

The Commonwealth of Massachusetts

RETURN

OF THE

TOWN OF

MERRIMAC, MASSACHUSETTS

TO THE

**DEPARTMENT OF
TELECOMMUNICATIONS & ENERGY**

OF MASSACHUSETTS

For the Year Ended December 31,

2018

Name of officer to whom correspondence should be addressed regarding this report: *Francisco A. Frias*

Official Title: *Manager*

Official Address: *10 West Main Street
Merrimac, MA 01860*

GENERAL INFORMATION

1. Name of town (or city) making report.	Merrimac, MA
2. If the town (or city) has acquired a plant: Kind of plant, whether gas or electric Owner from whom purchased, if so acquired	Electric
Date of votes to acquire 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:	
Francisco Frias- 6 West Parish Ridge Rd. Haverhill, MA 01832	
4. Name and address of mayor or Selectmen:	
Joel Breen - 54 Orchard St. Merrimac, MA 01860 Ralph Spencer - 8 Winter St. Merrimac, MA 01860 Carol Traynor- 37 Bear Hill Rd. Merrimac, MA 01860	
5. Name and address of town (or city) treasurer:	
Carol McLeod - 12 Newton Rd. Haverhill, MA 01830	
6. Name and address of town (or city) clerk:	
Gwendolyn Lay - 3 Winter St. Merrimac, MA 01860	
7. Names and addresses of members of municipal light board:	
Norman Denault - 2 Spring St. Merrimac, MA 01860 Larry Fisher - 5 Willowdale Dr. Merrimac, MA 01860 Paula Hamel - 64 Hadley Rd. Merrimac, MA 01860	
8. Total valuation of estates in town (or city) according to last State Valuation:	\$ 818,113,309.00
9. Tax rate for all purposes during the year	\$ 15.79
10. Amount of manager's salary	\$ 128,479.00
11. Amount of manager's bond	\$ 10,000.00
12. Amount of salary paid to members of Municipal Light Board (each)	\$ 1,431.56

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

		Amount
INCOME FROM PRIVATE CONSUMERS:		
1	From sales of gas.....	
2	From sales of electricity.....	4,955,644.52
3	TOTAL	4,955,644.52
4		
5	EXPENSES:	
6	For operation, maintenance, and repairs.....	4,469,555.39
7	For interest on bonds, notes or scrip.....	27,712.24
8	For depreciation fund (3% on \$10,024,487.56 as per P.8B).....	325,903.43
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	75,000.00
12	For loss in preceding year.....	
13	TOTAL	4,898,171.05
14		
15	COST:	
16	Of gas to be used for municipal buildings.....	
17	Of gas to be used for street lights.....	
18	Of electricity to be used for municipal buildings.....	286,451.17
19	Of electricity to be used for street lights.....	6,149.32
20	Total of above items to be included in the tax levy.....	292,600.50
21		
22	New construction to be included in the tax levy.....	
23	Total amounts to be included in the tax levy.....	292,600.50

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
		Merrimac	2,929
TOTAL		TOTAL	
		2,929	

APPROPRIATIONS SINCE BEGINNING OF YEAR

(Include also all items charged direct to tax levy, evn where no appropriation is made or required.)

FOR CONSTRUCTION OR PURCHASE OF PLANT:

- *At meeting 20 ,to be paid from !
- *At meeting 20 ,to be paid from !

\$ _____

TOTAL \$ _____

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

1. Streetlights.....	\$	6,149.32
2. Municipal buildings.....	\$	286,451.17
3. TOTAL	\$	<u>292,600.50</u>

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

CHANGES IN PROPERTY

1. Describe briefly all the important physical changes in the property during the last fiscal period including additions, alterations or imporvents to the works or physical property retired.

In Electric Property:

In Gas Property:

BONDS (Issued on Account of Gas or Electric Lighting)							
When Authorized *	Date of Issue	Amount of Original Issues !	Periods of Payments		Interest		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
01/03/04	01/15/04	11,000.00					
03/15/51	08/15/51	20,000.00					
05/04/86	06/30/86	300,000.00					
10/15/07	02/15/08	1,500,000.00	75,000.00	December 15th	3.25% - 4%	Semi-Annually	675,000.00
TOTAL		1,831,000.00				TOTAL	675,000.00

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

* Date of meeting and wether regular or special ! List original issues of bonds and notes including those that have been retired.

