

# 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,**

2015

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

Official title: General Manager

Andrew F. Hadden

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:		
Andrew F. Hadden	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
Bret T. Murray	Abbot Hall	Marblehead, MA 01945
James E. Nye	Abbot Hall	Marblehead, MA 01945
5. Name and address of town (or city) treasurer:		
Patricia Murray	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
Joseph T. Kowalik Jr.	60 Seaview Avenue	Marblehead, MA 01945
Michael J. Maccario	64 Garfield Street	Marblehead, MA 01945
8. Total valuation of estates in town (or city) according to last State valuation (taxable)	\$5,525,938,716.00	
9. Tax rate for all purposes during the year:		
	Residential	\$11.10
	Open Space	\$0.00
	Commercial/Industrial/Personal Property	\$11.10
10. Amount of manager's salary:	\$252,443.45	
11. Amount of manager's bond:	\$0.00	
12. Amount of salary paid to members of municipal light board (each):	\$0.00	

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

		Amount
<b>1</b>	<b>INCOME FROM PRIVATE CONSUMERS:</b>	
1	From sales of gas	
2	From sales of electricity	16,164,400.00
3		16,164,400.00
4		
<b>5</b>	<b>EXPENSES</b>	
6	For operation, maintenance and repairs	14,944,700.00
7	For interest on bonds, notes or scrip	
8	For depreciation fund ( 3% on 29,656,104.35 as per page 8 B )	889,683.13
9	For sinking fund requirements	
10	For note payments	
11	For bond payments	
12	For loss in preceding year	
13		15,834,383.13
14		
<b>15</b>	<b>COST:</b>	
16	Of gas to be used for municipal buildings	
17	Of gas to be used for street lights	
18	Of electricity to be used for municipal buildings	902,675.28
19	Of electricity to be used for street lights	133,773.00
20	Total of above items to be included in the tax levy	1,036,448.28
21		
22	New construction to be included in the tax levy	
23	Total amounts to be included in the tax levy	1,036,448.28

**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	10,395
<b>TOTAL</b>	0	<b>TOTAL</b>	10,395

**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 **	
			<b>TOTAL</b> <u>0.00</u>

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

1. Street lights	133,773.24
2. Municipal buildings	820,613.89
3.	
	<b>TOTAL</b> <u>954,387.13</u>

\* 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:**

- \* Set poles and started reconductoring Ocean Avenue 2nd Phase of Project.

**In gas property:**

Not applicable



Town Notes

(Issued on Account of Gas or Electric Lighting.)

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

Year Ended December 31, 2015

**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

Line No.	Account (a)	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		2,327,602.99					
4							
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			
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

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

Year Ended December 31, 2015

## 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	345,344.72					350,965.00
15	344 Generators	762,947.10					762,947.10
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	1,493,922.17	5,620.28	0.00	0.00	0.00	1,499,542.45
19	Total Production Plant	1,493,922.17	5,620.28	0.00	0.00	0.00	1,499,542.45
20	3. Transmission Plant						
21	350 Land and Land Rights	40,900.00					
22	351 Clearing Land and Rights of Way	1,851.50					40,900.00
23	352 Structures and Improvements	42,849.54					1,851.50
24	353 Station Equipment	35,999.02					42,849.54
25	354 Towers and Fixtures	240.78					35,999.02
26	355 Poles and Fixtures	55,174.33					240.78
27	356 Overhead Conductors and Devices	425,570.20					55,174.33
28	357 Underground Conduit	706,873.13					425,570.20
29	358 Underground Conductors and Devices	290,170.78					706,873.13
30	359 Roads and Trails						290,170.78
31	Total Transmission Plant	1,599,629.28	0.00	0.00	0.00	0.00	1,599,629.28

## TOTAL COST OF PLANT (Concluded)

Line No.	Account (a)	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	5,109,838.03					5,115,271.25
5	363 Storage Battery Equipment	44,977.99					44,977.99
6	364 Poles Towers and Fixtures	2,118,150.93		12,475.66			2,169,537.42
7	365 Overhead Conductors and Devices	3,238,627.14		8,699.98			3,379,014.98
8	366 Underground Conduit	2,372,225.36		14,377.83			2,386,603.19
9	367 Underground Conductors and Devices	2,287,264.12		102,620.48			2,389,884.60
10	368 Line Transformers	1,436,620.14		126,999.18			1,531,205.65
11	369 Services	608,488.30		29,939.59			638,427.89
12	370 Meters	3,195,349.91		13,281.73			2,794,462.28
13	371 Installations on Customer's Premises	78,203.70		414,169.36			78,203.70
14	372 Leased Prop on Customer's Premises						
15	373 Streetlight and Signal Systems	463,353.87		25,228.65			
16	Total Distribution Plant	21,994,570.79		530,830.65			477,374.27
17	5. GENERAL PLANT			478,966.92			
18	389 Land and Land Rights						0.00
19	390 Structures and Improvements	592,959.56					592,959.56
20	391 Office Furniture and Equipment	595,812.41					595,812.41
21	392 Transportation Equipment	663,371.00		241,980.00			882,417.00
22	393 Stores Equipment			22,934.00			
23	394 Tools, Shop and Garage Equipment						
24	395 Laboratory Equipment						
25	396 Power Operated Equipment						
26	397 Communication Equipment						
27	398 Miscellaneous Equipment	164,578.91		1,075.22			165,654.13
28	399 Other Tangible Property						
29	Total General Plant	2,016,721.88		243,055.22		22,934.00	0.00
30	Total Electric Plant in Service	29,432,447.11		779,506.15		501,900.92	0.00
31							2,236,843.10
33	Total Cost of Electric Plant.....						29,710,052.34
34	Less Cost of Land, Land Rights, Rights of Way.....						53,947.99
	Total Cost upon which Depreciation is based .....						29,656,104.35
	The above figures should show the original cost of the existing property. In case any part of the property, less the land value, 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		<b>UTILITY PLANT</b>			
2	101	Utility Plant - Electric (P. 17)	12,971,298.76	12,402,841.15	(568,457.61)
3	101	Utility Plant - Gas (P. 20)			
4					
5		Total Utility Plant	12,971,298.76	12,402,841.15	(568,457.61)
6					
7					
8					
9					
10					
11		<b>FUND ACCOUNTS</b>			
12	125	Sinking Funds			
13	126	Depreciation Fund (P. 14)	5,815,665.41	6,751,652.52	935,987.11
14	128	Other Special Funds	2,482,631.49	2,489,909.02	7,277.53
15		Total Funds	8,298,296.90	9,241,561.54	943,264.64
16		<b>CURRENT AND ACCRUED ASSETS</b>			
17	131	Cash (P. 14)	4,314,686.00	4,590,557.65	275,871.65
18	132	Special Deposits	171,476.06	180,727.00	9,250.94
19	135	Working Funds	500.00	500.00	0.00
20	141	Notes Receivable			
21	142	Customer Accounts Receivable	1,961,427.34	2,619,291.82	657,864.48
22	143	Other Accounts Receivable			
23	146	Receivables from Municipality	63,059.68	6,289.21	(56,770.47)
24	151	Materials and Supplies (P. 14)	128,640.71	94,189.34	(34,451.37)
25	171	Interest & Dividend Receivable	0.00	0.00	0.00
26	165	Prepayments	1,446,322.70	1,410,609.15	(35,713.55)
27	174	Miscellaneous Current Assets			
28		Total Current and Accrued Assets	8,086,112.49	8,902,164.17	816,051.68
29		<b>DEFERRED DEBITS</b>			
30	181	Unamortized Debt Discount			
31	182	Extraordinary Property Losses			
32	185	Other Deferred Debits	0.00	409,444.00	409,444.00
33		Total Deferred Debits	0.00	409,444.00	409,444.00
34					
35		Total Assets and Other Debits	29,355,708.15	30,956,010.86	1,600,302.71

