

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,

2016

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:	
Harold Lloyd, Chairperson - 12 Nichols St. Merrimac, MA 01860 Earl Baumgardner - 18 Merrimac St. Merrimac, MA 01860 Andrew D. Connor - 75 West Main St. 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:	\$ 728,461,892.00
9. Tax rate for all purposes during the year	\$ 16.25
10. Amount of manager's salary	\$ 124,594.08
11. Amount of manager's bond	\$ 10,000.00
12. Amount of salary paid to members of Municipal Light Board (each)	\$ 1,031.56

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.....	4,948,683.92
3	TOTAL	4,948,683.92
4		
5	EXPENSES:	
6	For operation, maintenance, and repairs.....	4,635,994.92
7	For interest on bonds, notes or scrip.....	34,050.49
8	For depreciation fund (3% on \$10,024,487.56 as per P.8B).....	308,949.48
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	75,000.00
12	For loss in preceding year.....	
13	TOTAL	5,053,994.89
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.....	288,578.83
19	Of electricity to be used for street lights.....	18,541.09
20	Total of above items to be included in the tax levy.....	307,119.92
21		
22	New construction to be included in the tax levy.....	
23	Total amounts to be included in the tax levy.....	307,119.92

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	2,914
TOTAL		TOTAL	2,914

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.....	\$	18,541.09
2.	Municipal buildings.....	\$	288,578.83
3.		TOTAL	\$ 307,119.92

* 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 improvements to the works or physical property retired.

In Electric Property:

In Gas Property:

Annual report Town of Merrimac Municipal Light Department

BONDS (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		
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	12/15/17	3.38%	06/15/17 12/15/17
TOTAL		1,831,000.00				TOTAL 825,000.00

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
			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						TOTAL
			938,392.00			

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 whether 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 Conduits.....						
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.....	2,485,586.00	6,500.00				2,492,086.00
5	363 Storage Battery Equipment.....						
6	364 Poles, Towers, and Fixtures.....	810,049.50	23,240.37	4,800.00			828,489.87
7	365 Overhead Conductors and Devices.....	2,150,193.88	148,413.35	1,036.50			2,297,570.73
8	366 Underground Conduits.....	307,151.10					307,151.10
9	367 Underground Conductors and Devices.....	275,222.80	25,590.18				300,812.98
10	368 Line Transformers.....	728,061.17	49,810.31	9,400.00			768,471.48
11	369 Services.....	326,260.18	6,785.78	800.00			332,245.96
12	370 Meters.....	404,794.85	2,981.70	750.00			407,026.55
13	371 Installation on Customers' Premises.....						
14	372 Leased Property on Customers' Premises.....						
15	373 Street Light and Signal Systems.....	357,975.74	14,063.40				372,039.14
16	Total Distribution Plant.....	7,853,951.67	277,385.09	16,786.50	0.00	0.00	8,114,550.26
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.....	113,817.51	7,317.50	7,902.00			113,233.01
21	392 Transportation Equipment.....	714,011.79					714,011.79
22	393 Stores Equipment.....	0.00					0.00
23	394 Tools, Shop, and Garage Equipment.....	214,520.55	1,439.07				215,959.62
24	395 Laboratory Equipment.....	20,519.35					20,519.35
25	396 Power Operated Equipment.....						
26	397 Communication Equipment.....	31,894.60					31,894.60
27	398 Miscellaneous Equipment.....	15,779.96	12,375.28				28,155.24
28	399 Other Tangible Property.....						
29	Total General Plant.....	1,997,522.79	21,131.85	7,902.00	0.00	0.00	2,010,752.64
30	Total Electric Plant in Service.....	10,136,579.10	298,516.94	24,688.50	0.00	0.00	10,410,407.54
31	Total Cost of Electric Plant.....						10,410,407.54
32	Less Cost of Land, Land Rights, Rights of Way.....						112,091.54
33	Total Cost upon which Depreciation is Based.....						10,298,316.00
34							

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.

\$10,298,316.00 X 3% = **\$308,949.48**

COMPARATIVE BALANCE SHEET: Assets and Other Debits				
Line No.	Title of Account a)	Balance (Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	UTILITY PLANT			
2	101 Utility Plant - Electric (P.17).....	4,725,639.04	4,722,384.84	(3,254.20)
3	101 Utility Plant - gas (P.20).....			
4				
5	Total Utility Plant.....	4,725,639.04	4,722,384.84	(3,254.20)
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds.....	719.17	719.17	0.00
13	126 Depreciation Fund (P.14).....	2,648,990.33	2,818,186.34	169,196.01
	127 OPEB Trust Fund.....	123,209.02	178,554.50	55,345.48
14	128 Other Special Funds.....	281,149.57	284,968.67	3,819.10
15	Total Funds.....	3,054,068.09	3,282,428.68	228,360.59
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P.14).....	498,870.15	962,460.03	463,589.88
18	132 Special Deposits.....	84,727.07	80,652.07	(4,075.00)
19	132 Working Funds.....	200.00	200.00	0.00
20	141 Notes Receivable.....			0.00
21	142 Customer Accounts Receivable.....	235,935.06	210,775.23	(25,159.83)
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.....	515,444.20	518,004.90	2,560.70
27	174 Miscellaneous Current Assets.....	589.97	560.39	(29.58)
28	Total Current and Accrued Assets.....	1,350,768.39	1,787,654.56	436,886.17
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.....	9,130,475.52	9,792,468.08	661,992.56

