

Accountants Compilation Report

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Letter on File

Dated March 22, 2002

for

Year Ended December 31, 2019

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GENERAL INFORMATION**Page 3**

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: Nancy Connelly 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)	\$6,719,252,411
9.	Tax rate for all purposes during the year:	
	Residential	\$10.39
	Open Space	\$0.00
	Commercial/Industrial/Personal Property	\$10.39
10.	Amount of manager's salary:	\$160,000.00
11.	Amount of manager's bond:	\$0.00
12.	Amount of salary paid to members of municipal light board (each):	\$0.00

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 (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	370,834.72	197,725.69		999,443.00		1,568,003.41
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	1,425,034.17	197,725.69	0.00	999,443.00	0.00	2,622,202.86
19	Total Production Plant	1,425,034.17	197,725.69	0.00	999,443.00	0.00	2,622,202.86
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	1,040,971.30					1,040,971.30
4	362 Station Equipment	5,450,417.46					5,450,417.46
5	363 Storage Battery Equipment	55,160.83	1,110.22				56,271.05
6	364 Poles Towers and Fixtures	2,303,973.12	87,280.08	35,400.36			2,355,852.84
7	365 Overhead Conductors and Devices	3,590,911.95	188,289.60	113,518.01			3,665,683.54
8	366 Underground Conduit	2,391,008.29	3,440.95				2,394,449.24
9	367 Underground Conductors and Devices	2,551,860.71	14,592.61	7,583.26			2,558,870.06
10	368 Line Transformers	1,612,337.65	53,963.72	39,166.10			1,627,135.27
11	369 Services	723,944.79	51,505.23	21,718.34			753,731.68
12	370 Meters	2,913,930.38	11,496.89	6,981.82			2,918,445.45
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	322,599.82	5,496.69	814.65			327,281.86
16	Total Distribution Plant	23,035,820.00	417,175.99	225,182.54	0.00	0.00	23,227,813.45
17	5. GENERAL PLANT						
18	389 Land and Land Rights						
19	390 Structures and Improvements	8,953,809.80	118,567.18				9,072,376.98
20	391 Office Furniture and Equipment	700,398.69					700,398.69
21	392 Transportation Equipment	1,045,332.95					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	182,099.53	2,369.93				184,469.46
27	398 Miscellaneous Equipment						
28	399 Other Tangible Property						
29	Total General Plant	10,881,640.97	120,937.11	0.00	0.00	0.00	11,002,578.08
30	Total Electric Plant in Service	39,404,967.60	735,838.79	225,182.54	999,443.00	0.00	40,915,066.85
31							Total Cost of Electric Plant..... 40,915,066.85
33							Less Cost of Land, Land Rights, Rights of Way..... 53,947.99
34							Total Cost upon which Depreciation is based 40,861,118.86

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.

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)	19,708,928.15	19,235,632.80	(473,295.35)
3	101	Utility Plant - Gas (P. 20)			
4					
5		Total Utility Plant	19,708,928.15	19,235,632.80	(473,295.35)
6					
7					
8					
9					
10					
11		FUND ACCOUNTS			
12	125	Sinking Funds			
13	126	Depreciation Fund (P. 14)	6,176,015.89	6,671,639.15	495,623.26
14	128	Other Special Funds	2,311,056.36	2,463,369.39	152,313.03
15		Total Funds	8,487,072.25	9,135,008.54	647,936.29
16		CURRENT AND ACCRUED ASSETS			
17	131	Cash (P. 14)	3,412,592.67	4,277,955.50	865,362.83
18	132	Special Deposits	211,875.00	205,244.50	(6,630.50)
19	135	Working Funds	500.00	500.00	0.00
20	141	Notes Receivable			
21	142	Customer Accounts Receivable	2,755,451.38	2,684,148.31	(71,303.07)
22	143	Other Accounts Receivable			
23	146	Receivables from Municipality	120,395.81	93,148.00	(27,247.81)
24	151	Materials and Supplies (P. 14)	94,921.79	133,583.20	38,661.41
25	171	Interest & Dividend Receivable	0.00	0.00	0.00
26	165	Prepayments	1,967,421.11	2,392,687.95	425,266.84
27	174	Miscellaneous Current Assets			
28		Total Current and Accrued Assets	8,563,157.76	9,787,267.46	1,224,109.70
29		DEFERRED DEBITS			
30	181	Unamortized Debt Discount			
31	182	Extraordinary Property Losses			
32	185	Other Deferred Debits	2,099,094.36	1,991,803.00	(107,291.36)
33		Total Deferred Debits	2,099,094.36	1,991,803.00	(107,291.36)
34					
35		Total Assets and Other Debits	38,858,252.52	40,149,711.80	1,291,459.28