**COMPARATIVE BALANCE SHEET Liabilities and Other Credits**

Line No.		Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1		<b>APPROPRIATIONS</b>			
2	201	Appropriations for Construction			
3		<b>SURPLUS</b>			
4	205	Sinking Fund Reserves			
5	206	Loans Repayment			
6	207	Appropriations for Construction Repayments			
7	208	Unappropriated Earned Surplus (P. 12)			
8		Total Surplus	24,984,937.42	21,053,968.16	(3,930,969.26)
9		<b>LONG TERM DEBT</b>	24,984,937.42	21,053,968.16	(3,930,969.26)
10	221	Bonds (P. 6)			
11	231	Notes Payable (P. 7)			
12		Total Bonds and Notes			
13		<b>CURRENT AND ACCRUED LIABILITIES</b>			
14	232	Accounts Payable	1,601,284.03	6,598,043.14	4,996,759.11
15	234	Payables to Municipality (Water)			
16	235	Customers' Deposits	169,636.06	178,627.00	8,990.94
17	236	Taxes Accrued			
18	237	Interest Accrued			
19	242	Miscellaneous Current and Accrued Liabilities			
20		Total Current and Accrued Liabilities	1,770,920.09	6,776,670.14	5,005,750.05
21		<b>DEFERRED CREDITS</b>			
22	251	Unamortized Premium on Debt			
23	252	Customer Advances for Construction			
24	253	Other Deferred Credits			
25		Total Deferred Credits			
26		<b>RESERVES</b>			
27	260	Reserves for Uncollectible Accounts	354,030.94	415,454.14	61,423.20
28	261	Property Insurance Reserve			
29	262	Injuries and Damages Reserves			
30	263	Pensions and Benefits Reserves	65,819.70	89,918.42	24,098.72
	264	Reserve for Rate Stabilization	900,000.00	900,000.00	0.00
31	265	Miscellaneous Operating Reserves	1,280,000.00	1,720,000.00	440,000.00
32		Total Reserves	2,599,850.64	3,125,372.56	525,521.92
33		<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>			
34	271	Contributions in Aid of Construction			
35		Total Liabilities and Other Credits	29,355,708.15	30,956,010.86	1,600,302.71

State below if any earning of the municipal lighting plant have been used for any purpose other than discharging indebtedness of the plant, the purpose for which used, and the amount thereof.

## STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Current Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>OPERATING INCOME</b>		
2	400 Operating Revenues (P. 37 and 43)	16,764,245.41	986,252.87
3	Operating Expenses:		
4	401 Operation Expense (p. 42 and 47)	13,594,108.70	221,336.68
5	402 Maintenance Expense	1,030,186.19	(7,461.63)
6	403 Depreciation Expense	1,468,924.96	591,130.36
7	407 Amortization of Property Losses		
8			
9	408 Taxes (P. 49)		
10	Total Operating Expenses	16,093,219.85	805,005.41
11	Operating Income	671,025.56	181,247.46
12	414 Other Utility Operating Income (P. 50)		
13			
14	Total Operating Income	671,025.56	181,247.46
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	-	(126,603.00)
17	419 Interest Income	22,622.88	2,846.35
18	421 Miscellaneous Nonoperating Income (P. 21)		
19	Total Other Income	22,622.88	(123,756.65)
20	Total Income	693,648.44	57,490.81
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization		
23	426 Other Income Deductions		
24	Total Income Deductions	NONE	NONE
25	Income Before Interest Charges	693,648.44	57,490.81
26	<b>INTEREST CHARGES</b>		
27	427 Interest on Bonds and Notes		
28	428 Amortization of Debt Discount and Expense		
29	429 Amortization of Premium on Debt - Credit		
30	431 Other Interest Expense		
31	432 Interest: Charged to Construction - Credit		
32	Total Interest Charges	NONE	NONE
33	<b>NET INCOME</b>	693,648.44	57,490.81
<b>EARNED SURPLUS</b>			
Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period)		24,984,937.42
35			
36			
37	433 Balance Transferred from Income		693,648.44
38	434 Miscellaneous Credits to Surplus (P. 21)		12,137.78
39	435 Miscellaneous Debits to Surplus (P. 21)	4,301,484.79	
40	436 Appropriations of Surplus (P. 21)	335,270.69	
41	437 Surplus Applied to Depreciation		
42	208 Unappropriated Earned Surplus (at end of period)	21,053,968.16	
43			
44	<b>TOTALS</b>	25,690,723.64	25,690,723.64

CASH BALANCES AT END OF YEAR		
Line No.	Items (a)	Amount (b)
1	Operation Fund	4,584,985.72
2	Interest Fund	
3	Bond Fund	
4	Construction Fund	5,571.93
5		
6		
7		
8		
9		
10		
11		
12		
	<b>TOTAL</b>	<b>4,590,557.65</b>

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

Line No.	Account (a)	Amount End of Year	
		Electric (b)	Gas (c)
13	Fuel (Account 151 ) (See Schedule, Page 25)	46,638.17	
14	Fuel Stock Expenses (Account 152)		
15	Residuals (Account 153)		
16	Plant Materials and Operating Supplies (Account 154 (151))	47,551.17	
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	94,189.34	

**DEPRECIATION FUND ACCOUNT (Account 126)**

Line No.	(a)	Amount (b)
24	<b>DEBITS</b>	
25	Balance of account at beginning of year	5,815,665.41
26	Income during year from balance on deposit (interest)	14,971.22
27	Amount transferred from income (depreciation)	1,468,924.96
28	Adjustment: Accounts Payable 12/31/15	69,638.88
29	Y/E Transfer From Operating Cash/Smart Mtr Grant Reimbursement from DOE	277,800.00
30		<b>TOTAL</b> 7,647,000.47
31	<b>CREDITS</b>	
32	Amount expended for construction purposes (Sec. 57.C.164 of G.L.)	0.00
33	Amounts expended for renewals, viz:-	892,275.34
34	Adjustment: Accounts Payable 12/31/14	3,072.61
35		
36		
37		
38		
39		
40	Balance on hand at end of year	6,751,652.52
41		<b>TOTAL</b> 7,647,000.47

Year Ended December 31, 2015

## 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

1. Report below the cost of utility plant in service preceding year. Such items should be included in column (c).

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

3. Credit adjustments of plant accounts should be shown 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)	Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT	450,662.34		116,380.15			334,282.19
2	303 Misc Intangible Plant Transmission						334,282.19
3		450,662.34	0.00	116,380.15	0.00	0.00	
4							
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	0.00	0.00	0.00	0.00	0.00	0.00
23	Total Nuclear Production Plant						

Year Ended December 31, 2015

**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	72,034.23	5,620.28	20,667.22			56,987.29
15	344 Generators	0.00					0.00
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	82,730.72	5,620.28	20,667.22	0.00	0.00	67,683.78
19	Total Production Plant	82,730.72	5,620.28	20,667.22	0.00	0.00	67,683.78
20	3. Transmission Plant						
21	350 Land and Land Rights	40,900.00					
22	351 Clearing Land and Rights of Way	1,851.50					40,900.00
23	352 Structures and Improvements	2,951.09					1,851.50
24	353 Station Equipment	0.00					808.61
25	354 Towers and Fixtures	18.03					0.00
26	355 Poles and Fixtures	0.00					5.99
27	356 Overhead Conductors and Devices	127,919.71					0.00
28	357 Underground Conduit	180,750.90					106,641.20
29	358 Underground Conductors and Devices	85,065.43					145,407.24
30	359 Roads and Trails						70,556.89
31	Total Transmission Plant	439,456.66	0.00	73,285.23	0.00	0.00	366,171.43