COMPARATIVE BALANCE SHEET: Liabilities and Other Credits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	APPROPRIATIONS			
2	201 Appropriations for Construction.....			
3	SURPLUS			
4	205 Sinking Fund Reserves.....			
5	206 Loans Repayments.....	1,816,707.96	1,891,707.96	75,000.00
6	207 Appropriations for Construction Repayments....	8,889.05	8,889.05	0.00
7	208 Unappropriated Earned Surplus (P.12).....	4,271,159.21	4,906,528.38	635,369.17
8	Total Surplus.....	6,096,756.22	6,807,125.39	710,369.17
9	LONG TERM DEBT			
10	221 Bonds (P.6).....	900,000.00	825,000.00	(75,000.00)
11	231 Notes Payable (P.7).....			
12	Total Bonds and Notes.....	900,000.00	825,000.00	(75,000.00)
13	CURRENT AND ACCRUED LIABILITIES			
14	232 Accounts Payable.....	259,604.01	233,020.32	(26,583.69)
15	234 Payables to Municipality.....			
16	235 Customers' Deposits.....	84,727.07	80,652.07	(4,075.00)
17	236 Taxes Accrued.....			
18	237 Interest Accrued.....			
19	242 Miscellaneous Current and Accrued Liabilities	589.97	560.39	(29.58)
20	Total Current and Accrued Liabilities.....	344,921.05	314,232.78	(30,688.27)
21	DEFERRED CREDITS			
22	251 Unamortized Premium on Debt.....			
23	252 Customer Advances for Construction.....	1,220.67	1,220.67	0.00
24	253 Other Deferred Credits.....	420,063.00	420,063.00	0.00
25	Total Deferred Credits.....	421,283.67	421,283.67	0.00
26	RESERVES			
27	260 Reserves for Uncollectable Accounts.....	13,586.20	13,586.20	0.00
28	261 Property Insurance Reserve.....			
29	262 Injuries and Damages Reserves.....			
30	263 Pensions and Benefits.....			
31	265 Miscellaneous Operating Revenues.....			
32	Total Reserves.....	13,586.20	13,586.20	0.00
33	CONTRIBUTIONS IN AID OF CONSTRUCTION			
34	271 Contributions in Aid of Construction.....	1,353,928.38	1,411,240.04	57,311.66
35	Total Liabilities and Other Credits.....	9,130,475.52	9,792,468.08	661,992.56

State below if any earnings 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.

In Lieu of Tax Payment \$ 23,540.44

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).....	4,872,624.00	66,837.90
3	Operating Expenses:		
4	401 Operation Expense (P.42 and 47).....	3,698,305.34	(141,097.88)
5	402 Maintenance Expense (P.42 and 47).....	248,913.46	78,870.44
6	403 Depreciation Expense.....	300,734.64	11,576.88
7	407 Amortization Property Losses.....		
8			
9	408 Taxes (P.49).....		
10	Total Operating Expenses.....	4,247,953.44	(50,650.56)
11	Operating Income.....	624,670.56	117,488.46
12	414 Other Utility Operating Income (P.50).....		
13			
14	Total Operating Income.....	624,670.56	117,488.46
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (P.51)		
17	419 Interest Income.....	99,218.19	92,736.52
18	421 Miscellaneous Nonoperating Income.....		
19	Total Other Income.....	99,218.19	92,736.52
20	Total Income.....	723,888.75	210,224.98
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Amortization.....		
23	426 Other Income Deductions.....		
24	Total Income Deductions.....		
25	Income before Interest Charges.....	723,888.75	210,224.98
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes.....	36,262.50	(2,343.75)
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.....	36,262.50	(2,343.75)
33	NET INCOME	687,626.25	212,568.73
EARNED SURPLUS			
Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period).....		4,271,159.21
35			
36			
37	433 Balance Transferred from Income.....		687,626.25
38	434 Miscellaneous Credits to Surplus.....		46,283.36
39	435 Miscellaneous Debits to Surplus.....	75,000.00	
40	436 Appropriations of Surplus.....	23,540.44	
41	437 Surplus Applied to Depreciation.....		
42	208 Unappropriated Earned Surplus (at end of period).....	4,906,528.38	
43			
44	Totals	5,005,068.82	5,005,068.82

CASH BALANCES AT END OF YEAR (Account 131)		
Line No.	Items (a)	Amount (b)
1	Operation Fund.....	962,460.03
2	Interest Fund.....	
3	Bond Fund.....	
4	Construction Fund.....	
5	Rate Stabilization Fund.....	
6		284,968.67
7		
8		
9		
10		
11		
12		
	Total	1,247,428.70

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).....	15,001.94			
14	Fuel Stock Expenses (Account 152).....				
15	Residuals (Account 153).....				
16	Plant Materials and Operating Supplies (Account 154).....				
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.....	2,648,990.33
26	Income During Year from Balance on Deposit.....	80,080.50
27	Amount Transferred from Income.....	300,734.64
28	Total	3,029,805.47
29		
30	CREDITS	
31	Amount Expended for Construction Purposes (Sec. 57, Ch. 164 of G.L.).....	163,327.07
32	Amounts Expended for Renewals, viz:-	
33		
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year.....	2,866,478.40
40	Total	3,029,805.47

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.....	156,077.96	0.00	5,649.00	0.00		150,428.96
27	356 Overhead Conductors and Devices.....	33,326.20	0.00	2,904.12	0.00		30,422.08
28	357 Underground Conductors.....						
29	358 Underground Conductors and Devices.....						
30	359 Roads and Trails.....						
31	Total Transmission Plant.....	189,404.16	0.00	8,553.12	0.00		180,851.04