TOWN NOTES (ISSUED ON ACCOUNT OF GAS OR ELECTRIC LIGHTING)						
When Authorized *	Date of Issue	Amount of Original Issues !	Periods of Payments		Interest When Payable	Amount Outstanding at End of Year
			Amounts	When Payable Rate		
31-Dec-08	15-Jan-09	6,000.00				
14-Jan-14	1-Jun-14	700.00				
5-Jan-91	15-Feb-91	125,000.00				
30-Oct-99	15-Dec-00	640,000.00				
14-Aug-01	15-Dec-01	166,692.00				
TOTAL			938,392.00			TOTAL

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

* Date of meeting and wether regular or special ! List original issues of bonds and notes including those that have been retired.

TOTAL COST OF PLANT - ELECTRIC (Continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams, and Waterways.....						
5	333 Water Wheels, Turbines, and Generators...						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads, and Bridges.....						
9	Total Hydraulic Production Plant						
10	D. Other Production Plant						
11	340 Land and Land Rights.....						
12	341 Structures and Improvements.....						
13	342 Fuel Holders, Producers, and Accessories						
14	343 Prime Movers.....						
15	344 Generators.....						
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	Total Other Production Plant						
19	Total Production Plant						
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....						
22	351 Clearing Land and Rights of Way.....						
23	352 Structures and Improvements.....						
24	353 Station Equipment.....						
25	354 Towers and Fixtures.....						
26	355 Poles and Fixtures.....	188,299.87					188,299.87
27	356 Overhead Conductors and Devices.....	96,804.77					96,804.77
28	357 Underground Conductors.....						
29	358 Underground Conductors and Devices.....						
30	359 Roads and Trails.....						
31	Total Transmission Plant	285,104.64	0.00	0.00	0.00	0.00	285,104.64

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	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights.....	2,091.54					2,091.54
3	361 Structures and Improvements.....	6,564.91					6,564.91
4	362 Station Equipment.....	2,493,743.68					2,493,743.68
5	363 Storage Battery Equipment.....						
6	364 Poles, Towers, and Fixtures.....	853,459.03	17,137.74	23,200.00			847,396.77
7	365 Overhead Conductors and Devices.....	2,433,456.60	66,918.22	10,594.00			2,489,780.82
8	366 Underground Conduits.....	307,151.10					307,151.10
9	367 Underground Conductors and Devices.....	300,934.32	46,259.73				347,194.05
10	368 Line Transformers.....	797,487.47	61,259.44	3,950.00			854,796.91
11	369 Services.....	336,120.94	6,219.59	600.00			341,740.53
12	370 Meters.....	409,012.51	2,546.00	900.00			410,658.51
13	371 Installation on Customers' Premises.....						
14	372 Leased Property on Customers' Premises..						
15	373 Street Light and Signal Systems.....	422,795.35	21,481.21	29,690.00			414,586.56
16	Total Distribution Plant.....	8,362,817.45	221,821.93	68,934.00	0.00	0.00	8,515,705.38
17	5. GENERAL PLANT						
18	389 Land and Land Rights.....	110,000.00					110,000.00
19	390 Structures and Improvements.....	776,979.03					776,979.03
20	391 Office Furniture and Equipment.....	114,209.43	7,147.14				121,356.57
21	392 Transportation Equipment.....	855,140.79	298.98				855,439.77
22	393 Stores Equipment.....	0.00					0.00
23	394 Tools, Shop, and Garage Equipment.....	219,711.39	4,313.84				224,025.23
24	395 Laboratory Equipment.....	24,357.88	842.23				25,200.11
25	396 Power Operated Equipment.....						
26	397 Communication Equipment.....	31,894.60	407.00				32,301.60
27	398 Miscellaneous Equipment.....	28,502.31	924.53				29,426.84
28	399 Other Tangible Property.....						
29	Total General Plant.....	2,160,795.43	13,933.72	0.00	0.00	0.00	2,174,729.15
30	Total Electric Plant in Service.....	10,808,717.52	235,755.65	68,934.00	0.00	0.00	10,975,539.17
31	Total Cost of Electric Plant.....						10,975,539.17
32							
33	Less Cost of Land, Land Rights, Rights of Way.....						112,091.54
34	Total Cost upon which Depreciation is Based.....						10,863,447.63
	The above figures should show the original cost of the existing property. In case any part of the property is sold or retired, the cost of such property should be deducted from the cost of the plant. The net cost of the property, less the land values, should be taken as a basis for figuring depreciation.						
		\$10,863,447.63	X 3% =				\$325,903.43