## UTILITY PLANT -- ELECTRIC (Continued)

UTILITY PLANT -- ELECTRIC (Continued)							Year Ended December 31, 2015	
Line No.	Account	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		52,048.57			500.00	
3	361 Structures and Improvements	635,882.90	5,433.22	255,491.90			583,834.33	
4	362 Station Equipment	2,438,058.68		2,248.90			2,188,000.00	
5	363 Storage Battery Equipment	15,590.51		126,761.17			13,341.61	
6	364 Poles Towers and Fixtures	492,552.61	63,862.15	149,087.82	193,816.29		429,653.59	
7	365 Overhead Conductors and Devices	2,308,824.75		14,377.83	141,966.30		2,264,096.28	
8	366 Underground Conduit	1,081,843.18		102,620.48	114,363.21		954,254.71	
9	367 Underground Conductors and Devices	862,146.57					850,403.84	
10	368 Line Transformers	807,671.53	126,999.18	71,831.01			862,839.70	
11	369 Services	343,224.00	29,939.59	30,424.42			342,739.17	
12	370 Meters	2,851,507.96	10,056.97	159,767.50			2,701,797.43	
13	371 Installations on Customer's Premises		5,746.06	3,224.76			5,060.63	
14	372 Leased Prop on Customer's Premises							
15	373 Streetlight and Signal Systems	95,284.76	25,228.65	23,167.69			97,345.72	
16	Total Distribution Plant	11,938,833.51	530,830.65	1,175,797.15	0.00	0.00	11,293,867.01	
17	5. GENERAL PLANT							
18	389 Land and Land Rights							
19	390 Structures and Improvements	0.00					0.00	
20	391 Office Furniture and Equipment	0.00					0.00	
21	392 Transportation Equipment	0.00	241,980.00	66,337.34			175,642.66	
22	393 Stores Equipment							
23	394 Tools, Shop and Garage Equipment							
24	395 Laboratory Equipment							
25	396 Power Operated Equipment							
26	397 Communication Equipment	19,765.53	1,075.22	16,457.87			4,382.88	
27	398 Miscellaneous Equipment							
28	399 Other Tangible Property							
29	Total General Plant	19,765.53	243,055.22	82,795.21	0.00	0.00	180,025.54	
30	Total Electric Plant in Service	12,931,448.76	779,506.15	1,468,924.96	0.00	0.00	12,242,029.95	
31	104 Utility Plant Leased to Others							
32	105 Property Held for Future Use							
33	107 Construction Work in Progress	39,850.00						
34	Total Utility Plant Electric	12,971,298.76	779,506.15	1,468,924.96	0.00	120,961.20	160,811.20	

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		Kinds of Fuel and Oil	
		Quantity (b)	Cost (c)	Quantity (e)	Cost (f)
1	On Hand Beginning of Year	62,706.13	18,328.50		
2	Received During Year	17,338.14	10,638.10		
3	TOTAL	80,044.27	28,966.60		
4	Used During Year (Note A)				
5	For Heating	27,977.64	8,460.10		
6	For Generation	5,428.46	1,641.50		
7					
8					
9					
10					
11	Sold or Transferred				
12	TOTAL DISPOSED OF	33,406.10	10,101.60		
13	BALANCE END OF YEAR	46,638.17	18,865.00		
Kinds of Fuel and Oil - continued					
Line No.	Item (g)	Quantity		Cost	
		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		
	<b>TOTAL</b>	<b>0.00</b>

**OTHER INCOME DEDUCTIONS (Account 426)**

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

**MISCELLANEOUS CREDITS TO SURPLUS (Account 434)**

Line No.	Item (a)	Amount (b)
15		
16	Year End adjusting entries for year ended December 2015	12,137.78
17		
18		
19		
20		
21		
22		
23		
	<b>TOTAL</b>	<b>12,137.78</b>

**MISCELLANEOUS DEBITS TO SURPLUS (Account 435)**

Line No.	Item (a)	Amount (b)
24		
25	Auditor's adjusting entries for year ended December 2014	4,301,484.79
26		
27		
28		
29		
30		
31		
32		
	<b>TOTAL</b>	<b>4,301,484.79</b>

**APPROPRIATIONS OF SURPLUS (Account 436)**

Line No.	Item (a)	Amount (b)
33	March 2015 Commission voted Net Surplus Revenue - Town of Marblehead	330,000.00
34	March 2015 Commission voted In-Lieu of Tax Payment - Town of Salem	5,270.69
35		
36		
37		
38		
39		
40		
	<b>TOTAL</b>	<b>335,270.69</b>

**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	5,544,127	820,613.89	0.1480
7					
8					
9		Street Lighting	943,695	133,773.24	0.1418
10					
11					
12			TOTALS	6,487,822	954,387.13
13					0.1471
14					
15					
16					
17					
18			TOTALS	0	0.00
19			TOTALS	6,487,822	954,387.13
					0.1471

**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

## Annual Report of the Town of Marblehead

**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 KWH. See Account 442 of the Uniform System of Accounts. Explain basis of classification.

Line No.	Account (a)	Operating Revenues			Kilowatt-hours Sold			Average Number of Customers per Month		
		Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)	Amount for Year (d)	Increase or (Decrease) from Preceding Year (e)	Number for Year (f)	Increase or (Decrease) from Preceding Year (g)			
1	<b>SALES OF ELECTRICITY</b>									
2	449 Miscellaneous Electric Sales	11,787,226.68	0.00	699,648.90	0	209,347	0			
2	440 Residential Sales	15,085.42	622.04	125,012	(5,826)	8,785	9			
3	442 Commercial and Industrial Sales									
4	Small Commercial B Sales	1,737,200.57	120,758.02	10,005,594	148,783	1,213	2			
5	Large Commercial C Sales	2,154,721.44	97,699.56	14,967,867	(412,332)	63	0			
6	444 Municipal Sales	820,613.89	65,476.08	5,544,127	19,941	110	4			
7	Private Area Lights	30,608.58	344.87	143,360	(5,027)	632	0			
8	Hot Water	38,823.24	746.42	282,465	(16,964)	113	(1)			
9	Off Peak	353.43	(111.44)	1,889	(850)	1	(4)			
10	Street Lighting	133,773.24	6,018.04	943,695	71	1	0			
11	<b>Total Sales to Ultimate Consumers</b>	16,718,406.49	991,202.49	105,294,644	(62,857)	10,927	0			
12	447 Sales for Resale	0.00	0.00	0	0	1	0			
13	<b>Total Sales of Electricity</b>	16,718,406.49	991,202.49	105,294,644	(62,857)	10,928	0			
14.	<b>OTHER OPERATING REVENUES</b>									
15	449-1 Provision For Rate Stabilization	0.00	0.00	45,838.92	(4,949.62)					
16	451 Miscellaneous Service Revenues									
17	453 Sales of Water and Water Power									
18	454 Rent from Electric Property									
19	455 Interdepartmental Rents									
20	456 Other Electric Revenues									
21										
22										
23										
24	Total Other Operating Revenues			45,838.92	(4,949.62)					
25	Total Electric Operating Revenue			16,764,245.41	986,252.87					
26										

\* Includes revenues from application of fuel clauses \$

1,674,609.59  
Total KWH to which applied  
104,350,949

Year Ended December 31, 2015

**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	73,280,635	11,787,226.68	0.1609	8,789	8,781
2	13	Storage Heat	125,012	15,085.42	0.1207	9	9
3	5	Commercial	10,005,594	1,737,200.57	0.1736	1,215	1,210
4	6	Industrial	14,967,867	2,154,721.44	0.1440	61	64
5	9	Private Area St Lighting	143,360	30,608.58	0.2135	630	633
6	10	Hot Water	282,465	38,823.24	0.1374	115	111
7	3	Off Peak	1,889	353.43	0.1871	1	1
8	M	Municipal	5,544,127	820,613.89	0.1480	110	110
9	SL	Street Lighting	943,695	133,773.24	0.1418	1	1
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
<b>TOTAL SALES TO ULTIMATE CONSUMERS (page 37 Line 11)</b>			105,294,644	16,718,406.49	0.1588	10,931	10,920