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					2,091.54
2	361 Structures and Improvements.....	76.76		196.92			(120.16)
3	362 Station Equipment.....	1,341,295.78	6,500.00	74,567.61			1,273,228.17
4	363 Storage Battery Equipment.....	0.00					0.00
5	364 Poles, Towers, and Fixtures.....	229,567.47	23,240.37	19,501.44	4,800.00	0.00	228,506.40
6	365 Overhead Conductors and Devices.....	1,006,561.92	148,413.35	64,505.78	1,036.50	0.00	1,089,432.99
7	366 Underground Conductors.....	84,515.96	0.00	9,214.56	0.00	0.00	75,301.40
8	367 Underground Conductors and Devices.....	124,275.75	25,590.18	8,256.72	0.00	0.00	141,609.21
9	368 Line Transformers.....	318,656.35	49,810.31	12,441.79	9,400.00	0.00	346,624.87
10	369 Services.....	67,798.44	6,785.78	8,987.80	800.00	0.00	64,796.42
11	370 Meters.....	326,167.20	2,981.70	11,393.88	750.00	0.00	317,005.02
12	371 Installation on Customers' Premises.....						
13	372 Leased Property on Customers' Premises.....						
14	373 Street Light and Signal Systems.....	61,779.89	14,063.40	10,739.28	0.00		65,104.01
15	Total Distribution Plant.....	3,562,787.06	277,385.09	219,805.78	16,786.50	0.00	3,603,579.87
5. GENERAL PLANT							
16	389 Land and Land Rights.....	110,000.00	0.00				110,000.00
17	390 Structures and Improvements.....	347,726.24	0.00	23,309.40			324,416.84
18	391 Office Furniture and Equipment.....	1,056.92	7,317.50	(4,487.50)	7,902.00		4,959.92
19	392 Transportation Equipment.....	373,293.40	0.00	21,420.36			351,873.04
20	393 Stores Equipment.....						
21	394 Tools, Shop, and Garage Equipment.....	107,788.53	1,439.07	6,435.61			102,791.99
22	395 Laboratory Equipment.....	14,868.48	0.00	615.60			14,252.88
23	396 Power Operated Equipment.....						
24	397 Communication Equipment.....	3,696.33	0.00	956.88			2,739.45
25	398 Miscellaneous Equipment.....	15,017.92	12,375.28	473.39			26,919.81
26	399 Other Tangible Property.....						
27	Total General Plant.....	973,447.82	21,131.85	48,723.74	7,902.00	0.00	937,953.93
28	Total Electric Plant in Service.....	4,725,639.04	298,516.94	277,082.64	24,688.50	0.00	4,722,384.84
29	104 Utility Plant Leased to Others.....						
30	105 Property Held for Future Use.....						
31	107 Construction Work in Progress.....						
32	Total Utility Plant Electric.....	4,725,639.04	298,516.94	277,082.64	24,688.50	0.00	4,722,384.84

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	46,283.36
20		
21		
22		
23	TOTAL	46,283.36
MISCELLANEOUS DEBITS TO SURPLUS (Account 435)		
Line No.	Item (a)	Amount (b)
24	Bond and Note Payments	75,000.00
25		
26		
27		
28	TOTAL	75,000.00
APPROPRIATIONS OF SURPLUS (Account 436)		
Line No.	Item (a)	Amount (b)
29	In Lieu of Tax Payment	23,540.44
30		
31		
32	TOTAL	23,540.44

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):	1,643,971	280,202.23	0.1704
6					
7					
8					
9					
10					
11					
12		TOTALS	1,643,971	280,202.23	0.1704
13					
14		Street Lighting:	228,548	23,540.44	0.1030
15					
16					
17					
18		TOTALS	228,548.00	23,540.44	0.1030
19		TOTALS	1,872,519.00	303,742.67	0.1622

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		1,584,245	1,259,918.10	0.7953
23	Exelon		13,788,705	736,322.96	0.0534
24	NYP&A		2,649,498	61,550.93	0.0232
25	Brown Bear II		695,422	35,328.88	0.0508
26	Spruce Mountain Wind		980,200	93,597.16	0.0955
27	NextEra		5,856,000	324,926.12	0.0555
28	National Grid			87,132.96	
29	Exelon Credit			(1,045.96)	
30	Brown Bear II, Saddleback & Spruce			(51,295.92)	
31	Northeast Utilities			734.00	
32	Merrimac Solar-ConSolidated Edison		2,480,080	136,404.05	0.0550
33	Saddleback Ridge Wind		838,556	77,293.54	0.0922
34	EDF		1,174,500	66,887.78	
35	TOTALS		30,047,206	2,827,754.60	0.0941

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			

ELECTRIC OPERATING REVENUES (Account 400)

1. Report below the amount off 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 number of meters, plus number of flat rate accounts, except that 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 of Commercial and Industrial Sales, Account 442, according to Small (or Commercial) and Large (or Industrial) may be according to the basis of classification regularly used by the respondent if such basis of classification is not greater than 1000 kW of demand. See Account 442 of the Uniform System of Accounts. Explain basis 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	SALES OF ELECTRICITY						
2	440 Residential Sales	3,732,256.25	(11,621.55)	21,265,644	(874,422)	2,665	(12)
3	442 Commercial and Industrial Sales						
4	Small (or Commercial - see instr. 5)	239,217.80	1,897.34	1,196,885	(28,417)	164	4
5	Large (or Industrial - see instr. 5)	567,721.09	66,639.48	2,597,776	16,267	31	4
6	444 Municipal Sales	303,742.67	5,422.10	1,872,519	(47,610)	30	(2)
7	445 Other Sales: Private Area Lighting	15,834.36	700.70	97,130	996	96	(32)
8	446 Sales to Railroads and Railways						
9	448 Interdepartmental Sales						
10	449 Miscellaneous Sales						
11	Total Sales to Ultimate Consumers	4,858,772.17	63,038.07	27,029,954	(933,186)	2,986	(37)
12	447 Sales for Resale						
13	Total Sales of Electricity*	4,858,772.17	63,038.07	27,029,954	(933,186)	2,986	(37)
14	OTHER OPERATING REVENUES						
15	450 Forfeited Discounts						
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	13,851.83	3,799.83				
21							
22							
23							
24							
25	Total Other Operating Revenues	13,851.83	3,799.83				
26	Total Electric Operating Revenue	4,872,624.00	66,837.90				

*Includes revenues from application of fuel clauses:

\$2,158,870.14

Total KWH to which applied:

26,801,406.00

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	19,701,632	3,469,774.11	17.6116	2,584	2,586
2	440.2	Rate - C	1,564,012	262,482.14	16.7826	80	80
3	442.1	Rate - F1	1,713,776	339,122.26	19.7880	29	29
4	442.3	Rate - F	1,196,885	239,217.80	19.9867	164	164
5	442.4	Rate - F2	884,000	228,598.83	25.8596	2	2
6	444.1	Municipal	1,643,971	280,202.23	17.0442	29	29
7	444	Street Lights Municipal	228,548	23,540.44	10.3000	1	1
8	445.1	Private Area Lights	97,130	15,834.36	16.3022	95	96
Total Sales to Ultimate Consumers (P.37 L.11)			27,029,954	4,858,772	17.9755	2,984	2,987