COMPARATIVE BALANCE SHEET: Assets and Other Debits				
Line No.	Title of Account a)	Balance (Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	UTILITY PLANT			
2	101 Utility Plant - Electric (P.17).....	4,919,844.35	4,802,724.26	(117,120.09)
3	101 Utility Plant - gas (P.20).....			
4				
5	Total Utility Plant.....	4,919,844.35	4,802,724.26	(117,120.09)
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds.....	719.17	719.17	0.00
13	126 Depreciation Fund (P.14).....	2,704,052.73	2,817,116.95	113,064.22
	127 OPEB Trust Fund.....	269,328.09	279,159.21	9,831.12
14	128 Other Special Funds.....	293,026.04	281,221.11	(11,804.93)
15	Total Funds.....	3,267,126.03	3,378,216.44	111,090.41
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P.14).....	1,304,817.28	1,312,829.79	8,012.51
18	132 Special Deposits.....	85,527.07	88,677.07	3,150.00
19	132 Working Funds.....	200.00	200.00	0.00
20	141 Notes Receivable.....			0.00
21	142 Customer Accounts Receivable.....	188,504.96	203,898.08	15,393.12
22	143 Other Accounts Receivable.....	0.00	0.00	0.00
23	146 Receivables from Municipality.....			0.00
24	151 Materials and Supplies (P.14).....	15,001.94	15,001.94	0.00
25				0.00
26	165 Prepayments.....	522,057.54	521,262.68	(794.86)
27	174 Miscellaneous Current Assets.....	266.96	226.71	(40.25)
28	Total Current and Accrued Assets.....	2,116,375.75	2,142,096.27	25,720.52
29	DEFERRED DEBITS			
30	181 Unamortized Debt Discount.....			
31	182 Extraordinary Property Losses.....			
32	183 Other Deferred Debits.....			
33	Total Deferred Debits.....			
34				
35	Total Assets and other Debits.....	10,303,346.13	10,323,036.97	19,690.84

STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Total	
		Current Year (b)	Increase or (Decrease) from Preceding Year (c)
1	OPERATING INCOME		
2	400 Operating Revenue (P.37 and 43).....	5,039,816.60	154,027.30
3	Operating Expenses:		
4	401 Operation Expense (P.42 and 47).....	4,391,324.85	235,514.04
5	402 Maintenance Expense (P.42 and 47).....	177,073.34	(28,727.88)
6	403 Depreciation Expense.....	342,281.74	(33,686.73)
7	407 Amortization Property Losses.....		
8			
9	408 Taxes (P.49).....		
10	Total Operating Expenses.....	4,910,679.93	173,099.43
11	Operating Income.....	129,136.67	(19,072.13)
12	414 Other Utility Operating Income (P.50).....		
13			
14	Total Operating Income.....	129,136.67	(19,072.13)
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (P.51)		
17	419 Interest Income.....	(107,057.43)	(298,713.90)
18	421 Miscellaneous Nonoperating Income.....		
19	Total Other Income.....	(107,057.43)	(298,713.90)
	Total Income.....	22,079.24	(317,786.03)
20			
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Amortization.....		
23	426 Other Income Deductions.....		
24	Total Income Deductions.....		
25	Income before Interest Charges.....	22,079.24	(317,786.03)
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes.....	29,512.50	(3,375.00)
28	428 Amortization of Debt Discount and Expense.....		
29	429 Amortization of Premium on Debt - Credit.....		
30	431 Other Interest Expenses.....		
31	432 Interest Charged to Construction - Credit.....		
32	Total Interest Charges.....	29,512.50	(3,375.00)
33	NET INCOME	(7,433.26)	(314,411.03)