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

## ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>HYDRAULIC POWER GENERATION - Continued</b>		
2	Maintenance:		
3	541 Maintenance Supervision and engineering		
4	542 Maintenance of structures		
5	543 Maintenance or reservoirs, dams and waterways		
6	544 Maintenance of electric plant		
7	545 Maintenance of miscellaneous hydraulic plant		
8	Total maintenance	NONE	NONE
9	Total power production expenses - hydraulic power	NONE	NONE
10	<b>OTHER POWER GENERATION</b>		
11	Operation:		
12	546 Operation supervision and engineering	16,067.96	(96,075.28)
13	547 Fuel	0.00	(5,169.40)
14	548 Generation Expenses	1,186.81	1,186.81
15	549 Miscellaneous other power generation expense		
16	550 Rents		
17	Total Operation	17,254.77	(100,057.87)
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	83,110.82	(5,090.20)
23	Total Maintenance	83,110.82	(5,090.20)
24	Total power production expenses - other power	100,365.59	(105,148.07)
25	<b>OTHER POWER SUPPLY EXPENSES</b>		
26	555 Purchased power	8,678,980.32	32,050.40
27	556 System control and load dispatching	2,169,625.77	69,043.66
28	557 Other expenses	10,848,606.09	101,094.06
29	Total other power supply expenses	10,948,971.68	(4,054.01)
30	Total power production expenses		
31	<b>TRANSMISSION EXPENSES</b>		
32	Operation:		
33	560 Operation supervision and engineering		
34	561 Load dispatching		
35	562 Station expenses		
36	563 Overhead line expenses		
37	564 Underground line expenses		
38	565 Transmission of electricity by others		
39	566 Miscellaneous transmission expenses		
40	567 Rents		
41	Total Operation	NONE	NONE
42	Maintenance:		
43	568 Maintenance supervision and engineering		
44	569 Maintenance of structures		
45	570 Maintenance of station equipment		
46	571 Maintenance of overhead lines	0.00	0.00
47	572 Maintenance of underground lines		
48	573 Maintenance of miscellaneous transmission plant		
49	Total maintenance	0.00	0.00
50	Total transmission expenses	0.00	0.00

## ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>DISTRIBUTION EXPENSES</b>		
2	Operation:		
3	580 Operation supervision and engineering		
4	581 Load dispatching (Operation Labor)	66,717.72	(12,950.46)
5	582 Station expenses		
6	583 Overhead line expenses		
7	584 Underground line expenses		
8	585 Street lighting and signal system expenses	2,596.00	(1,020.06)
9	586 Meter expenses	53,452.20	(4,678.53)
10	587 Customer installations expenses	30,668.80	(4,470.23)
11	588 Miscellaneous distribution expenses	85,772.68	26,738.13
12	589 Rents		
13	Total operation	239,207.40	3,618.85
14	Maintenance:		
15	590 Maintenance supervision and engineering		
16	591 Maintenance of structures	0.00	(34.43)
17	592 Maintenance of station equipment	56,069.95	(7,942.53)
18	593 Maintenance of overhead lines	688,511.13	38,341.50
19	594 Maintenance of underground lines	65,377.99	(2,382.32)
20	595 Maintenance of line transformers	3,966.48	2,956.09
21	596 Maintenance of street lighting and signal systems		
22	597 Maintenance of meters	15,805.50	(15,693.29)
23	598 Maintenance of miscellaneous distribution plant		
24	Total maintenance	829,731.05	15,245.02
25	Total distribution expenses	1,068,938.45	18,863.87
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	Operation:		
28	901 Supervision	108,171.28	2,491.77
29	902 Meter reading expenses	29,826.66	(5,015.34)
30	903 Customer records and collection expenses	210,578.96	(14,951.81)
31	904 Uncollectible accounts	95,000.00	30,000.00
32	905 Miscellaneous customer accounts expenses	148.13	(42.60)
33	Total customer accounts expenses	443,725.03	12,482.02
34	<b>SALES EXPENSES</b>		
35	Operation:		
36	911 Supervision		
37	912 Demonstrating and selling expenses		
38	913 Advertising expenses	70,143.79	(23,524.96)
39	916 Miscellaneous sales expenses		
40	Total sales expenses	70,143.79	(23,524.96)
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	Operation:		
43	920 Administrative and general salaries	254,808.83	(30,298.05)
44	921 Office supplies and expenses	254,306.60	7,130.78
45	922 Administrative expenses transferred - Cr		
46	923 Outside services employed	68,720.57	5,458.87
47	924 Property insurance	38,067.76	508.07
48	925 Injuries and damages	510.00	(1,779.06)
49	926 Employee pensions and benefits	1,325,987.08	271,608.79
50	928 Regulatory commission expenses		
51	929 Store Expense		
52	930 Miscellaneous general expenses	32,770.78	(24,904.82)
53	931 Rents		
54	Total operation	1,975,171.62	227,724.58

**ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued**

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>ADMINISTRATIVE AND GENERAL EXPENSES - Cont.</b>		
2	Maintenance:		
3	932 Maintenance of general plant	58,011.23	1,050.67
4	933 Transportation	59,333.09	(18,667.12)
5	Total Maintenance	117,344.32	(17,616.45)
6	Total Administrative and General Expenses	2,092,515.94	210,108.13
7	Total Electric Operation and Maintenance Expenses	14,624,294.89	213,875.05

**SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES**

Line No.	Functional Classification (a)	Operation (b)	Maintenance (c)	Total (d)
8	<b>Power Production Expenses</b>			
9	Electric Generation:			
10	Steam Power:			
11	Nuclear Power			
12	Hydraulic Power			
13	Other Power	17,254.77	83,110.82	100,365.59
14	Other Power Supply Expenses	10,848,606.09		10,848,606.09
15	Total Power Production Expenses	10,865,860.86	83,110.82	10,948,971.68
16	Transmission Expenses		0.00	0.00
17	Distribution Expenses	239,207.40	829,731.05	1,068,938.45
18	Customer Accounts Expenses	443,725.03		443,725.03
19	Sales Expenses	70,143.79		70,143.79
20	Administrative and General Expenses	1,975,171.62	117,344.32	2,092,515.94
21	Power Production Expenses	2,728,247.84	947,075.37	3,675,323.21
22	Total Electric Operation & Maint	13,594,108.70	1,030,186.19	14,624,294.89

23	Ratio of operating expenses to operating revenues (carry out decimal two places, (e.g.. 0.00%))	96.00%
	Compute by dividing Revenues (Acct 400) into the sum of Operation and Maintenance Expenses (Page 42, line 22 (d)), Depreciation (Acct 403) and Amortization (Acct 407)	
24	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts.	1,844,018.74
25	Total number of employees of electric department at end of year including administrative, operating, maintenance, construction and other employees (including part-time employees)	21

**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	124,493.00	241000						
2									
3									
4									
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27									
28									
TOTALS		124,493.00							

Year Ended December 31, 2015

**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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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, allowances and returns				
3					
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 classes of cost)				
15					
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					
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39					
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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) P.R.A. Cooperatives, and (5) Other Public Authorities.

For each sale designate statistical classification in column (b) thus: firm power, FP; dump or surplus power, DP; other, G.

and place and "x" in column (c) if sale involves export across a state line.

3. Report separately firm, dump, and other power sold to the same utility. Describe the nature of any sales classified as Other Power, column (b).

4. If delivery is made at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; customer owned or leased, CS.

## SALES FOR RESALE (Account 447) - Continued

5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billings to the customer this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in column (g) and (h) should be actual based on monthly readings and should be furnished whether or not used in the determination of demand charges. Show in column (l) 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 purchaser

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 (l)	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
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								40
								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).