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.....	2,827,254.60	(60,818.83)
27	556 System Control and Load Dispatching.....		
28	557 Other Expenses.....	54,450.02	3,968.71
29	Total Other Power Supply Expenses.....	2,881,704.62	(56,850.12)
30	Total Power Production Expenses.....	2,881,704.62	(56,850.12)
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.....	705.00	(1,553.83)
5	582 Station Expenses.....	1,199.50	(1,916.52)
6	583 Overhead Line Expenses.....	30,347.55	(14,051.80)
7	584 Underground Line Expenses.....	8,878.85	166.79
8	585 Street Lighting and Signal System Expenses.....	9,001.93	(2,029.94)
9	586 Meter Expenses.....	3,692.32	740.25
10	587 Customer Installation Expenses.....	10,090.70	(3,780.30)
11	588 Miscellaneous Distribution Expenses.....	15,352.97	(3,683.55)
12	589 Rents.....		
13	Total Operation.....	79,268.82	(26,108.90)
14	Maintenance:		
15	590 Maintenance Supervision and Engineering.....		
16	591 Maintenance of Structures.....	0.00	6,735.71
17	592 Maintenance of Station Equipment.....	1,840.18	20.00
18	593 Maintenance of Overhead Lines.....	124,103.71	55,486.78
19	594 Maintenance of Underground Lines.....	752.69	(7,434.70)
20	595 Maintenance of Line Transformers.....	232.80	(686.20)
21	596 Maintenance of Street Lighting and Signal Systems.....	0.00	0.00
22	597 Maintenance of Meters.....	44.42	44.42
23	598 Maintenance of Miscellaneous Distribution Plant.....	73,990.22	10,386.92
24	Total Maintenance.....	200,964.02	64,552.93
25	Total Distribution Expenses.....	280,232.84	38,444.03
26	CUSTOMER ACCOUNTS EXPENSES		
27	Operation:		
28	901 Supervision.....		
29	902 Meter Reading Expenses.....	5,293.50	(13,846.25)
30	903 Customer Records and Collection Expenses.....	84,595.58	7,927.83
31	904 Uncollectable Accounts.....	8,276.44	8,276.44
32	905 Miscellaneous Customer Accounts Expenses.....		
33	Total Customer Accounts Expenses.....	98,165.52	2,358.02
34	SALES EXPENSES		
35	Operation:		
36	911 Supervision.....		
37	912 Demonstrating and Selling Expenses.....		
38	913 Advertising Expenses.....	5,906.69	2,104.58
39	916 Miscellaneous Sales Expenses.....		
40	Total Sales Expenses.....	5,906.69	2,104.58
41	ADMINISTRATIVE AND GENERAL EXPENSES		
42	Operation:		
43	920 Administrative and General Salaries.....	239,716.95	(34,914.94)
44	921 Office Supplies and Expenses.....	36,839.73	3,327.92
45	922 Administrative Expenses Transferred.....		
46	923 Outside Services Employed.....	26,051.88	(17,220.03)
47	924 Property Insurance.....		
48	925 Injuries and Damages.....	21,039.40	(2,007.90)
49	926 Employee Pensions and Benefits.....	300,737.70	(12,944.32)
50	928 Regulatory Commission Expenses.....	565.00	
51	929 Duplicate Charges.....		
52	930 Miscellaneous General Expenses.....	8,309.03	592.81
53	931 Rents.....	0.00	0.00
54	Total Operation.....	633,259.69	(63,166.46)

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.....	11,196.99	4,277.32
4	933 Transportation Expenses.....	36,752.45	10,040.19
5	Total Administrative and General Expenses.....	681,209.13	(48,848.95)
	Total Electric Operation and Maintenance Expenses.....	3,947,218.80	(62,792.44)

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.....	2,881,704.62		2,881,704.62
13	Total Power Production Expenses.....	2,881,704.62		2,881,704.62
14	Transmission Expenses.....			
15	Distribution Expenses.....	79,268.82	200,964.02	280,232.84
16	Customer Accounts Expenses.....	98,165.52		98,165.52
17	Sales Expenses.....	5,906.69		5,906.69
18	Administrative and General Expenses.....	633,259.69	47,949.44	681,209.13
19	Total Electric Operation and Maintenance Expenses	3,698,305.34	248,913.46	3,947,218.80
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)			87.18%
21	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction, and other accounts.....			664,393.55
22	Total number of employees of electric department at end of year including administrative, operating, maintenance, and other employees (including part time employees):			9

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.....	30,047,206
Interchanges.....	
In (gross)....	
Out (gross)....	
Net (kWh).....	
Received.....	
Transmission for/by others (wheeling).....	
Delivered.....	
Net (kWh).....	
TOTAL	30,047,206
DISPOSITION OF ENERGY	
Sales to ultimate consumers (including interdepartmental sales).....	27,029,954
Sales for resale.....	
Energy furnished without charge.....	
Energy used by the company (excluding station use).....	
Electric Department only.....	89,862
Energy Losses:	
Transmission and conversion losses.....	1,401,261
Distribution losses.....	
Unaccounted for losses.....	1,526,129
Total Energy Losses.....	2,927,390
Energy losses as percent of total	9.74%
Unaccounted Losses	5.08%
TOTAL	30,047,206

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	5,491	TUESDAY	18	1900-2000	60 MIN	2,748,003.00
February	5,819	MONDAY	14	1900-2000	60 MIN	2,436,132.00
March	4,678	SUNDAY	4	1900-2000	60 MIN	2,315,850.00
April	4,619	THURSDAY	4	2000-2100	60 MIN	2,082,121.00
May	5,341	WEDNESDAY	28	2100-2200	60 MIN	2,154,940.00
June	5,578	TUESDAY	20	2000-2100	60 MIN	2,406,130.00
July	7,501	SUNDAY	22	1900-2000	60 MIN	3,235,680.00
August	7,704	MONDAY	12	1900-2000	60 MIN	3,220,410.00
September	6,323	WEDNESDAY	9	1900-2000	60 MIN	2,302,260.00
October	4,144	SUNDAY	30	1900-2000	60 MIN	2,108,560.00
November	4,808	SUNDAY	27	1800-1900	60 MIN	2,252,850.00
December	5,616	TUESDAY	19	1900-2000	60 MIN	2,784,270.00
TOTAL						30,047,206

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											
		TOTALS				22,500	4	1			