EARNED SURPLUS

Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period).....		5,154,848.72
35			
36			
37	433 Balance Transferred from Income.....		(7,433.26)
38	434 Miscellaneous Credits to Surplus.....		27,500.00
39	435 Miscellaneous Debits to Surplus.....	107,306.00	
40	436 Appropriations of Surplus.....	16,242.98	
41	437 Surplus Applied to Depreciation.....		
42	208 Unappropriated Earned Surplus (at end of period).....	5,051,366.48	
43			
44	Totals	5,174,915.46	5,174,915.46

CASH BALANCES AT END OF YEAR (Account 131)		
Line No.	Items (a)	Amount (b)
1	Operation Fund.....	1,312,829.79
2	Interest Fund.....	
3	Bond Fund.....	
4	Construction Fund.....	
5	Rate Stabilization Fund.....	281,221.11
6		
7		
8		
9		
10		
11		
12	Total	1,594,050.90

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, P.25).....		
14	Fuel Stock Expenses (Account 152).....		
15	Residuals (Account 153).....		
16	Plant Materials and Operating Supplies (Account 154).....	15,001.94	
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 \$.....	15,001.94	

DEPRECIATION FUND ACCOUNT (Account 136)

Line No.	(a)	Amount (b)
24	DEBITS	
25	Balance of Account at Beginning of Year.....	2,704,052.73
26	Income During Year from Balance on Deposit.....	(93,177.61)
27	Amount Transferred from Income.....	320,898.74
28	Total	2,931,773.86
29		
30	CREDITS	
31	Amount Expended for Construction Purposes (Sec. 57, Ch. 164 of G.L.).....	114,656.91
32	Amounts Expended for Renewals, viz:-	
33		
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year.....	2,817,116.95
40	Total	2,931,773.86

UTILITY PLANT - ELECTRIC (Continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams, and Waterways.....						
5	333 Water Wheels, Turbines, and Generators..						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads, and Bridges.....						
9	Total Hydraulic Production Plant.....						
10	D. Other Production Plant						
11	340 Land and Land Rights.....						
12	341 Structures and Improvements.....						
13	342 Fuel Holders, Producers, and Accessories						
14	343 Prime Movers.....						
15	344 Generators.....						
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant.....						
19	Total Production Plant.....						
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....						
22	351 Clearing Land and Rights of Way.....						
23	352 Structures and Improvements.....						
24	353 Station Equipment.....						
25	354 Towers and Fixtures.....						
26	355 Poles and Fixtures.....	144,779.96	0.00	5,649.00	0.00		139,130.96
27	356 Overhead Conductors and Devices.....	27,517.96	0.00	2,904.12	0.00		24,613.84
28	357 Underground Conductors.....						
29	358 Underground Conductors and Devices.....						
30	359 Roads and Trails.....						
31	Total Transmission Plant.....	172,297.92	0.00	8,553.12	0.00		163,744.80

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)
4. DISTRIBUTION PLANT							
1	360 Land and Land Rights.....	2,091.54		196.92			2,091.54
2	361 Structures and Improvements.....	(317.08)					(514.00)
3	362 Station Equipment.....	1,200,123.21	0.00	74,812.33			1,125,310.88
4	363 Storage Battery Equipment.....	0.00					0.00
5	364 Poles, Towers, and Fixtures.....	229,820.91	17,137.74	2,403.78	23,200.00	0.00	221,354.87
6	365 Overhead Conductors and Devices.....	1,156,391.72	66,918.22	73,003.70	10,594.00	0.00	1,139,712.24
7	366 Underground Conduits.....	66,086.93	0.00	9,214.53	0.00	0.00	56,872.40
8	367 Underground Conductors and Devices.....	132,706.18	46,259.73	9,028.05	0.00	0.00	169,937.86
9	368 Line Transformers.....	355,686.71	61,259.44	19,974.64	3,950.00	0.00	393,021.51
10	369 Services.....	59,504.07	6,219.59	9,483.59	600.00	0.00	55,640.07
11	370 Meters.....	307,830.15	2,546.00	11,973.38	900.00	0.00	297,502.77
12	371 Installation on Customers' Premises.....						
13	372 Leased Property on Customers' Premises.....						
14	373 Street Light and Signal Systems.....	128,899.03	21,481.21	3,773.88	29,690.00		116,916.36
15	Total Distribution Plant.....	3,638,823.37	221,821.93	213,864.80	68,934.00	0.00	3,577,846.50
16							
17	5. GENERAL PLANT						
18	389 Land and Land Rights.....	110,000.00	0.00				110,000.00
19	390 Structures and Improvements.....	301,107.44	0.00	23,309.39	0.00		277,798.05
20	391 Office Furniture and Equipment.....	2,539.38	7,147.14	3,426.25	0.00		6,260.27
21	392 Transportation Equipment.....	549,330.68	298.98	25,654.21	0.00		523,975.45
22	393 Stores Equipment.....				0.00		
23	394 Tools, Shop, and Garage Equipment.....	100,064.97	4,313.84	6,591.36	0.00		97,787.45
24	395 Laboratory Equipment.....	17,475.81	842.23	730.70	0.00		17,587.34
25	396 Power Operated Equipment.....				0.00		
26	397 Communication Equipment.....	1,782.57	407.00	956.88	0.00		1,232.69
27	398 Miscellaneous Equipment.....	26,422.21	924.53	855.03	0.00		26,491.71
28	399 Other Tangible Property.....				0.00		
29	Total General Plant.....	1,108,723.06	13,933.72	61,523.82	0.00	0.00	1,061,132.96
30	Total Electric Plant in Service.....	4,919,844.35	235,755.65	283,941.74	68,934.00	0.00	4,802,724.26
31	104 Utility Plant Leased to Others.....						
32	105 Property Held for Future Use.....						
33	107 Construction Work in Progress.....						
34	Total Utility Plant Electric.....	4,919,844.35	235,755.65	283,941.74	68,934.00	0.00	4,802,724.26