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)	21,877,841.61	14,940,253.73	(6,937,587.88)
8	229	Reserve for Rate Stabilization	900,000.00	900,000.00	
9	229-1	MMWEC Reserve Trust	-	530,735.88	
10		Total Surplus	22,777,841.61	16,370,989.61	(6,406,852.00)
11		LONG TERM DEBT			
12	221	Bonds (P. 6)	5,016,073.33	4,855,394.69	(160,678.64)
13	231	Notes Payable (P. 7)			
14		Total Bonds and Notes	5,016,073.33	4,855,394.69	NONE
15		CURRENT AND ACCRUED LIABILITIES			
16	232	Accounts Payable	9,477,109.64	2,455,098.00	(7,022,011.64)
17	232	Pension Liability	-	7,092,308.00	
18	265	OPEB Liability		8,575,873.00	
19	234	Payables to Municipality (Water)			
20	235	Customers' Deposits	209,275.00	201,044.50	(8,230.50)
21	236	Taxes Accrued			
22	237	Interest Accrued			
23	242	Miscellaneous Current and Accrued Liabilities			
24		Total Current and Accrued Liabilities	9,686,384.64	18,324,323.50	8,637,938.86
25		DEFERRED CREDITS			
26	251	Unamortized Premium on Debt			
27	252	Customer Advances for Construction			
28	253	Other Deferred Credits			
29		Total Deferred Credits	NONE	NONE	NONE
30		RESERVES			
31	260	Reserves for Uncollectible Accounts	287,301.81	320,481.60	33,179.79
32	261	Property Insurance Reserve			
33	262	Injuries and Damages Reserves			
34	263	Pensions and Benefits Reserves	84,234.28	74,628.62	(9,605.66)
35	265	Miscellaneous Operating Reserves	828,000.00	0.00	(828,000.00)
36		Total Reserves	1,199,536.09	395,110.22	(804,425.87)
37		CONTRIBUTIONS IN AID OF			
38		CONSTRUCTION			
39	271	Contributions in Aid of Construction	178,416.85	203,893.78	25,476.93
40		Total Liabilities and Other Credits	38,858,252.52	40,149,711.80	1,291,459.28

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)	17,019,763.50	(321,622.46)
3	Operating Expenses:		
4	401 Operation Expense (p. 42 and 47)	13,394,567.43	(628,216.58)
5	402 Maintenance Expense	1,410,976.84	72,639.12
6	403 Depreciation Expense	1,175,178.05	(351,204.52)
7	407 Amortization of Property Losses		
8			
9	408 Taxes (P. 49)		
10	Total Operating Expenses	15,980,722.32	(906,781.98)
11	Operating Income	1,039,041.18	585,159.52
12	414 Other Utility Operating Income (P. 50)		
13			
14	Total Operating Income	1,039,041.18	585,159.52
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	-	-
17	419 Interest Income	73,998.38	21,089.92
18	421 Miscellaneous Nonoperating Income (P. 21)		
19	Total Other Income	73,998.38	21,089.92
20	Total Income	1,113,039.56	606,249.44
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	1,113,039.56	606,249.44
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes	160,063.63	101,194.45
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	160,063.63	101,194.45
33	NET INCOME	952,975.93	505,054.99
EARNED SURPLUS			
Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period)		21,877,841.61
35			
36			
37	433 Balance Transferred from Income		952,975.93
38	434 Miscellaneous Credits to Surplus (P. 21)		1,441.39
39	435 Miscellaneous Debits to Surplus (P. 21)	7,557,950.82	
40	436 Appropriations of Surplus (P. 21)	334,054.38	
41	437 Surplus Applied to Depreciation		
42	208 Unappropriated Earned Surplus (at end of period)	14,940,253.73	
43			
44	TOTALS	22,832,258.93	22,832,258.93