OVERHEAD DISTRIBUTION LINES OPERATED				
Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles at beginning of year	45.83		45.83
2	Miles added during year			0
3	Miles retired during year			0
4	Miles at end of year	45.83		45.83
5	Distribution System Characteristics-- A.C. or D.C., phase, cycles and operating voltages for Light and Power. 3 Phase 4 Wire 2400/4160V and 7970/13,800V 60 Hz AC to: 120/240V 1 Phase 3 Wire 240V 3 Phase 3 Wire 480V 3 Phase 3 Wire 120/208V 3 Phase 4 Wire 277/480V 3 Phase 4 Wire			

ELECTRIC DISTRIBUTION SERVICES, METERS, AND LINE TRANSFORMERS

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (KVA)
6	Number at beginning of year.....	2,772	2,984	731	23,361.0
7	Additions during the year:				
8	Purchased.....		30	19	550.0
9	Installed.....	31			
10	Associated with utility plant acquired				
11	Total Additions.....	31	30	19	550.0
12	Reductions during the year:				
13	Retirements.....	0	2	12	267.5
14	Associated with utility plant sold....				
15	Total Reductions.....	0	2	12	267.5
16	Number at end of year	2,803	3,012	738	23,643.5
17	In stock.....		95	61	2,169.0
18	Locked Meters on Customers' Premises.....				
19	Inactive Transformers on System.....				
20	In customers' Use.....		2,914	677	21,474.5
21	In Company's Use.....		3		
22	Number at end of year.....		3,012	738	23,643.5

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	457	43							414
2										
3										
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39										
40										
41										
42										
43	TOTALS	457	43							414

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

Thomas H. Jones

Manager of Electric Light

Norman P. J. Jansky

[Signature]

Rosalea Horne

Selectmen or Members of the
Municipal Light Board

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

ss.

2017

Then personally appeared

and severally 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

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
RESIDENTIAL RATE B**

**M.D.P.U. No 74
Cancelling M.D.P.U. No 67**

AVAILABILITY

Electricity is available under this schedule for all purposes in an individual private dwelling or an individual apartment. Service is not available hereunder for hotels, motels, trailer camps, auto courts, rooming houses, apartment buildings or any installation where the bills are not rendered by the Department to the tenant. When welding or X-ray equipment is installed in a private dwelling or apartment, an additional charge of \$2.00 per kilovolt-ampere will be added to each monthly bill, said charge being based on the name-plate kilovolt-ampere rating of the equipment. This rate is not available for resale.

RATE - APPLIED MONTHLY

The rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge:	\$5.50
Energy Charge:	\$0.0952 per kilowatt hour

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month, in which the bill is rendered, provided all previous bills have been paid. No discount is allowed on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
RESIDENTIAL RATE B**

**M.D.P.U. No 74
Cancelling M.D.P.U. No 67**

PURCHASED POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchased Power Adjustment Charge.

METER READING AND BILLING

Bills calculated under this rate schedule are due when rendered and are on a monthly basis. The Department, however, reserves the right to read meters and render bill on a bi-monthly basis, in which case, the number of kilowatt-hours stated in each block of the rate will be multiplied by two.

TERM OF CONTRACT

Subject to termination anytime upon notice.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereon, are part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT
ELECTRIC RATE SCHEDULE
RESIDENTIAL TOTAL ELECTRIC LIVING RATE C

M.D.P.U. No 75
Cancelling M.D.P.U. No 68

AVAILABILITY

Electricity is available under this schedule for all purposes to the customers specified below in accordance with the conditions stated:

Eligible Premises

1. An individual residence or individual apartment.
2. Motels, hotels, apartment houses and similar installations used primarily for living quarters.
3. A church or school, including adjacent buildings, owned and operated by such church or school and used primarily for religious or educational purposes.

Condition of Service

1. The customer's requirements for energy for all purposes must be supplied under this rate.
2. Electricity must be the only source of energy.
3. All Electric will be measured by a single meter.
4. All space heating equipment must be permanently installed.
5. This rate is not available to temporary, intermittent, periodic or seasonal customers.
6. This rate is not available for resale.

RATE - APPLIED MONTHLY

This rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge:	\$8.25
Energy Charge:	\$0.0895 per kilowatt-hour

MERRIMAC MUNICIPAL LIGHT DEPARTMENT
ELECTRIC RATE SCHEDULE
RESIDENTIAL TOTAL ELECTRIC LIVING RATE C

M.D.P.U. No 75
Cancelling M.D.P.U. No 68

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month, in which the bill is rendered, provided all previous bills have been paid. No discount is permitted on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge.

PURCHASED POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchased Power Adjustment Charge.

METER READING AND BILLING

Bills calculated under this rate schedule are due when rendered and are on a monthly basis. The Department, however, reserves the right to read meters and render bill on a bi-monthly basis, in which case, the number of kilowatt-hours stated in each block of the rate will be multiplied by two.

TERMS OF CONTRACT

Service supplied under this rate schedule will be for an initial term of twelve months and shall continue thereafter until terminated by 30 days' prior written notice.

INSTALLATION OF EQUIPMENT

All water heating and space heating equipment and the installation of such equipment shall comply with the requirements of the Department.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
GENERAL RATE E**

**M.D.P.U. No 76
Cancelling M.D.P.U. No 69**

AVAILABILITY

Electricity is available under this schedule for all existing municipal customers on the rate as of May 1, 1991. If electricity is delivered under this schedule at a specific location through more than one meter, the cost of service shall be computed separately for the electricity delivered through each meter, unless such multiple metering is for the Department's convenience.

If any electricity is delivered under this schedule at a specific location, then all electricity delivered by the Department at such location shall be billed under this schedule, except such electricity as may be furnished under the provisions of the Commercial Space Heating Rate Schedule D.

Electricity supplied hereunder is not available for resale or auxiliary service.

This rate is available to Municipal customers only after May 1, 1991.

RATE - APPLIED MONTHLY

The rate will be the sum of the Customer Charge, the Demand Charge and the Energy Charge as identified below:

Customer Charge:	\$ 42.00
Demand Charge:	\$ 5.00 per kilowatt
Energy Charge:	\$ 0.0616 per kilowatt hour

MINIMUM CHARGE

The minimum charge shall be the Customer Charge plus the Demand Charge for ten (10) kilowatts.