MISCELLANEOUS NONOPERATING INCOME (Account 421)		
Line No.	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6		
	TOTAL	
OTHER INCOME DEDUCTIONS (Account 426)		
Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14		
	TOTAL	
MISCELLANEOUS CREDITS TO SURPLUS (Account 434)		
Line No.	Item (a)	Amount (b)
15		
16		
17		
18		
19	OPEB Appropriated surplus	27,500.00
20		
21		
22		
23		
	TOTAL	27,500.00
MISCELLANEOUS DEBITS TO SURPLUS (Account 435)		
Line No.	Item (a)	Amount (b)
24	Bond and Note Payments	75,000.00
25	Increase of OPEB Liability	32,306.00
26		
27		
28		
	TOTAL	107,306.00
APPROPRIATIONS OF SURPLUS (Account 436)		
Line No.	Item (a)	Amount (b)
29	In Lieu of Tax Payment	16,242.98
30		
31		
32		
	TOTAL	16,242.98

MUNICIPAL REVENUES (Account 482, 444)					
(K.W.H. sold under the provision of Chapter 269, Acts of 1927)					
Line No.	Acc't No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue per M.C.F. (d)
1	482				
2					
3					
4		TOTALS			
		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue per K.W.H. (d)
5	444	Municipal: (Other Than Street Lighting):	1,679,869	287,000.20	0.1708
6					
7					
8					
9					
10					
11					
12		TOTALS	1,679,869	287,000.20	0.1708
13					
14		Street Lighting:	60,630	6,242.98	0.1030
15					
16					
17					
18		TOTALS	60,630.00	6,242.98	0.1030
19		TOTALS	1,740,499.00	293,243.18	0.1685

PURCHASED POWER (Account 555)					
Line No.	Name of Utility from which Electric Energy is Purchased (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Cost per K.W.H. (e)
20		Burnside Lane			
21		23,000 Volts			
22	ISO of Energy New England		2,518,266	2,089,566.42	0.8298
23	Shell		14,336,198	711,257.56	0.0496
24	NYPA		2,584,837	77,303.29	0.0299
25	Brown Bear II		809,740	39,994.77	0.0494
26	Spruce Mountain Wind		856,741	85,031.52	0.0992
27	NextEra		5,840,000	160,895.58	0.0276
28	National Grid			71,725.86	
29	Canton Mountain Wind		609,842.00	60,854.51	
30	Brown Bear II, Saddleback & Spruce			(8,948.50)	
31	Northeast Utilities			634.00	
32	Merrimac Solar-ConSolidated Edison		2,218,200	122,000.96	0.0550
33	Saddleback Ridge Wind		809,628	74,956.32	0.0926
34	Duke Energy		214,503	114,024.83	0.8584
35		TOTALS	30,797,955	3,599,297.12	0.1169