**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)					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	8,802,662				363,327.05	\$0.0413	1
60 Minutes	22,900	37,093				75,541.99	\$2.0366	2
60 Minutes	22,900	5,745,191				1,502,258.59	\$0.2615	3
60 Minutes	22,900	6,967,768				329,387.17	\$0.0473	4
60 Minutes	22,900	10,059,530				1,023,317.40	\$0.1017	5
60 Minutes	22,900	10,889,339				943,237.74	\$0.0866	6
60 Minutes	22,900	1,342,569				123,182.65	\$0.0918	7
60 Minutes	22,900	1,069,902				249,991.63	\$0.2337	8
60 Minutes	22,900					61,105.54	N/A	9
60 Minutes	22,900	49,722,900				4,196,770.44	\$0.0844	10
60 Minutes	22,900	1,749,012				117,394.42		11
		96,385,966	0.00	0.00	0.00	8,985,514.62	\$0.0932	12
60 Minutes	22,900	3,323,996				342,923.11		13
60 Minutes	22,900					4,226.55		14
								15
								16
								17
								18
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								42
	TOTALS:	99,709,962	0.00	0.00	0.00	9,332,664.28	0.0936	

## 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 debit 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.

Year Ended December 31, 2015

Year Ended December 31, 2015

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	Amount of Settlement (h)
1	NEPEX				122,802,770	12,896,040
2					109,906,730	1,515,941.81
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
				TOTALS	122,802,770	109,906,730
					12,896,040	1,515,941.81

B. Details of Settlement for Interchange Power		
Line No.	Name of Company (i)	Explanation (j)
13	NEPEX	Interchange Expense
14		Nepool and Administration Expense
15		
16		
17		
18		
19		
20		
21		

## 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	20,700
7	Total Generation	20,700
8	Purchases	99,709,962
9		( In (gross) 122,802,770)
10	Interchanges	< Out (gross) 109,906,730
11		( Net (Kwh) 12,896,040)
12		( Received )
13	Transmission for/by others (wheeling)	< Delivered
14		( Net (Kwh) )
15	<b>TOTAL</b>	<b>112,626,702</b>
16	DISPOSITION OF ENERGY	
17	Sales to ultimate consumers (including interdepartmental sales)	105,294,644
18	Sales for resale	
19	Energy furnished without charge	
20	Energy used by the company (excluding station use):	
21	Electric department only	247,658
22	Energy losses	
23	Transmission and conversion losses	0
24	Distribution losses	7,084,400
25	Unaccounted for losses	
26	Total energy losses	7,084,400
27	Energy losses as percent of total on line 15	6.29%
28		<b>TOTAL</b> <b>112,626,702</b>

## MONTHLY PEAKS AND OUTPUT

- Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-hours) for the combined sources of electric energy of respondent.
- Monthly peak col. (b) should be respondent's maximum kw load as measured by the sum of its coincidental net generation and purchase plus or minus net interchange, minus temporary deliveries (not interchange) or emergency power to another system. Monthly peak including such emergency deliveries should be shown in a footnote with a brief explanation

- as to the nature of the emergency.
- State type of monthly peak reading (instantaneous 15, 30, or 60 minutes integrated.)
- Monthly output should be the sum of respondent's net generation and purchases plus minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with line 15 above.
- If the respondent has two or more power systems not physically connected, the information called for below should be furnished for each system.

## MARBLEHEAD

Line No.	Month (a)	Kilowatts (b)	Monthly Peak				Monthly Output (kwh) (See Instr. 4) (g)
			Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	
29	January	22,194	Thursday	8	1900	Demand	10,941,051
30	February	21,996	Monday	15	1900	Demand	10,205,850
31	March	19,854	Sunday	1	1900	Demand	9,723,279
32	April	16,839	Wednesday	8	2000	Demand	7,847,986
33	May	17,316	Thursday	28	2100	Demand	8,038,155
34	June	19,188	Thursday	1	1800	Demand	8,427,846
35	July	27,405	Monday	20	1800	Demand	11,113,044
36	August	23,949	Monday	31	2100	Demand	11,122,831
37	September	25,002	Monday	7	2000	Demand	9,397,180
38	October	16,596	Monday	19	1900	Demand	8,096,736
39	November	18,531	Monday	30	1900	Demand	8,349,825
40	December	18,765	Sunday	20	1900	Demand	9,362,919
41						<b>TOTAL</b>	<b>112,626,702</b>

## 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, specifying 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.	Int. Comb.	
2	Type of plant construction (conventional, outdoor boiler, full outdoor, etc.)	Conventional	Conventional	
3	Year originally constructed	1938	1975	
4	Year last unit was installed	1948	1975	
5	Total installed capacity (maximum generator name plate ratings in kw)	1,136	5,500	
6	Net peag demand on plant-kilowatts (60 min.)	1,050	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	2	
12	Net generation, exclusive of station use	0	20,700	
13	Cost of plant (omit cents):			
14	Land and land rights	10,696.49		
15	Structures and improvements	71,936.95	240,832.38	
16	Reservoirs, dams, and waterways			
17	Equipment costs	311,660.31	864,416.32	
18	Roads, railroads, and bridges			
19	Total cost	394,293.75	1,105,248.70	
20	Cost per kw of installed capacity	375.52	216.72	
21	Production expenses:			
22	Operation supervision and engineering			
23	Station labor	41,555.41	41,555.41	
24	Fuel	0.00	5,428.46	
25	Supplies and expenses, including water	395.60	791.21	
26	Maintenance			
27	Rents			
28	Steam from other sources			
29	Steam transferred - Credit			
30	Total Production expenses	41,951.01	47,775.08	
31	Expenses per net Kwh (5 places)	N/A	2.30797	
32	Fuel: Kind	No 2 Fuel Oil	No 2 Fuel Oil	
33	Unit: (Coal-tons of 2,000 lb.) (Oil-barrels of 42 gals.) (Gas-M cu. Ft.) (Nuclear, indicate)	Barrels	Barrels	
34	Quantity (units) of fuel consumed	0	39	
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	138,000	
36	Average cost of fuel per unit det. f.o.b. plant	0	\$152.28	
37	Average cost of fuel per unit consumed	0	\$152.28	
38	Average cost of fuel consumed per million B.t.u.	0	\$26.28	
39	Average cost of fuel consumer per kwh net gen.	0	\$0.2869	
40	Average B.t.u. per kwh net generation	0	10,940	
41				
42				

**GENERATING STATION STATISTICS (Large Stations) -- Contunued**  
**(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							
2							
3							
4							
5	*** NONE ***						
6							
7							
8							
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**STEAM GENERATING STATIONS -- Continued**

expenses to 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\*

## 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 ***						
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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. (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)			
		*** NONE ***									1
											2
											3
											4
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											39
							TOTALS				

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

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

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

Line No.	Name of Station (a)	Location of Station (b)	Prime Movers			
			Diesel or Other Type Engine (c)	Name of Maker (d)	Year Installed (e)	2 or 4 Installed (f)
1	Commercial	80 Commercial	Diesel	Fairbanks Morse	1948	2
2	Wilkins 1	Woodfin Terrace	Diesel	General Motors	1975	2
3	Wilkins 2	Woodfin Terrace	Diesel	General Motors	1975	2
4						
5						
6						
7						
8						
9						
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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 contemplated.

