omit Cents) Kilowatt-Hours (k)	Capacity Charges (l)	Energy Charges (m)	Other Charges (n) **	Total (o)	KWH (CENTS) (0.0000) (p)	Line No.
								1
60 Minutes	22,900	8,568,904				390,233.16	$0.0455	2
60 Minutes	22,900	105,736				108,613.59	$1.0272	3
60 Minutes	22,900	2,777,508				864,873.09	$0.3114	4
60 Minutes	22,900	612,823				399,560.46	$0.6520	5
60 Minutes	22,900	6,438,824				590,889.24	$0.0918	6
60 Minutes	22,900	10,136,011				553,712.48	$0.0546	7
60 Minutes	22,900	11,552,576				69,381.88	$0.0060	8
60 Minutes	22,900	1,424,340				11,778.89	$0.0083	9
60 Minutes	22,900	369,857				72,510.62	N/A	10
60 Minutes	22,900	43,276,600				2,966,544.12	$0.0685	11
60 Minutes	22,900	2,318,438				166,685.55	$0.0719	12
60 Minutes	22,900	2,626,574				183,200.65	$0.0697	13
								14
								15
								16
								17
		90,208,191	0.00	0.00	0.00	6,377,983.73	$0.0707	18
60 Minutes	22,900	3,049,069				617,750.96	$0.2026	19
60 Minutes	22,900					3,563.92		20
								21
								22
								23
								24
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								33
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								41
	TOTALS:	93,257,260	0.00	0.00	0.00	6,999,298.61	0.0751	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 (a)	Interchange Across State Lines (b)	Point of Interchange (c)	Voltage at Which Interchanged (d)	Kilowatt-hours Received (a)	Kilowatt-hours Delivered (f)	Kilowatt-hours Net Difference (g)	Amount of Settlement (h)
1	NEPEX				114,522,140	97,591,150	16,930,990	4,142,618.03
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12				TOTALS	114,522,140	97,591,150	16,930,990	4,142,618.03

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)	Amount (k)
13	NEPEX	Interchange Expense	3,944,124.03
14		Nepool and Administration Expense	198,494.00
15			
16			
17			
18			
19			
20			
21		TOTAL	4,142,618.03

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	SOURCES OF ENERGY			
2	Generation			
3	Steam			
4	Nuclear			
5	Hydro			
6	Other - Diesel			48,600
7	Total Generation			48,600
8	Purchases			93,257,260
9		(In (gross)	114,522,140	
10	Interchanges	< Out (gross)	97,591,150	
11		(Net (Kwh)		16,930,990
12		(Received		
13	Transmission for/by others (wheeling)	< Delivered		
14		(Net (Kwh)		
15	**TOTAL**			**110,236,850**
16	DISPOSITION OF ENERGY			
17	Sales to ultimate consumers (including interdepartmental sales)			104,440,289
18	Sales for resale			
19	Energy furnished without charge			
20	Energy used by the company (excluding station use):			
21	Electric department only			304,766
22	Energy losses			
23	Transmission and conversion losses		0	
24	Distribution losses		5,491,795	
25	Unaccounted for losses			
26	Total energy losses			5,491,795
27	Energy losses as percent of total on line 15	4.98%		
28			**TOTAL**	**110,236,850**

MONTHLY PEAKS AND OUTPUT

1. Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-hours) for the combined sources of electric energy of respondent.
2. Monthly peak col. (b) should be respondent's maximum kw load as measured by the sum of its coincidental net generation and 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 as to the nature of the emergency.
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 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	23,859	Monday	1	1900	Demand	10,807,465
30	February	18,405	Friday	2	1900	Demand	8,206,371
31	March	17,820	Wednesday	7	1900	Demand	8,942,526
32	April	16,385	Friday	20	1000	Demand	7,676,890
33	May	16,884	Saturday	26	1700	Demand	7,548,516
34	June	20,547	Saturday	30	1500	Demand	8,282,129
35	July	27,720	Thursday	5	1800	Demand	11,283,102
36	August	30,249	Wednesday	29	1800	Demand	11,994,221
37	September	28,728	Monday	3	2000	Demand	8,772,507
38	October	18,045	Wednesday	10	2000	Demand	8,911,684
39	November	17,829	Thursday	22	1200	Demand	8,381,595
40	December	19,494	Tuesday	18	1900	Demand	9,429,844
41						**TOTAL**	**110,236,850**