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 K.W.H. (e)
36					
37					
38					
39		TOTALS			

SALE OF ELECTRICITY TO ULTIMATE CONSUMERS

Report by account 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 Number	Schedule	K.W.H.	Revenue	Average Revenue per K.W.H. (cents)	Number of Customers (per Bills rendered)	
						July 31	December 31
1	440.1	Rate - B	20,782,363	3,658,519.34	17.6040	2,604	2,597
2	440.2	Rate - C	1,651,103	276,659.85	16.7561	76	75
3	442.1	Rate - F1	1,807,819	362,598.27	20.0572	30	31
4	442.3	Rate - F	1,232,781	246,059.54	19.9597	151	157
5	442.4	Rate - F2	904,720	175,312.32	19.3775	2	2
6	444.1	Municipal	1,679,869	287,000.20	17.0847	31	31
7	444	Street Lights Municipal	60,630	6,242.98	10.2968	1	1
8	445.1	Private Area Lights	92,948	16,947.99	18.2338	89	89
Total Sales to Ultimate Consumers (P.37 L.11)			28,212,233	5,029,340	17.8268	2,984	2,983

ELECTRIC OPERATION AND MAINTENANCE EXPENSES			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	HYDRAULIC POWER GENERATION - Continued	\$	\$
2	Maintenance:		
3	541 Maintenance Supervision and Engineering.....		
4	542 Maintenance of Structures.....		
5	543 Maintenance of Reservoirs, Dams, and Waterways.....		
6	544 Maintenance of Electric Plant.....		
7	545 Maintenance of Miscellaneous Hydraulic Plant.....		
8	Total Maintenance.....		
9	Total Power Production Expenses - Hydraulic Power.....		
10	OTHER POWER GENERATION		
11	Operation:		
12	546 Operation Supervision and Engineering.....		
13	547 Fuel.....		
14	548 Generation Expenses.....		
15	549 Miscellaneous Other Power Generation Expenses.....		
16	550 Rents.....		
17	Total Operation.....		
18	Maintenance:		
19	551 Maintenance Supervision and Engineering.....		
20	552 Maintenance of Structures.....		
21	553 Maintenance of generation and electric plant.....		
22	554 Maintenance of miscellaneous other power generation plant.....		
23	Total Maintenance.....		
24	Total Power Production Expenses - Other Power.....		
25	OTHER POWER SUPPLY EXPENSES		
26	555 Purchased Power.....	3,589,630.36	328,672.96
27	556 System Control and Load Dispatching.....		
28	557 Other Expenses.....	56,619.71	(416.29)
29	Total Other Power Supply Expenses.....	3,646,250.07	328,256.67
30	Total Power Production Expenses.....	3,646,250.07	328,256.67
31	TRANSMISSION EXPENSES		
32	Operation:		
33	560 Operation Supervision and Engineering.....		
34	561 Load Dispatching.....		
35	562 Station Expenses.....		
36	563 Overhead Line Expenses.....		
37	564 Underground Line Expenses.....		
38	565 Transmission of Electricity by Others.....		
39	566 Miscellaneous Transmission Expenses.....		
40	567 Rents.....		
41	Total Operation.....		
42	Maintenance:		
43	568 Maintenance Supervision and Engineering.....		
44	569 Maintenance of Structures.....		
45	570 Maintenance of Station Equipment.....		
46	571 Maintenance of Overhead Lines.....		
47	572 Maintenance of Underground Lines.....		
48	573 Maintenance of Miscellaneous Transmission Plant.....		
49	Total Maintenance.....		
50	Total Transmission Expenses.....		