Prime Movers - Continued			Generators						Total Installed Generating Capacity in Kilowatts (name plate ratings)	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)			
1600	1600	1948	4160	3	60	1136	1	1136	1	
3600	3600	1975	4160	3	60	2750	1	2750	2	
3600	3600	1975	4160	3	60	2750	1	2750	3	
									4	
									5	
									6	
									7	
									8	
									9	
									10	
									11	
									12	
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									29	
									30	
									31	
									32	
									33	
									34	
									35	
									36	
									37	
									38	
									39	
						TOTALS				

## GENERATING STATION STATISTICS : (Small Stations)

1. Small generating stations, for the purpose of this schedule, are steam and hydro stations of less than 2,500 KW\* and other stations of less than 500 KW\* (uninstalled 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, or operated under a license from the Federal Power Commission.

or operated as a joint facility, and give a concise statement or the facts in a footnote.

3. List plants appropriately under subheadings for steam, hydrot, nuclear, internal combustion engines and gas turbine stations. For nuclear, see instructions 10 page 58.

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, hydrot, internal combustion engine or gas turbine equipment, each should be reported as a separate plant. However, if the exhaust heat from the gas turbine is utilized in a steam turbine regenerative feed water circuit, report as one plant.

- 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 from the gas turbine is utilized in a steam turbine, regenerative feed water circles around the plant.

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

## Annual Report of the Town of Marblehead

- Report below the information called for concerning substations of the respondent as of the end of the year.
- Substations which serve but one industrial or street railway customer should not be listed hereunder.
- 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.

**SUBSTATIONS**

Year Ended December 31, 2015

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		5,000	1	None	None	None	None
3	Commercial Substation off Commercial St	Distribution Unattended	13,200	4,160		8,000	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		30,000	2	None	None	None	None
6											
7											
8											
9											
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11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
									TOTALS	91,700	9
									None	None	None

- Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended.
- Show in columns (i), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.
- 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.

## OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles – Beginning of Year	88,129.00		88,129.00
2	Added During Year	0.00		0.00
3	Retired During Year	0.00		0.00
4	Miles – End of Year	88,129.00	0.00	88,129.00
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:	8,319	10,365	1,217	54,265.5
17	Additions during year				
18	Purchased		30	13	375.0
19	Installed	8			
20	Associated with utility plant acquired				
21	Total Additions	8	30	13	375.0
22	Reductions during year:				
23	Retirements		0	21	645.0
24	Associated with utility plant sold				
25	Total Reductions	0	0	21	645.0
26	Number at end of year	8,327	10,395	1,209	53,995.5
27	In stock		171	87	6,799.5
28	Locked meters on customers' premises		21		
29	Inactive transformers on system				
30	In customers' use		10,182	1,122	47,196.0
31	In company's use		21		
32	Number at end of year		10,395	1,209	53,995.5

## 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		Submarine Cable	
			Miles *	Operating Voltage (d)	Feet *	Operating Voltage (f)
1	Balance 12/31/2002:		25.606	57.36		
2	Additions 2003:			0.84		
3	Clifton Sub - Garden Ckt *3					
4	Additions 2004:					
5	Green Street	4" pvc x 2	0.18			
6	<b>Additions 2005:</b>					
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	<b>Additions 2006:</b>					
15	Leggs Hill Road	4" pvc x 2	0.11	0.11		
16	Tower School	4" pvc x 2	0.07	0.07		
17	<b>Additions 2007:</b>					
18	YMCA	4" pvc x 2	0.19	0.19		
19	Westminster	5" pvc x 2	0.11	0.11		
20	<b>Additions 2008:</b>					
21	Highland Project	5" pvc x 2	0.10	0.30		
22	Causeway	5" pvc x 4	0.98			
23	<b>Additions 2009:</b>					
24	Village School	4" pvc x 2	0.09	0.27		
25	Crowninshield #22	4" pvc x 2	0.06	0.06		
26	<b>Additions 2010:</b>					
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	<b>Additions 2011:</b>					
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	0.00		
33	<b>Additions 2012:</b>					
34	Camille Terrace	4" pvc x 1	0.07			
35	<b>Additions 2013:</b>					
36	Lincoln Avenue to Woodfin Property	4" pvc x 1	0.03			
37	<b>Additions 2014:</b>					
38	Blueberry Road	4" pvc x 2	0.06			
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51	<b>TOTALS</b>		28.616	61.10		
52	* Indicate number of conductors per cable.					

## STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town (a)	Total (b)	Type							
			Incandescent		Mercury Vapor		Florescent & Quartz		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Marblehead	1943	NONE	NONE	NONE	NONE	NONE	NONE	1943	NONE
2										
3										
4										
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49										
50										
51										
52	TOTALS	1943	0	0	0	0	0	0	1943	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
		See Attached For New Rates As Of June 2011		

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

..... Mayor

*Andrew F. Hadden* ..... Andrew F. Hadden Manager of Electric Light

*Michael A. Hull* ..... Michael A. Hull Commission Chairman

*Walter E. Homan* ..... Walter E. Homan Commissioner Selectmen  
or

*Joseph T. Kowalik Jr.* ..... Joseph T. Kowalik Jr. Commissioner Members  
of the  
Municipal

*Michael A. Tumulty* ..... Michael A. Tumulty Commissioner Light  
Board

*Michael J. Maccario* ..... Michael J. Maccario Commissioner

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## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 66  
Cancels MDTE - 56

### Rate A

Available for lighting, space heating, water heating and all other domestic uses in a single private dwelling or individual apartment.

#### Monthly Charge

Basic Monthly Charge	\$ 4.25	per Month
All kilowatt-hours	\$ 0.1425	per kilowatt-hour

Seasonal Service \$ 4.25 per Month

#### Off-Peak Water Heating

Applicable to customers currently serviced under this rate; the Marblehead Municipal Light Department will make no further installations under this rate.

Basic Monthly Charge	\$ 4.50	per Month
All kilowatt-hours	\$ 0.1425	per kilowatt-hour

#### Terms and Conditions

The Department's terms and conditions in effect from time to time where not inconsistent with any specific provision of this tariff are part of this tariff.

All kilowatt-hour usage under this tariff is subject to the Purchase Power Adjustment Clause, MDPU - 74

All Terms and Conditions of this tariff are subject to applicable law

Marblehead Municipal Light Department  
80 Commercial Street  
P.O. Box 369  
Marblehead, Massachusetts 01945

By: Robert V. Jolly  
Robert V. Jolly, General Manager

## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 67  
Cancels MDTE - 57

### Rate B

Available for all purposes other than domestic uses where the monthly demand does not equal or exceed 30 kilowatts for three consecutive months

#### Monthly Charge

Basic Monthly Charge	\$ 5.00	per Month
All kilowatt-hours	\$ 0.15	per kilowatt-hour

Seasonal Service \$ 5.00 per Month

Temporary Power \$ 30.00 per installation

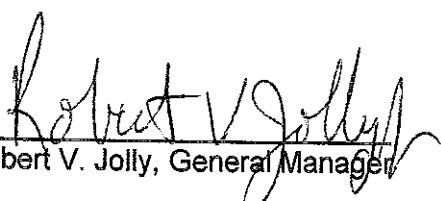
#### Terms and Conditions

The Department's terms and conditions in effect from time to time where not inconsistent with any specific provision of this tariff are part of this tariff.

All kilowatt-hour usage under this tariff is subject to the Purchase Power Adjustment Clause, MDPU - 74

All Terms and Conditions of this tariff are subject to applicable law

Marblehead Municipal Light Department  
80 Commercial Street  
P.O. Box 369  
Marblehead, Massachusetts 01945

By:   
Robert V. Jolly, General Manager

## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 68  
Cancels MDTE - 58

### Rate C

Available for all purposes other than domestic uses where the monthly demand equals or exceeds 30 kilowatts for three consecutive months, provided that all electricity to any customer is delivered at a single location and furnished through one service and one meter unless any alternative electrical connection is determined by the Department to be more convenient

#### Monthly Charge

Basic Monthly Charge	\$ 10.00	per Month
Monthly Demand Charge	\$ 5.70	per kilowatt
All kilowatt-hours	\$ 0.11	per kilowatt-hour

Minimum Monthly Charge \$ 55.00 per Month

#### Measurement of Demand

Demand shall be the highest 15 minute kilowatt registration occurring in the billing month

#### Terms and Conditions

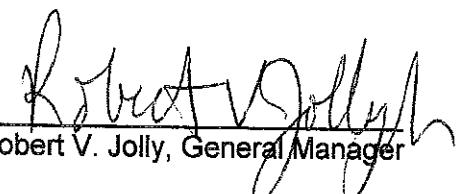
The Department's terms and conditions in effect from time to time where not inconsistent with any specific provision of this tariff are part of this tariff.