CASH BALANCES AT END OF YEAR			
Line No.	Items (a)	Amount (b)	
1	Operation Fund	4,259,046.62	
2	Interest Fund		
3	Bond Fund		
4	Construction Fund	18,908.88	
5			
6			
7			
8			
9			
10			
11			
12	TOTAL	4,277,955.50	
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)	28,428.61	
14	Fuel Stock Expenses (Account 152)		
15	Residuals (Account 153)		
16	Plant Materials and Operating Supplies (Account 154 (151))	105,154.59	
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	133,583.20	
DEPRECIATION FUND ACCOUNT (Account 126)			
Line No.	(a)	Amount (b)	
24	DEBITS		
25	Balance of account at beginning of year		6,176,015.89
26	Income during year from balance on deposit (interest)		53,718.80
27	Amount transferred from income (depreciation)		1,180,530.56
28	Adjustment: Accounts Payable 12/31/18		37,826.50
29	Y/E Transfer From Operating Cash		-
30	FEMA Reimb		41,698.32
31	TOTAL		7,489,790.07
32	CREDITS		
33	Amount expended for construction purposes (Sec. 57,C.164 of G.L.)		
34	Amounts expended for renewals,viz:-		735,838.79
35	Adjustment: Accounts Payable 12/31/17		82,312.13
36			
37			
38			
39			
40			
41	Balance on hand at end of year		6,671,639.15
42	TOTAL		7,489,790.07

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	16,859.72	1,197,168.69	10,768.34			1,203,260.07
15	344 Generators	0.00					0.00
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	27,556.21	1,197,168.69	10,768.34	0.00	0.00	1,213,956.56
19	Total Production Plant	27,556.21	1,197,168.69	10,768.34	0.00	0.00	1,213,956.56
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	42,805.67		12,767.11			30,038.56
28	357 Underground Conduit	174,616.45		25,263.40			149,353.05
29	358 Underground Conductors and Devices	27,031.27		8,705.12			18,326.15
30	359 Roads and Trails						
31	Total Transmission Plant	287,204.89	0.00	46,735.63	0.00	0.00	240,469.26

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	427,688.62		31,229.14			396,459.48
4	362 Station Equipment	1,701,252.29		158,269.77			1,542,982.52
5	363 Storage Battery Equipment	16,777.75	1,110.22	1,654.82			16,233.15
6	364 Poles Towers and Fixtures	217,331.28	87,280.08	66,903.00			237,708.36
7	365 Overhead Conductors and Devices	1,962,940.54	188,289.60	104,273.26			2,046,956.88
8	366 Underground Conduit	537,604.72	3,440.95	69,430.34			471,615.33
9	367 Underground Conductors and Devices	653,033.87	14,592.61	74,101.19			593,525.29
10	368 Line Transformers	810,576.32	53,963.72	48,370.13			816,169.91
11	369 Services	328,505.89	51,505.23	21,718.34			358,292.78
12	370 Meters	2,379,571.67	11,496.89	84,615.00			2,306,453.56
13	371 Installations on Customer's Premises	-					-
14	372 Leased Prop on Customer's Premises						
15	373 Streetlight and Signal Systems	350,759.45	5,496.69	9,677.99			346,578.15
16	Total Distribution Plant	9,386,542.40	417,175.99	670,242.98	0.00	0.00	9,133,475.41
17	5. GENERAL PLANT						
18	389 Land and Land Rights						
19	390 Structures and Improvements	8,657,330.02	118,567.18	261,765.04		(28,603.58)	8,485,528.58
20	391 Office Furniture and Equipment	104,586.28		70,039.87			34,546.41
21	392 Transportation Equipment	229,819.95		104,533.30			125,286.65
22	393 Stores Equipment						
23	394 Tools, Shop and Garage Equipment						
24	395 Laboratory Equipment						
25	396 Power Operated Equipment						
26	397 Communication Equipment	16,445.40	2,369.93	16,445.40			2,369.93
27	398 Miscellaneous Equipment						
28	399 Other Tangible Property						
29	Total General Plant	9,008,181.65	120,937.11	452,783.61	0.00	(28,603.58)	8,647,731.57
30	Total Electric Plant in Service	18,709,485.15	1,735,281.79	1,180,530.56	0.00	(28,603.58)	19,235,632.80
31	104 Utility Plant Leased to Others						
32	105 Property Held for Future Use						
33	107 Construction Work in Progress	999,443.00			0.00	(999,443.00)	0.00
34	Total Utility Plant Electric	19,708,928.15	1,735,281.79	1,180,530.56	0.00	(1,028,046.58)	19,235,632.80