PURCHASED POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Departments' Purchase Power Adjustment Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
GENERAL RATE E**

**M.D.P.U. No 76
Cancelling M.D.P.U. No 69**

DETERMINATION OF DEMAND

The demand for each month shall be a number of kilowatts equal to the greatest fifteen-minute peak occurring during such month but not less than 5 kilowatts. For loads in excess of 50 kilowatts a fifteen-minute peak shall be deemed to be either the average rate at which electricity is delivered in any fifteen-minute period as measured in kilowatts or 85 percent of the number of kilovolt-amperes so measured, whichever be the greater.

METERING

The Department reserves the option to meter the electricity delivered at the customers utilization voltage or on the high tension side of the transformers serving the customer. In the latter case or if no transformer is required, each fifteen-minute peak used in billing shall be reduced by 1 percent and the kilowatt-hours for the month reduced by 1.5 percent. Said reductions will apply only when the voltage is 2,300 volts or higher.

CREDIT FOR HIGH VOLTAGE DELIVERY

If the customer furnishes, installs, owns and maintains, at its expense, all the equipment necessary to take service at the voltage at which electricity is transmitted to the customer's premises, but not less than 2,300 volts, a credit of fifteen(15) cents per kilowatt of billing demand shall be made each month. The equipment supplied by the customer shall be subject to the reasonable approval of the Department.

TERMS OF CONTRACT

Service supplied hereunder will be for an initial term of twelve months and shall continue thereafter until terminated by twelve months prior written notice.

In the event the Department is unable to properly supply the customer at reasonable expense a longer term may be required, the customer may be required to make guarantees or other reasonable payments in addition to the payments for electricity, or to pay a part or the whole of the cost of providing service to the customer's premise.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
GENERAL SERVICE RATE F**

**M.D.P.U. No 77
Cancelling M.D.P.U. No 70**

AVAILABILITY

Electricity is available under this schedule for all purposes for any customer with a demand less than 10 kilowatts (kW). If electricity is delivered under this schedule at a specific location through more than one meter, the cost of service shall be computed separately for the electricity delivered through each meter, unless such multiple metering is for the Department's convenience.

If any electricity is delivered under this schedule at a specific location, then all electricity delivered by the Department at such location shall be billed under this schedule.

Electricity supplied hereunder is not available for resale or auxiliary service.

RATE - APPLIED MONTHLY

The rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge	\$7.65
Energy Charge	\$0.1112 per kilowatt hour

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month in which the bill is rendered, provided all previous bills have been paid. No discount is allowed on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge. However, if the transformer capacity needed to serve the customer exceeds 15 KVA, the monthly minimum charge will be increased by \$2.00 for each KVA in excess of 15 KVA.

PURCHASED POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchased Power Adjustment Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
GENERAL SERVICE RATE F**

**M.D.P.U. No 77
Cancelling M.D.P.U. No 70**

METER READING AND BILLING

Bills calculated under this schedule are due when rendered and are on a monthly basis. The Department, however, reserves the right to read meters and render bills on a bi-monthly basis, in which case, the number of kilowatt-hours stated in each block and the Minimum Charge shall be multiplied by two.

TERM OF CONTRACT

Service may be terminated at anytime upon notice.

In the event the Department is unable to supply the customer at reasonable expense, a definite term may be required; the customer may be required to make guarantees or other reasonable payments in addition to the payments for electricity, or to pay a part of the whole of the cost of providing service to the customer's premises.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect time to time, where not inconsistent with any specific provisions hereof, are a part of this rate.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
LARGE GENERAL SERVICE RATE F1**

**M.D.P.U. No 78
Cancelling M.D.P.U. No 71**

AVAILABILITY

Electricity is available under this schedule for all purposes to any customer with a demand over 10 kilowatts (kW) and below 100 kW. If electricity is delivered under this schedule at a specific location through more than one meter, the cost of service shall be computed separately for the electricity delivered through each meter, unless such multiple metering is for the Department's convenience.

If any electricity is delivered under this schedule at a specific location, then all electricity delivered by the Department at such location shall be billed under this schedule.

Electricity supplied hereunder is not available for resale or auxiliary service.

RATE - APPLIED MONTHLY

The rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge	\$42.00
Demand Charge:	\$ 5.00 per kilowatt
Energy Charge:	\$0.0954 per kilowatt hour

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month, in which the bill is rendered, provided all previous bills have been paid. No discount is allowed on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge plus the Demand Charge for ten (10) kilowatts.

PURCHASE POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchase Power Adjustment Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
LARGE GENERAL SERVICE RATE F1**

**M.D.P.U. No 78
Cancelling M.D.P.U. No 71**

DETERMINATION OF DEMAND

The demand for each month shall be a number of kilowatts equal to the greatest fifteen-minute peak occurring during such month, but not less than 10 kilowatts. For loads in excess of 50 kilowatts a fifteen-minute peak shall be deemed to be either the average rate at which electricity is delivered in any fifteen-minute period as measured in kilowatts or 85 percent of the number of kilovolt-amperes so measured, whichever be the greater.

METERING

The Department reserves the option to meter the electricity delivered at the customer's utilization voltage or on the high tension side of the transformers serving the customer. In the latter case or if no transformer is required, each fifteen-minute peak used in billing shall be reduced by 1 percent and the kilowatt-hours for the month reduced by 1.5 percent. Said reductions will apply only when the voltage is 2,300 volts or higher.

CREDIT FOR HIGH VOLTAGE DELIVERY

If the customer furnishes, installs owns and maintains, at its expense, all the equipment necessary to take service at the voltage at which electricity is transmitted to the customer's premises, but not less than 2,300 volts, a credit of fifteen (15) cents per kilowatt of billing demand shall be made each month. The equipment supplied by the customer shall be subject to the reasonable approval of the Department.

TERM OF CONTRACT

Service supplied hereunder will be for an initial term of twelve months and shall continue thereafter until terminated by twelve months prior written notice.

In the event the Department is unable to properly supply the customer at reasonable expense a longer term may be required, the customer may be required to make guarantees or other reasonable payments in addition to the payments for electricity, or to pay a part or the whole of the cost of providing service to the customer's premises.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
POWER SERVICE RATE F2**

**M.D.P.U. No 79
Cancelling M.D.P.U. No 72**

AVAILABILITY

Electricity is available under this schedule for all purposes to any customer with a demand of 100 kilowatts (kW) or over. If electricity is delivered under this schedule at a specific location through more than one meter, the cost of service shall be computed separately for the electricity delivered through each meter, unless such multiple metering is for the Department's convenience.