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 ore 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 therm 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 consumered 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 (conentional, 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 peag 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 consenser water			
11	Average number of employees	2		
12	Net generation, exclusive of station use	48,076		
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	1,101,568.35		
18	Roads, railrodadss, and bridges			
19	Total cost	1,425,034.17	-	
20	Cost per kw of installed capacity	279.42		
21	Production expenses:			
22	Operation supervision and engineering			
23	Station labor	131,840.74	-	
24	Fuel	8,369.50		
25	Suppliles and expenses, including water	7,009.20		
26	Maintenance			
27	Rents			
28	Steam from other sources			
29	Steam transferred - Credit			
30	Total Production expenses	147,219.44	-	
31	Expenses per net Kwh (5 places)	3.06222		
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	101		
35	Average heat content of fuel (B.t.u. per lb. Of coal, per gal. Of oil or per cu. Ft. of gas)	138,000		
36	Average cost of fuel per unit del. f.o.b. plant	$77.70		
37	Average cost of fuel per unit consumed	$77.70		
38	Average cost of fuel consumered per million B.t.u.	$7.25		
39	Average cost of fuel consumer per kwh net gen.	$0.19		
40	Average B.t.u. per kwh net generation	338		
41				
42				

GENERATING STATION STATISTICS (Large Stations) -- Contunued
(Except Nuclear, See Instuction 10)

547 as shown on Line 24

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

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

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

Plant (e)	Plant (f)	Plant (g)	Plant (h)	Plant (I)	Plant (j)	Line No.
*** NONE ***						1
						2
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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)	Boilers: Rated Pressure in lbs. (e)	Boilers: Rated Steam Temperature* (f)	Boilers: Rated Max. Continuous M lbs. Steam per Hour (g)
1							
2							
3							
4							
5	*** NONE ***						
6							
7							
8							
9							
10							
11							
12							
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STEAM GENERATING STATIONS -- Continued

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

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

Turbine-Generators*

Year Installed (h)	Type (i)	Steam Pressure at Throttle p.s.i.g. (j)	R.P.M. (k)	Name Plate Rating in Kilowatts: At Minimum Hydrogen Pressure (l)	Name Plate Rating in Kilowatts: At Maximum Hydrogen Pressure (m)	Hydrogen Pressure**: Min. (n)	Hydrogen Pressure**: Max. (o)	Power Factor (p)	Voltage K.v.++ (q)	Station Capacity Maximum Name Plate Rating*+ (r)	Line No.
	*** NONE ***										1
											2
											3
											4
											5
											6
											7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
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											24
											25
											26
											27
											28
											29
											30
											31
											32
											33
											34
											35
											36
					TOTALS						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 therof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as

Line No.	Name of Station (a)	Location (b)	Name of Stream (c)	Water Wheels			
				Attended or Unattended (d)	Type of Unit* (e)	Year Installed (f)	Gross Static Head with Pond Full (g)
1							
2							
3							
4							
5	*** NONE ***						
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
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29							
30							
31							
32							
33							
34							
35							
36							
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.
										1
										2
										3
										4
										5
										6
										7
										8
										9
										10
										11
										12
										13
		*** NONE ***								14
										15
										16
										17
										18
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										21
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										30
										31
										32
										33
										34
										35
										36
										37
										38
						TOTALS				39

COMBUSTION ENGINE AND OTHER GENERATING STATIONS
(except nuclear stations)

1. Report the information called for concerning generaing 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 leas, 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 arragement 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							
6							
7							
8							
9							
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31							
32							
33							
34							
35							
36							
37							
38							
39							

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

ship by respondent, name of co-owner, basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.
4. Designate any generating station or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent and how determined. Specify whether lessee is an associated company.
5. Designate any plant or equipment owned, not operated and not leased to another company. If such plant or equipment was not operated within the past year explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are comtemplated.

Prime Movers - Continued			Generators						
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)	Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
3600	3600	1975	4160	3	60	2750	1	2750	1
3600	3600	1975	4160	3	60	2750	1	2750	2
									3
									4
									5
									6
									7
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									30
									31
									32
									33
									34
									35
									36
									37
									38
					TOTALS				39

GENERATING STATION STATISTICS - (Small Stations)

1. Small generating stations, for the p urpose of this schedule, are steam and hydro stations of less than 2,500 KW* and other stations of less than 500 KW* installed capacity (name plate ratings). (*10,000 KW and 2,500 KW, respectively, if annual electric operating revenues of respondent are $25,000,000 or more.
2. Designate any plant leased from others, operated under a license from the Federal Power Commission, or operatedd as a joint facility, and give a concise statement of the facts in a footnote.
3. List plants appropriately under subheadings for steam, hydro, nuclear internal combustion engine and gas turbine stations. For nuclear, see instructions 10 page 59.
4. Specify if total plant capacity is reported in kva instead of kilowatts.
5. If peak demand for 60 minutes is not available, give that which is available, specifying period.
6. If any plant is equipped with combustions of steam, hydro, internal combustion engine or gas turbine equipment, each should be reported as a separate plant. However, if the exhaust heat fro the gas turbine is utilized in a steam turbine regenerative feed water cycle, report as one plant.