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	DISTRIBUTION EXPENSES	\$	\$
2	Operation:		
3	580 Operation Supervision and Engineering.....		
4	581 Load Dispatching.....	0.00	(1,355.31)
5	582 Station Expenses.....	0.00	(3,567.95)
6	583 Overhead Line Expenses.....	6,121.86	773.06
7	584 Underground Line Expenses.....	9,152.44	23.94
8	585 Street Lighting and Signal System Expenses.....	4,005.41	(6,292.04)
9	586 Meter Expenses.....	2,221.87	(1,201.99)
10	587 Customer Installation Expenses.....	3,262.30	(12,125.60)
11	588 Miscellaneous Distribution Expenses.....	24,007.42	(21,745.50)
12	589 Rents.....		
13	Total Operation.....	48,771.30	(45,491.39)
14	Maintenance:		
15	590 Maintenance Supervision and Engineering.....		
16	591 Maintenance of Structures.....	0.00	(120.00)
17	592 Maintenance of Station Equipment.....	11,097.22	7,348.88
18	593 Maintenance of Overhead Lines.....	95,713.07	6,031.33
19	594 Maintenance of Underground Lines.....	(1,821.38)	(1,980.50)
20	595 Maintenance of Line Transformers.....	1,369.67	1,369.67
21	596 Maintenance of Street Lighting and Signal Systems.....	0.00	0.00
22	597 Maintenance of Meters.....	0.00	54.00
23	598 Maintenance of Miscellaneous Distribution Plant.....	27,419.52	(45,337.14)
24	Total Maintenance.....	133,778.10	(32,633.76)
25	Total Distribution Expenses.....	182,549.40	(78,125.15)
26	CUSTOMER ACCOUNTS EXPENSES		
27	Operation:		
28	901 Supervision.....		
29	902 Meter Reading Expenses.....	10,306.18	(218.10)
30	903 Customer Records and Collection Expenses.....	87,369.42	2,622.41
31	904 Uncollectable Accounts.....	3,940.04	14.49
32	905 Miscellaneous Customer Accounts Expenses.....		
33	Total Customer Accounts Expenses.....	101,615.64	2,418.80
34	SALES EXPENSES		
35	Operation:		
36	911 Supervision.....		
37	912 Demonstrating and Selling Expenses.....		
38	913 Advertising Expenses.....	3,673.37	(2,110.51)
39	916 Miscellaneous Sales Expenses.....		
40	Total Sales Expenses.....	3,673.37	(2,110.51)
41	ADMINISTRATIVE AND GENERAL EXPENSES		
42	Operation:		
43	920 Administrative and General Salaries.....	238,829.08	6,808.01
44	921 Office Supplies and Expenses.....	27,012.06	(17,216.16)
45	922 Administrative Expenses Transferred.....		
46	923 Outside Services Employed.....	30,045.83	(2,663.23)
47	924 Property Insurance.....	6,690.00	6,690.00
48	925 Injuries and Damages.....	18,524.50	(8,619.50)
49	926 Employee Pensions and Benefits.....	263,032.20	(31,129.86)
50	928 Regulatory Commission Expenses.....	0.00	0.00
51	929 Duplicate Charges.....		
52	930 Miscellaneous General Expenses.....	6,880.80	(1,428.79)
53	931 Rents.....	0.00	0.00
54	Total Operation.....	591,014.47	(47,559.53)

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	ADMINISTRATIVE AND GENERAL EXPENSES -- Cont.	\$	\$
2	Maintenance:		
3	932 Maintenance of General Plant.....	9,557.57	2,216.38
4	933 Transportation Expenses.....	33,737.67	1,689.50
5	Total Administrative and General Expenses.....	634,309.71	(43,653.65)
	Total Electric Operation and Maintenance Expenses.....	4,568,398.19	206,786.16

SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	Operation (b)	Maintenance (c)	Total (d)
6	Power Production Expenses			
7	Electric Generation:			
8	Steam Power.....			
9	Nuclear Power.....			
10	Hydraulic Power.....			
11	Other Power.....			
12	Other Power Supply Expenses.....	3,646,250.07		3,646,250.07
13	Total Power Production Expenses.....	3,646,250.07		3,646,250.07
14	Transmission Expenses.....			
15	Distribution Expenses.....	48,771.30	133,778.10	182,549.40
16	Customer Accounts Expenses.....	101,615.64		101,615.64
17	Sales Expenses.....	3,673.37		3,673.37
18	Administrative and General Expenses.....	591,014.47	43,295.24	634,309.71
19	Total Electric Operation and Maintenance Expenses	4,391,324.85	177,073.34	4,568,398.19
20	Ratio of operating expenses to operating revenues (carry out decimal two places) Compute by dividing Revenues (acc 400) into the sum of Operation and Maintenance Expenses (Page 42, line 20 (d), Depreciation (Acct 403) and Amortization (Acct 407)			97.44%
21	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction, and other accounts.....			692,223.39
22	Total number of employees of electric department at end of year including administrative, operating, maintenance, and other employees (including part time employees):			7