All kilowatt-hour usage under this tariff is subject to the Purchase Power Adjustment Clause, MDPU - 74

All Terms and Conditions of this tariff are subject to applicable law

The minimum term of service under this tariff is one year

Marblehead Municipal Light Department  
80 Commercial Street  
P.O. Box 369  
Marblehead, Massachusetts 01945

By:   
Robert V. Jolly, General Manager

## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

Cancels MDPU - 69  
MDTE - 59

### Rate F

Available for all lighting of private areas provided that any and all poles meet Department standards and are installed prior to service commencement

### Equipment and Service Provided

The Department will furnish and install a standard street light fixture with necessary wiring and will replace bulbs and furnish the electricity to operate the lights during the same daily hours as the streetlights. The customer is obligated to notify the Department when a bulb is broken or burnt out. No credit will be given for the time a unit is inoperative because of lack of notification.

	<u>Approximate Lumens</u>	<u>Monthly kWh</u>	<u>Basic Monthly Charge</u>
<u>High Pressure Sodium</u>			
70 Watt	5220	30	\$ 5.30
150 Watt	8850	61	\$ 11.25
250 Watt	24750	110	\$ 18.60
400 Watt	45000	160	\$ 29.65

### Metal Halide

175 Watt	10350	70	\$ 13.65
250 Watt	17000	100	\$ 20.15
400 Watt	28800	160	\$ 31.65

### Mercury Vapor (existing customers only – no new installations)

175 Watt Street Type	6800	72	\$ 12.00
400 Watt Flood Type	18400	154	\$ 27.30
1000 Watt Flood Type	46000	374	\$ 65.50

### Quartz Iodine (existing customers only – no new installations)

500 Watt Flood Type	10500	170	\$ 32.80
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### Incandescent (existing customers only – no new installations)

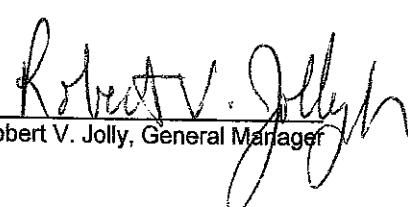
60 Watt	750	21	\$ 4.00
75 Watt	950	26	\$ 4.95
150 Watt	2050	52	\$ 10.75

### Terms and Conditions

The Department's terms and conditions in effect from time to time where not inconsistent with any specific provision of this tariff are part of this tariff.

All kilowatt-hour usage under this tariff is subject to the Purchase Power Adjustment Clause, MDPU - 74

Marblehead Municipal Light Department  
80 Commercial Street  
P.O. Box 369  
Marblehead, Massachusetts 01945

By:   
Robert V. Jolly, General Manager

## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 70  
Cancels MDTE - 60

### Rate G - (Existing Customers – No New Installations)

Available for electricity used for heating water in approved storage type tanks of not less than 50 gallons capacity, where conditions permit supplying such water heating during off-peak hours without requiring additional distribution investment by the Department, subject to the following conditions:

- 1) Heating element capacity shall be not less than 4500 Watts
- 2) The customer shall wire to the water heater using approved cable or conduit and provide a trough with wire to a separate meter socket. The meter and time control will be supplied by the Department
- 3) Service will be supplied under this tariff only during such hours as the Department may determine from time to time to meet conditions affecting the spare capacity available for this service but, in any event, not less than eighteen (18) hours daily

### Monthly Charge

Basic Monthly Charge	\$ 4.25	per Month
All kilowatt-hours	\$ 0.101	per kilowatt-hour

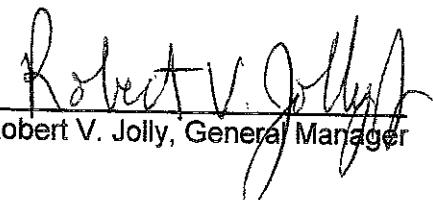
### Terms and Conditions

The Department's terms and conditions in effect from time to time where not inconsistent with any specific provision of this tariff are part of this tariff.

All kilowatt-hour usage under this tariff is subject to the Purchase Power Adjustment Clause,  
MDPU - 74

All Terms and Conditions of this tariff are subject to applicable law

Marblehead Municipal Light Department  
80 Commercial Street  
P.O. Box 369  
Marblehead, Massachusetts 01945

By:   
Robert V. Jolly, General Manager

## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 71  
Cancels MDTE - 61

### Rate S - (Existing Customers – No New Installations)

Available for electricity used for electric thermal storage in approved storage heat tanks in a domestic single private dwelling or individual apartment during off-peak hours without requiring additional distribution investment by the Department, subject to the following conditions:

- 1) The customer shall wire to the storage heater using approved cable or conduit and provide a trough with wire to a separate meter socket. The meter and time control will be supplied by the Department
- 2) Service will be supplied under this tariff only during such hours as the Department may determine from time to time to meet conditions affecting the spare capacity available for this service but, in any event, not less than twelve (12) hours daily

### Monthly Charge

Basic Monthly Charge	\$ 4.25	per Month
All kilowatt-hours	\$ 0.101	per kilowatt-hour

### Terms and Conditions

The Department's terms and conditions in effect from time to time where not inconsistent with any specific provision of this tariff are part of this tariff.

All kilowatt-hour usage under this tariff is subject to the Purchase Power Adjustment Clause, MDPU - 74

All Terms and Conditions of this tariff are subject to applicable law

Marblehead Municipal Light Department  
80 Commercial Street  
P.O. Box 369  
Marblehead, Massachusetts 01945

By:

Robert V. Jolly, General Manager

## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 72  
Cancels MDTE - 62

### Rate EV

Available for electricity used for the sole purpose of charging and/or re-charging of an all electric vehicle owned and operated by the customer of record. The vehicle must be registered as a private or commercial vehicle in the Commonwealth of Massachusetts, subject to the following conditions:

- 1) The customer shall be responsible for supplying an approved separate service and a Department approved meter socket for the installation of an interruptible meter and control switch. The location of the service and meter socket must be adjacent to the existing location unless otherwise determined by the Department. All installations must be approved by the local inspector of Wires
- 2) Service will be supplied under this tariff will be subject to interruption at the sole discretion of the Department. It is the intent of the department, however, to have electric service available for use under this tariff between the hours of 11:00 P.M. and 7:00 A.M. daily

### Monthly Charge

Basic Monthly Charge	\$ 4.25	per Month
All kilowatt-hours	\$ 0.101	per kilowatt-hour

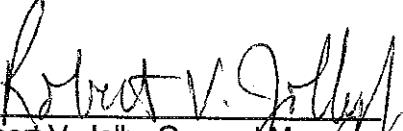
### Terms and Conditions

The Department's terms and conditions in effect from time to time where not inconsistent with any specific provision of this tariff are part of this tariff.

All kilowatt-hour usage under this tariff is subject to the Purchase Power Adjustment Clause, MDPU - 74

All Terms and Conditions of this tariff are subject to applicable law

Marblehead Municipal Light Department  
80 Commercial Street  
P.O. Box 369  
Marblehead, Massachusetts 01945

By:   
Robert V. Jolly, General Manager

## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 73  
Cancels MDTE - 63

### Hydro Power Adjustment Clause

The hydro power cost savings adjustment (credit) is applicable only to residential rate schedule A, MDPU 66.