Line No.	Name of Plant (a)	Year Const. (b)	Installed Capacity Name Plate Rating - KW (c)	Peak Demand KW (60 Min.) (d)	Net Generation Excluding Station Use (e)	Cost of Plant (Omit Cents) (f)	Plant Cost Per KW Inst. Capacity (g)	Production Expenses Exclusive of Depreciation and Taxes (Omit Cents) Labor (h)	Fuel (i)	Other (j)	Kind of Fuel (k)	Fuel Cost Per KWH Net Generation (Conts) 0.00 (l)
1												
2	N/A											
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
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17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28		TOTALS										

TRANSMISSION LINE STATISTICS

Report information concerning transmission line as indicated below.

Line No.	Designation From (a)	Designation To (b)	Operating Voltage (c)	Type of Supportive Structure (d)	Length (Pole Miles) On Structures of Line Designated (e)	Length (Pole Miles) On Structures of Another Line (f)	Number of Circuits (g)	Size of Conductors and Material (h)
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								
16								
17								
18								
19								
20								
21								
22								
23						* Distribution Pole Line		
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47				TOTALS	6.85	5.37 *		

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

SUBSTATIONS

1. Report below the information called for concerning substations of the respondent as of the end of the year.
2. Substations which serve but one industrial or street railway customer should not be listed hereunder.
3. Substations with capacities of less that 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.
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 name of lessor, date and period of lease and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses of other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner or other party is an associated company.

Line No.	Name and Location of Substation (a)	Character of Substation (b)	Voltage Primary (c)	Voltage Secondary (d)	Voltage Tertiary (e)	Capacity of Substation in kva (In Service) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment 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	off Village St	Unattended									
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26					TOTALS	114,450	9	NONE	NONE	NONE	NONE

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 60 Cycles	2400/4160		
8		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:	8,341	10,436	1,245	55,618.0
17	Additions during year				
18	Purchased		16	20	8,192.5
19	Installed	0			
20	Associated with utility plant acquired				
21	Total Additions	0	16	20	8,192.5
22	Reductions during year:				
23	Retirements	0	18	30	1,409.0
24	Associated with utility plant sold				
25	Total Reductions	0	18	30	1,409.0
26	Number at end of year	8,341	10,434	1,235	62,401.5
27	In stock		127	79	4,171.5
28	Locked meters on customers' premises		24		
29	Inactive transformers on system				
30	In customers' use		10,270	1,156	58,230.0
31	In company's use		13		
32	Number at end of year		10,434	1,235	62,401.5

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

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

Line No.	Designation of Underground System (a)	Miles of Conduit Bank (All Sizes and Types) (b)		Underground Cable Miles * (c)	Underground Cable Operating Voltage (d)	Submarine Cable Feet * (e)	Submarine Cable 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				
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				
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 Bldg Pleasant Street	4" pvc x 1	0.02	0.05			
32	Leggs Hill Road	4" pvc x 1	0.03	0.00			
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							
46							
47							
48							
49							
50							
51	TOTALS		29.746	65.22			
52	* Indicate number of conductors per cable.						

STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town (a)	Total (b)	Type: LED Municipal (c)	LED Other (d)	Mercury Vapor Municipal (e)	Mercury Vapor Other (f)	Florescent & Quartz Municipal (g)	Florescent & Quartz Other (h)	Sodium Municipal (i)	Sodium Other (j)
1	Marblehead	1980	1755	NONE	NONE	NONE	NONE	NONE	225	
52	TOTALS	1980	1755	0	0	0	0	0	225	0

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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 revenues predicted on the previous year's operations.

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

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

.... Mayor

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

....
Michael A. Hull Commission Chairman

.... Selectmen
Walter E. Homan Commissioner or

.... Members
Michael A. Tumulty Commissioner of the Municipal

.... Light
Michael J. Maccario Commissioner Board

....
Karl A. Johnson Commissioner

....

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