ELECTRIC ENERGY ACCOUNT

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

Item (a)	Kilowatt-hours (b)
SOURCES OF ENERGY	
Generation (excluding station use):	
Steam.....	
Nuclear.....	
Hydro.....	
Other.....	
Total Generation.....	
Purchases.....	30,797,955
Interchanges.....	
In (gross)....	
Out (gross)....	
Net (kWh).....	
Received.....	
Transmission for/by others (wheeling).....	
Delivered.....	
Net (kWh).....	
TOTAL	30,797,955
DISPOSITION OF ENERGY	
Sales to ultimate consumers (including interdepartmental sales).....	28,212,233
Sales for resale.....	
Energy furnished without charge.....	
Energy used by the company (excluding station use).....	
Electric Department only.....	67,979
Energy Losses:	
Transmission and conversion losses.....	1,539,898
Distribution losses.....	
Unaccounted for losses.....	977,845
Total Energy Losses.....	2,517,743
Energy losses as percent of total	8.18%
Unaccounted Losses	3.18%
	TOTAL 30,797,955

MONTHLY PEAKS AND OUTPUT

1. Reports hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-hours) for the combined sources of electric energy of respondent. 2. Monthly peak col. (b) should be respondent's maximum kW load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange, minus temporary deliveries (not interchange) of emergency power to another system. Monthly peak including such emergency deliveries should be shown in a footnote with a brief explanation as to the nature of the emergency.

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

System: Merrimac, MA

MONTHLY PEAKS

Month (a)	Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	Monthly Output (kWh) (g)
January	6,455	Monday	1	1900-2000	60 MIN	2,882,842.00
February	5,144	Wednesday	7	1800-1900	60 MIN	2,345,563.00
March	5,510	Friday	9	1500-1600	60 MIN	2,401,090.20
April	4,312	Sunday	15	2000-2100	60 MIN	2,170,634.60
May	5,922	Tuesday	29	1900-2000	60 MIN	2,145,603.30
June	6,389	Saturday	30	1900-2000	60 MIN	2,432,624.90
July	7,639	Thursday	5	2000-2100	60 MIN	3,242,915.82
August	7,767	Tuesday	7	2000-2100	60 MIN	3,335,785.50
September	7,967	Monday	3	1900-2000	60 MIN	2,409,788.94
October	4,269	Sunday	21	1900-2000	60 MIN	2,220,127.91
November	4,718	Wednesday	14	1900-2000	60 MIN	2,481,310.62
December	5,131	Wednesday	26	1900-2000	60 MIN	2,729,667.84
					TOTAL	30,797,955

Annual report Town of Merrimac Municipal Light Department

SUBSTATIONS

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

Line No.	Name and Location of Substation (a)	Character of Substation (b)	Voltage			Capacity of Substation in kva (In Service) (f)	Number of Transformers in Service (g)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number of Units (j)	Total Capacity (k)
1	BURNSIDE LANE, MERRIMAC, MA	DISTRIBUTION UNATTENDED	23,000	4,160		7,500	2	1	NONE		
2	MILL STREET, MERRIMAC, MA	DISTRIBUTION UNATTENDED	23,000	13,800		15,000	2	0			
3											
4						22,500	4	1			

STREET LAMPS CONNECTED TO SYSTEM										
Line No.	City or Town (a)	Total (b)	Type							
			LED		Mercury Vapor		Fluorescent		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Merrimac	618	423	36					57	102
2										
3										
4										
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39										
40										
41										
42										
43	TOTALS	618	423	36					57	102

RATE SCHEDULE INFORMATION				
1. Attach copies of all Filed Rates for General Consumers				
2. Show below the changes in rate schedules during year and the estimated increase or decrease in annual revenue predicated on the previous year's operations.				
Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect on Annual Revenues	
			Increases	Decreases
		COPIES OF RATES ATTACHED		

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

_____ Mayor

Francisco Diaz

Manager of Electric Light

[Signature]

Norman B. Duval

Paula Hernandez

Selectmen or Members of the
Municipal Light Board

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

_____ ss.

_____ 2019

Then personally appeared

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

Notary Public or
Justice of the Peace