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	7,906.04	3,992.00			
2	Received During Year	21,859.50	9,500.00			
3	TOTAL	29,765.54	13,492.00			
4	Used During Year (Note A)					
5	For Heating	0.00	0.00			
6	For Generation	1,336.93	606.00			
7						
8						
9						
10						
11	Sold or Transferred					
12	TOTAL DISPOSED OF	1,336.93	606.00			
13	BALANCE END OF YEAR	28,428.61	12,886.00			
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.

ok

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	Adjusting Entry for accounts for estiamted receivables as of 12/31/2018	1,441.39
16		
17		
18		
19		
20		
21		
22		
23	TOTAL	1,441.39
MISCELLANEOUS DEBITS TO SURPLUS (Account 435)		
Line No.	Item (a)	Amount (b)
24		
25	Auditor's Adjusting Entries for year ended December 2018	7,557,864.04
26	Adjusting Entry for accounts for estiamted receivables as of 12/31/2018	86.78
27	FEMA	
28		
29		
30		
31		
32	TOTAL	7,557,950.82
APPROPRIATIONS OF SURPLUS (Account 436)		
Line No.	Item (a)	Amount (b)
33	March 2019 Commission voted Net Surplus Revenue - Town of Marblehead	330,000.00
34	March 2019 Commission voted In-Lieu of Tax Payment - Town of Salem	4,054.38
35		
36		
37		
38		
39		
40	TOTAL	334,054.38

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		TOTALS				
		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue Per KWH (cents) (0.0000) (d)	
5						
6	444	Municipal	5,797,354	923,851.73	0.1594	
7						
8						
9		Street Lighting	875,439	135,419.24	0.1547	
10						
11						
12		TOTALS	6,672,793	1,059,270.97	0.1587	
13						
14						
15						
16						
17						
18		TOTALS	0	0.00		
19		TOTALS	6,672,793	1,059,270.97	0.1587	
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	

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	70,435,761	12,005,018.34	0.1704	8,866	8,884
2	13	Storage Heat	111,315	14,711.66	0.1322	9	9
3	5	Commercial	10,042,766	1,846,185.77	0.1838	1,216	1,216
4	6	Industrial	12,182,565	1,897,833.21	0.1558	70	70
5	9	Private Area St Lighting	143,829	31,919.09	0.2219	204	201
6	10	Hot Water	259,379	38,110.17	0.1469	96	96
7	3	Off Peak	1,547	316.22	0.2044	1	1
8	M	Municipal	5,797,354	923,851.73	0.1594	87	79
9	SL	Street Lighting	875,439	135,419.24	0.1547	1	1
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL SALES TO ULTIMATE CONSUMERS (page 37 Line 11)			99,849,955	16,893,365.43	0.1692	10,550	10,557