If any electricity is delivered under this schedule at a specific location, then all electricity delivered by the Department at such location shall be billed under this schedule.

Electricity supplied hereunder is not available for resale or auxiliary service.

RATE - APPLIED MONTHLY

The rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge	\$66.00
Demand Charge:	\$5.00 per kilowatt
Energy Charge:	\$0.0900 per kilowatt hour

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month in which the bill is rendered, provided all previous bills have been paid. No discount is allowed on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge plus the Demand Charge for 100 kilowatts.

PURCHASE POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchase Power Adjustment Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
POWER SERVICE RATE F2**

**M.D.P.U. No 79
Cancelling M.D.P.U. No 72**

DETERMINATION OF DEMAND

The demand for each month shall be a number of kilowatts equal to the greatest fifteen-minute peak occurring during such month, but not less than 10 kilowatts. For loads in excess of 50 kilowatts, a fifteen-minute peak shall be deemed to be either the average rate at which electricity is delivered in any fifteen-minute period as measured in kilowatts or 85 percent of the number of kilovolt-amperes so measured, whichever is greater.

METERING

The Department reserves the option to meter the electricity delivered at the customer's utilization voltage or on the high tension side of the transformers serving the customer. In the latter case or if no transformer is required, each fifteen-minute peak used in billing shall be reduced by 1 percent and the kilowatt-hours for the month reduced by 1.5 percent. Said reductions will apply only when the voltage is 2,300 volts or higher.

CREDIT FOR HIGH VOLTAGE DELIVERY

If the customer furnishes, installs owns and maintains, at its expense, all the equipment necessary to take service at the voltage at which electricity is transmitted to the customer's premises, but not less than 2,300 volts, a credit of fifteen (15) cents per kilowatt of billing demand shall be made each month. The equipment supplied by the customer shall be subject to the reasonable approval of the Department.

TERM OF CONTRACT

Service supplied hereunder will be for an initial term of twelve months and shall continue thereafter until terminated by twelve months prior written notice.

In the event the Department is unable to properly supply the customer at reasonable expense a longer term may be required, the customer may be required to make guarantees or other reasonable payments in addition to the payments for electricity, or to pay a part or the whole of the cost of providing service to the customer's premises.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

ELECTRIC RATE SCHEDULE

PURCHASED POWER ADJUSTMENT

Rate Schedule PPA

M.D.P.U. No 80

Cancelling M.D.P.U. No 66

APPLICABILITY

The Purchased Power Adjustment ("PPA") charge is calculated pursuant to this rate schedule and is applicable to all kilowatt-hours ("kWh") delivered by the Merrimac Municipal Light Department ("MMLD") other than kWh's supplied for Street Lighting.

MONTHLY RATE

The following table shows the adjusted PPA charge which became effective with the May 2015 cycle billing. The MMLD Purchased Power Adjustment charge per kilowatt-hour ("kWh") was increased for each rate based on the following table.

Rate	Old PPA	New PPA
Rate B (M.D.P.U #74)	\$0.0657/kWh	\$0.0795/kWh
Rate C (M.D.P.U #75)	\$0.0657/kWh	\$0.0795/kWh
Rate E (M.D.P.U #76)	\$0.0715/kWh	\$0.0838/kWh
Rate F (M.D.P.U #77)	\$0.0715/kWh	\$0.0864/kWh
Rate F1 (M.D.P.U #78)	\$0.0715/kWh	\$0.0864/kWh
Rate F2 (M.D.P.U #79)	\$0.0715/kWh	\$0.0900/kWh

This increase equates to an eight percent (8%) average increase for MMLD residential and commercial customers. The actual increase will depend on each customer's actual monthly kWh usage.

The Purchased Power Adjustment charge increase was required to start funding the additional power supply costs. These costs include:

- 1) Transmission, Capacity and Ancillary – increases resulting from policies and procedures adopted by ISO-New England.

EFFECTIVE TERM

The MMLD will re-evaluate the Purchase Power Adjustment charge in March 2017 and adjust as necessary. The MMLD will ensure that the increase in PPA, M.D.P.U. No 80 will result in rate schedules for all classifications of customers that are in full compliance with Massachusetts General Law Chapter 164, Section 58, Price for Gas and Electricity Regulated.

Effective: June, 2015

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
RESIDENTIAL RATE B**

**M.D.P.U. No 74
Cancelling M.D.P.U. No 67**

AVAILABILITY

Electricity is available under this schedule for all purposes in an individual private dwelling or an individual apartment. Service is not available hereunder for hotels, motels, trailer camps, auto courts, rooming houses, apartment buildings or any installation where the bills are not rendered by the Department to the tenant. When welding or X-ray equipment is installed in a private dwelling or apartment, an additional charge of \$2.00 per kilovolt-ampere will be added to each monthly bill, said charge being based on the name-plate kilovolt-ampere rating of the equipment. This rate is not available for resale.

RATE – APPLIED MONTHLY

The rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge:	\$5.50
Energy Charge:	\$0.0952 per kilowatt hour

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month, in which the bill is rendered, provided all previous bills have been paid. No discount is allowed on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
RESIDENTIAL RATE B**

**M.D.P.U. No 74
Cancelling M.D.P.U. No 67**

PURCHASED POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchased Power Adjustment Charge.

METER READING AND BILLING

Bills calculated under this rate schedule are due when rendered and are on a monthly basis. The Department, however, reserves the right to read meters and render bill on a bi-monthly basis, in which case, the number of kilowatt-hours stated in each block of the rate will be multiplied by two.

TERM OF CONTRACT

Subject to termination anytime upon notice.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereon, are part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT
ELECTRIC RATE SCHEDULE
RESIDENTIAL TOTAL ELECTRIC LIVING RATE C

M.D.P.U. No 75
Cancelling M.D.P.U. No 68

AVAILABILITY

Electricity is available under this schedule for all purposes to the customers specified below in accordance with the conditions stated:

Eligible Premises

1. An individual residence or individual apartment.
2. Motels, hotels, apartment houses and similar installations used primarily for living quarters.
3. A church or school, including adjacent buildings, owned and operated by such church or school and used primarily for religious or educational purposes.