The calculated power supply cost savings to the Department from its allocation of hydroelectric power from the Power Authority of New York (NYPA) shall be credited to residential customers on Schedule A as governed by Federal and State regulations. The savings per household shall be shown as a "Hydro Credit" item on the bill.

The determination of the Hydro Credit shall be made by calculating, in dollars, the reduction in the monthly power supply and transmission cost which has resulted from the Department's allocation of NYPA energy and capacity in the second preceding month to the current billing month.

### Terms and Conditions

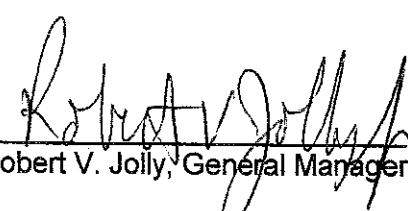
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## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 74  
Cancels MDTE - 64

### Purchase Power Adjustment Clause

The Purchase Power Adjustment Clause is applicable to all filed retail schedules excepting MDPU - 73.

The Purchase Power Adjustment is determined by calculating the total cost of power to the Department in the second preceding billing month, in dollars and \$/kilowatt-hour. If the calculated \$/kilowatt-hour are greater or less the embedded power cost recovered in each retail tariff, the Department may add a charge or credit respectively, on a per kilowatt-hour basis, to each kilowatt-hour of metered consumption in the billing month. The calculation is as follows:

$$\text{Purchase Power Adjustment } (\$/\text{kWh}) = [(A / B) - C]$$

Where:

A = The total dollars of all purchased power and transmission bills adjusted for NYPA power pursuant to MDPU - 73, Accounts 555, 557 and 565;

B = The forecast of total kilowatt-hours to be billed in the period;

C = The average cost of power embedded in all applicable rate schedules in \$/kWh.

### Terms and Conditions

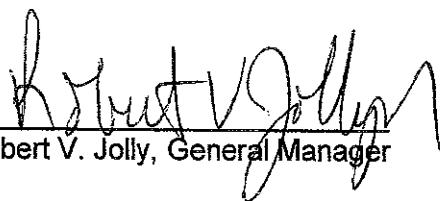
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## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 75  
Cancels New

### PV Credit

The photovoltaic (PV) credit is applicable to solar arrays of 10 kW or less.

- 1) The customer shall be responsible for supplying a Department approved meter socket with separate disconnect switch. The Department will install a bi-directional meter to measure the delivered and received kilowatt-hours. The Department may charge customers for costs associated with installing additional meter requirements.

### Monthly Charge

Basic Monthly Charge \$ 0.00

(If separate meter and socket) \$ 4.25 per Month

### Monthly Credit

All kilowatt-hours received \$ 0.099 per kilowatt-hour  
from the customer

### Terms and Conditions

The Department's terms and conditions in effect from time to time where not inconsistent with any specific provision of this tariff are part of this tariff.

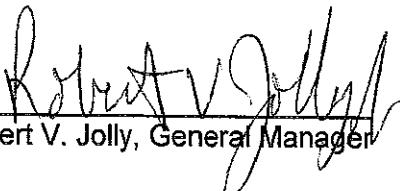
All kilowatt-hour usage under this tariff is subject to the Purchase Power Adjustment Clause, MDPU - 74

All Terms and Conditions of this tariff are subject to applicable law

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## MARBLEHEAD MUNICIPAL LIGHT DEPARTMENT

Issued: April 22, 2011  
Effective: June 01, 2011

MDPU - 76  
Cancels  
New

### Rate CPP

Available for lighting, space heating, water heating and all other domestic uses in a single private dwelling or individual apartment. The Critical Peak Period will only occur between the hours of 12pm and 6pm on twelve non-holiday weekdays during the months of June, July, and August.

<u>Monthly Charge</u>	<u>Winter</u> Sep – May	<u>Summer</u> Jun - Aug
Basic Monthly Charge	\$ 4.25 per Month	\$ 4.25 per Month
Non CPP kilowatt-hours	\$ 0.1425 per kilowatt-hour	\$ 0.09 per kilowatt-hour
CPP kilowatt-hours	N/A	\$ 1.05 per kilowatt-hour

### Terms and Conditions

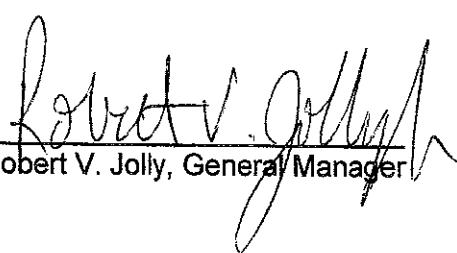
The Department's terms and conditions in effect from time to time where not inconsistent with any specific provision of this tariff are part of this tariff.

All kilowatt-hour usage under this tariff is subject to the Purchase Power Adjustment Clause, MDPU - 74

All Terms and Conditions of this tariff are subject to applicable law

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**LEGAL NOTICE**  
Marblehead Municipal Light Department  
Notice of Changes to the Schedule of Prices for Electricity

Notice is hereby given by the Marblehead Municipal Light Department of changes to its schedule of prices for electricity as filed with the Massachusetts Department of Public Utilities, April 22, 2011 to become effective June 1, 2011, as follows:

Rate A (MDPU – 66) Residential Service

Basic Monthly Charge \$ 4.25  
All Kilowatt-hours \$ 0.1425

### Rate B (MDPU – 67) Small Commercial Service

Basic Monthly Charge \$ 5.00  
All Kilowatt-hours \$ 0.15

### Rate C (MDPU – 68) Large Commercial Service

Basic Monthly Charge	\$ 10.00
All kilowatts	\$ 5.70
All Kilowatt-hours	\$ 0.11
Minimum Monthly Charge	\$ 55.00

**Rate G (MDPU – 70) Off Peak Water Heating (closed to new customers)**

Basic Monthly Charge \$ 4.25  
All Kilowatt-hours \$ 0.101

### Rate F (MDPU – 69) Private Area Lighting

70 W HPS \$ 5.30/Mo	175 W MH \$ 13.65/Mo
150 W HPS \$ 11.25/Mo	250 W MH \$ 20.15/Mo
250 W HPS \$ 18.60/Mo	400 W MH \$ 31.65/Mo
400 W HPS \$ 29.65/Mo	

(the following services are closed to new customers)

500 W Q	\$ 32.80/Mo	60 W IN	\$ 4.00/Mo
175 W MV	\$ 12.00/Mo	75 W IN	\$ 4.95/Mo
400 W MV	\$ 27.30/Mo	150W IN	\$ 10.75/Mo
1000 W MV	\$ 65.50/Mo		

Rate S (MDPU – 71) Domestic Storage Heating (closed to new customers)

Basic Monthly Charge \$ 4.25  
All Kilowatt-hours \$ 0.101

Rate EV (MDPU – 62) Electric Vehicle Service

Basic Monthly Charge \$ 4.25  
All Kilowatt-hours \$ 0.101

### Rate HPA (MDPU - 73) Hydro Power Adjustment

Applicable to MDP II – 66 No Change

#### Rate PPA (MDPPI - 74) Purchase Power Adjustment

The Purchase Power Adjustment (PPA) is applicable to all filed retail rate schedules excepting MDPL-73.

#### Rate PV (MDRLL – 75) Photovoltaic Credit

Basic Monthly Charge	\$ 0.00
(If separate meter and socket)	\$ 4.25
All Kilowatt-hours received from the customer	\$ 0.099

Rate CPP (MDPU – 76) Critical Peak Pricing

	<u>Winter</u> Sep – May	<u>Summer</u> Jun - Aug
Basic Monthly Charge	\$ 4.25	\$ 4.25
Non CPP kilowatt-hours	\$ 0.1425	\$ 0.09
CPP kilowatt-hours	N/A	\$ 1.05