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	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	1,357.74	(8,006.76)
14	548 Generation Expenses	0.00	893.80
15	549 Miscellaneous other power generation expense	4,506.85	(3,396.15)
16	550 Rents		
17	Total Operation	5,864.59	(10,509.11)
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	106,525.91	(25,314.83)
23	Total Maintenance	106,525.91	(25,314.83)
24	Total power production expenses - other power	112,390.50	(35,823.94)
25	OTHER POWER SUPPLY EXPENSES		
26	555 Purchased power	7,662,329.38	(1,016,459.14)
27	556 System control and load dispatching		
28	557 Other expenses	2,282,615.86	(180,512.26)
29	Total other power supply expenses	9,944,945.24	(1,196,971.40)
30	Total power production expenses	10,057,335.74	(1,232,795.34)
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	69,513.02	8,463.99
6	583 Overhead line expenses		
7	584 Underground line expenses		
8	585 Street lighting and signal system expenses	7,721.62	(1,422.71)
9	586 Meter expenses	81,477.08	8,202.96
10	587 Customer installations expenses	36,619.06	1,530.33
11	588 Miscellaneous distribution expenses	212,750.09	12,528.68
12	589 Rents		
13	Total operation	408,080.87	29,303.25
14	Maintenance:		
15	590 Maintenance supervision and engineering		
16	591 Maintenance of structures	0.00	-
17	592 Maintenance of station equipment	87,981.02	10,205.80
18	593 Maintenance of overhead lines	1,013,651.65	159,192.72
19	594 Maintenance of underground lines	70,616.41	(17,471.39)
20	595 Maintenance of line transformers	25,140.90	(42,635.15)
21	596 Maintenance of street lighting and signal systems		
22	597 Maintenance of meters	16,155.76	6,318.51
23	598 Maintenance of miscellaneous distribution plant		
24	Total maintenance	1,213,545.74	115,610.49
25	Total distribution expenses	1,621,626.61	144,913.74
26	CUSTOMER ACCOUNTS EXPENSES		
27	Operation:		
28	901 Supervision	108,444.22	(1,692.85)
29	902 Meter reading expenses	36,619.06	1,530.34
30	903 Customer records and collection expenses	231,268.56	15,137.39
31	904 Uncollectible accounts	53,438.18	36,155.96
32	905 Miscellaneous customer accounts expenses	4,523.47	1,497.60
33	Total customer accounts expenses	434,293.49	52,628.44
34	SALES EXPENSES		
35	Operation:		
36	911 Supervision		
37	912 Demonstrating and selling expenses		
38	913 Advertising expenses	114,661.11	28,765.22
39	916 Miscellaneous sales expenses		
40	Total sales expenses	114,661.11	28,765.22
41	ADMINISTRATIVE AND GENERAL EXPENSES		
42	Operation:		
43	920 Administrative and general salaries	181,935.25	(62,374.30)
44	921 Office supplies and expenses	252,909.93	(13,255.36)
45	922 Administrative expenses transferred - Cr		
46	923 Outside services employed	189,223.07	88,891.59
47	924 Property insurance	37,646.86	(824.29)
48	925 Injuries and damages	1,384.23	(9,216.52)
49	926 Employee pensions and benefits	1,764,745.18	494,660.15
50	928 Regulatory commission expenses		
51	929 Store Expense		
52	930 Miscellaneous general expenses	53,083.73	12,178.08
53	931 Rents	5,793.88	(41,492.33)
54	Total operation	2,486,722.13	468,567.02

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	26,217.39	26,516.43	
4	933 Transportation	64,687.80	82,045.30	
5	Total Maintenance	90,905.19	108,561.73	
6	Total Administrative and General Expenses	2,577,627.32	577,128.75	
7	Total Electric Operation and Maintenance Expenses	14,805,544.27	(429,359.19)	
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	5,864.59	106,525.91	112,390.50
14	Other Power Supply Expenses	9,944,945.24		9,944,945.24
15	Total Power Production Expenses	9,950,809.83	106,525.91	10,057,335.74
16	Transmission Expenses		0.00	0.00
17	Distribution Expenses	408,080.87	1,213,545.74	1,621,626.61
18	Customer Accounts Expenses	434,293.49		434,293.49
19	Sales Expenses	114,661.11		114,661.11
20	Administrative and General Expenses	2,486,722.13	90,905.19	2,577,627.32
21	Power Production Expenses	3,443,757.60	1,304,450.93	4,748,208.53
22	Total Electric Operation & Maint	13,394,567.43	1,410,976.84	14,805,544.27
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)			93.93%
24	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts.			2,331,731.51
25	Total number of employees of electric department at end of year including administrative, operating, maintenance, construction and other employees (including part-time employees)			23

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	156,532	241000						
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
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16									
17									
18									
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20									
21									
22									
23									
24									
25									
26									
27									
28	TOTALS	156,531.98							

ok

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					
8					
9					
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12					
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42					
43					
44					
45					
46					
47					
48					
49					
50					
51	TOTALS				

INCOME FROM MERCHANDISE, JOBBING, AND CONTRACT WORK (Account 415)					
Report by utility departments the 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) - 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
								5
								6
								7
								8
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								34
								35
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								38
								39
								40
								41
	TOTALS:	0	0.00	0.00		0.00		42

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.

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).

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

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)					KWH (CENTS) (0.0000) (p)	Line No.
		Kilowatt-Hours (k)	Capacity Charges (l)	Energy Charges (m)	Other Charges (n) **	Total (o)		
60 Minutes	22,900	9,466,800	67,997.11	47,079.89	104,445.53	219,522.53	\$0.0232	1
60 Minutes	22,900	24,302	50,887.77	4,518.94	2,900.91	58,307.62	\$2.3993	2
60 Minutes	22,900	1,201,156	338,832.72	34,068.91	10,720.13	383,621.76	\$0.3194	3
60 Minutes	22,900	664,291	16,888.98	3,502.33	39.80	20,431.11	\$0.0308	4
60 Minutes	22,900	5,695,301	178,249.40	32,300.91	5,392.99	215,943.30	\$0.0379	5
60 Minutes	22,900	8,965,707	283,412.94	50,849.02	8,489.72	342,751.68	\$0.0382	6
60 Minutes	22,900	12,522,839	320,613.79	66,024.17	750.63	387,388.59	\$0.0309	7
60 Minutes	22,900	1,543,967	40,177.92	8,140.25	92.56	48,410.73	\$0.0314	8
60 Minutes	22,900	883	22,732.93	314.28	(89,854.25)	(66,807.04)		9
	22,900		(72,494.89)		(26,520.07)	(99,014.96)		10
					2,037,709.28	2,037,709.28		11
					165,864.59	165,864.59		12
60 Minutes	22,900	38,107,850	292,950.00	1,846,067.92		2,139,017.92	\$0.0561	13
60 Minutes	22,900	2,570,825	328,705.74	100,289.73	(54,132.36)	374,863.11	\$0.1458	14
60 Minutes	22,900	2,138,124		109,792.68	115.95	109,908.63	\$0.0514	15
60 Minutes	22,900	2,718,603		147,772.51	107.52	147,880.03	\$0.0544	16
60 Minutes	22,900	570,313	141,737.52	41,151.54		182,889.06	\$0.3207	17
		86,190,961	2,010,691.93	2,491,873.08	2,166,122.93	6,668,687.94	\$0.0774	18
	22,900				2,140.00	2,140.00		19
								20
								21
								22
								23
								24
								30
								31
								32
								33
								34
								35
								36
								37
								38
								39
								40
								41
	TOTALS:	86,190,961	2,010,691.93	2,491,873.08	2,168,262.93	6,670,827.94	0.0774	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)	Inter-change Across State Lines (b)	Point of Interchange (c)	Voltage at Which Inter-changed (d)	Kilowatt-hours			Amount of Settlement (h)
					Received (a)	Delivered (f)	Net Difference (g)	
1	NEPEX				109,915,670	90,715,180	19,200,490	3,195,953.72
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	TOTALS				109,915,670	90,715,180	19,200,490	3,195,953.72

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)	Amount (k)
13	NEPEX	Interchange Expense	3,029,273.30
14		Nepool and Administration Expense	166,680.42
15			
16			
17			
18			
19			
20			
21	TOTAL		3,195,953.72

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		5,936
7	Total Generation		5,936
8	Purchases		86,190,961
9	(In (gross)	109,915,670	
10	< Out (gross)	90,715,180	
11	(Net (Kwh)		19,200,490
12	(Received		
13	< Delivered		
14	(Net (Kwh)		
15	TOTAL		105,397,387
16	DISPOSITION OF ENERGY		
17	Sales to ultimate consumers (including interdepartmental sales)		99,849,955
18	Sales for resale		
19	Energy furnished without charge		
20	Energy used by the company (excluding station use):		
21	Electric department only		529,651
22	Energy losses		
23	Transmission and conversion losses	0	
24	Distribution losses	5,017,781	
25	Unaccounted for losses		
26	Total energy losses		5,017,781
27	Energy losses as percent of total on line 15		4.76%
28	TOTAL		105,397,387

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					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	22,509	Monday	21	1900	Demand	10,102,329
30	February	18,954	Tuesday	12	1900	Demand	8,484,956
31	March	18,072	Wednesday	6	1900	Demand	8,619,645
32	April	14,940	Tuesday	9	2000	Demand	7,351,353
33	May	14,418	Monday	20	2100	Demand	7,422,291
34	June	16,767	Saturday	29	1600	Demand	7,698,825
35	July	30,555	Sunday	21	1800	Demand	12,092,094
36	August	26,064	Monday	19	1600	Demand	10,305,953
37	September	19,782	Monday	23	2000	Demand	7,817,823
38	October	14,859	Sunday	27	1900	Demand	7,441,488
39	November	17,478	Wednesday	13	1900	Demand	8,346,913
40	December	20,430	Wednesday	18	1900	Demand	9,713,717
41						TOTAL	105,397,387

GENERATING STATIONS

Page 58

**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 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 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	5,936		
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	2,298,737.04		
18	Roads, railroadss, and bridges			
19	Total cost	2,622,202.86	-	
20	Cost per kw of installed capacity	514.16		
21	Production expenses:			
22	Operation supervision and engineering			
23	Station labor	106,525.91	-	
24	Fuel	1,336.93		
25	Supplies and expenses, including water	4,506.85		
26	Maintenance			
27	Rents			
28	Steam from other sources			
29	Steam transferred - Credit			
30	Total Production expenses	112,369.69	-	
31	Expenses per net Kwh (5 places)	18.93020		
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	19		
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	96.6		
37	Average cost of fuel per unit consumed	96.6		
38	Average cost of fuel consumed per million B.t.u.	32.86		
39	Average cost of fuel consumer per kwh net gen.	.30		
40	Average B.t.u. per kwh net generation	338		
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
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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)	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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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 or 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
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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 thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as

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

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

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

Specify whether lessee is an associated company.

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

Water Wheels -- Continued			Generators						Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
Design Head (h)	R.P.M. (l)	Maximum hp. Capacity of Unit at Design Head (j)	Year Installed (k)	Voltage (l)	Phase (m)	Frequency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Station (p)		
		*** NONE ***							1	
									2	
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TOTALS									38	
TOTALS									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							
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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
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						TOTALS			39

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								
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16								
17								
18								
19								
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21								
22								
23								
24						* Distribution Pole Line		
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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 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.
 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			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 off Ames Road	Distribution Unattended	13,200	4,160		18,700	2	NONE	NONE	NONE	NONE
2	Beacon Substation off Woodfin Terrace	Distribution Unattended	13,200	4,160		7,000	1	NONE	NONE	NONE	NONE
3	Commercial Substation off Commercial St	Distribution Unattended	13,200	4,160		18,750	2	NONE	NONE	NONE	NONE
4	Village-5 Substation off Village St	Distribution Unattended	22,900	4,160		30,000	2	NONE	NONE	NONE	NONE
5	Village-13 Substation off Village St	Distribution Unattended	22,900	13,200		40,000	2	NONE	NONE	NONE	NONE
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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 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	10,434	1,235	62,401.5
17	Additions during year:				
18	Purchased		80	27	802.5
19	Installed	0			
20	Associated with utility plant acquired				
21	Total Additions	0	80	27	802.5
22	Reductions during year:				
23	Retirements	0	25	30	842.5
24	Associated with utility plant sold				
25	Total Reductions	0	25	30	842.5
26	Number at end of year	8,341	10,489	1,232	62,361.5
27	In stock		197	75	3,957.0
28	Locked meters on customers' premises		25		
29	Inactive transformers on system				
30	In customers' use		10,249	1,157	58,404.5
31	In company's use		18		
32	Number at end of year		10,489	1,232	62,361.5

ok

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						
47						
48						
49						
50						
51	TOTALS	29.784	69.09			
52	* 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	1980	1755	NONE	NONE	NONE	NONE	NONE	225	
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52	TOTALS	1980	1755	0	0	0	0	0	225	0

RATE SCHEDULE INFORMATION

1. Attach copies of all Filed Rates for General Consumers
2. Show below the changes in rate schedules during year and the estimated increase or decrease in annual 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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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,


2019

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

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

Mayor



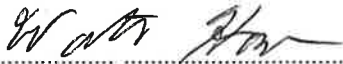
Joseph T. Kowalik

Manager of Electric Light



Michael A. Hull

Commission Chairman



Walter E. Homan

Commissioner

Selectmen
or



Michael A. Tumulty

Commissioner

Members
of the
Municipal



Michael J. Maccario

Commissioner

Light
Board



Karl A. Johnson

Commissioner