Condition of Service

1. The customer's requirements for energy for all purposes must be supplied under this rate.
2. Electricity must be the only source of energy.
3. All Electric will be measured by a single meter.
4. All space heating equipment must be permanently installed.
5. This rate is not available to temporary, intermittent, periodic or seasonal customers.
6. This rate is not available for resale.

RATE – APPLIED MONTHLY

This rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge:	\$8.25
Energy Charge:	\$0.0895 per kilowatt-hour

MERRIMAC MUNICIPAL LIGHT DEPARTMENT
ELECTRIC RATE SCHEDULE
RESIDENTIAL TOTAL ELECTRIC LIVING RATE C

M.D.P.U. No 75
Cancelling M.D.P.U. No 68

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month, in which the bill is rendered, provided all previous bills have been paid. No discount is permitted on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge.

PURCHASED POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchased Power Adjustment Charge.

METER READING AND BILLING

Bills calculated under this rate schedule are due when rendered and are on a monthly basis. The Department, however, reserves the right to read meters and render bill on a bi-monthly basis, in which case, the number of kilowatt-hours stated in each block of the rate will be multiplied by two.

TERMS OF CONTRACT

Service supplied under this rate schedule will be for an initial term of twelve months and shall continue thereafter until terminated by 30 days' prior written notice.

INSTALLATION OF EQUIPMENT

All water heating and space heating equipment and the installation of such equipment shall comply with the requirements of the Department.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
GENERAL RATE E**

**M.D.P.U. No 76
Cancelling M.D.P.U. No 69**

AVAILABILITY

Electricity is available under this schedule for all existing municipal customers on the rate as of May 1, 1991. If electricity is delivered under this schedule at a specific location through more than one meter, the cost of service shall be computed separately for the electricity delivered through each meter, unless such multiple metering is for the Department's convenience.

If any electricity is delivered under this schedule at a specific location, then all electricity delivered by the Department at such location shall be billed under this schedule, except such electricity as may be furnished under the provisions of the Commercial Space Heating Rate Schedule D.

Electricity supplied hereunder is not available for resale or auxiliary service.

This rate is available to Municipal customers only after May 1, 1991.

RATE - APPLIED MONTHLY

The rate will be the sum of the Customer Charge, the Demand Charge and the Energy Charge as identified below:

Customer Charge:	\$ 42.00
Demand Charge:	\$ 5.00 per kilowatt
Energy Charge:	\$ 0.0616 per kilowatt hour

MINIMUM CHARGE

The minimum charge shall be the Customer Charge plus the Demand Charge for ten (10) kilowatts.

PURCHASED POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Departments' Purchase Power Adjustment Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
GENERAL RATE E**

**M.D.P.U. No 76
Cancelling M.D.P.U. No 69**

DETERMINATION OF DEMAND

The demand for each month shall be a number of kilowatts equal to the greatest fifteen-minute peak occurring during such month but not less than 5 kilowatts. For loads in excess of 50 kilowatts a fifteen-minute peak shall be deemed to be either the average rate at which electricity is delivered in any fifteen-minute period as measured in kilowatts or 85 percent of the number of kilovolt-amperes so measured, whichever be the greater.

METERING

The Department reserves the option to meter the electricity delivered at the customers utilization voltage or on the high tension side of the transformers serving the customer. In the latter case or if no transformer is required, each fifteen-minute peak used in billing shall be reduced by 1 percent and the kilowatt-hours for the month reduced by 1.5 percent. Said reductions will apply only when the voltage is 2,300 volts or higher.

CREDIT FOR HIGH VOLTAGE DELIVERY

If the customer furnishes, installs, owns and maintains, at its expense, all the equipment necessary to take service at the voltage at which electricity is transmitted to the customer's premises, but not less than 2,300 volts, a credit of fifteen(15) cents per kilowatt of billing demand shall be made each month. The equipment supplied by the customer shall be subject to the reasonable approval of the Department.

TERMS OF CONTRTACT

Service supplied hereunder will be for an initial term of twelve months and shall continue thereafter until terminated by twelve months prior written notice.

In the event the Department is unable to properly supply the customer at reasonable expense a longer term may be required, the customer may be required to make guarantees or other reasonable payments in addition to the payments for electricity, or to pay a part or the whole of the cost of providing service to the customer's premise.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
GENERAL SERVICE RATE F**

**M.D.P.U. No 77
Cancelling M.D.P.U. No 70**

AVAILABILITY

Electricity is available under this schedule for all purposes for any customer with a demand less than 10 kilowatts (kW). If electricity is delivered under this schedule at a specific location through more than one meter, the cost of service shall be computed separately for the electricity delivered through each meter, unless such multiple metering is for the Department's convenience.

If any electricity is delivered under this schedule at a specific location, then all electricity delivered by the Department at such location shall be billed under this schedule.

Electricity supplied hereunder is not available for resale or auxiliary service.

RATE – APPLIED MONTHLY

The rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge	\$7.65
Energy Charge	\$0.1112 per kilowatt hour

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month in which the bill is rendered, provided all previous bills have been paid. No discount is allowed on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge. However, if the transformer capacity needed to serve the customer exceeds 15 KVA, the monthly minimum charge will be increased by \$2.00 for each KVA in excess of 15 KVA.

PURCHASED POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchased Power Adjustment Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
GENERAL SERVICE RATE F**

**M.D.P.U. No 77
Cancelling M.D.P.U. No 70**

METER READING AND BILLING

Bills calculated under this schedule are due when rendered and are on a monthly basis. The Department, however, reserves the right to read meters and render bills on a bi-monthly basis, in which case, the number of kilowatt-hours stated in each block and the Minimum Charge shall be multiplied by two.

TERM OF CONTRACT

Service may be terminated at anytime upon notice.

In the event the Department is unable to supply the customer at reasonable expense, a definite term may be required; the customer may be required to make guarantees or other reasonable payments in addition to the payments for electricity, or to pay a part of the whole of the cost of providing service to the customer's premises.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect time to time, where not inconsistent with any specific provisions hereof, are a part of this rate.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
LARGE GENERAL SERVICE RATE F1**

**M.D.P.U. No 78
Cancelling M.D.P.U. No 71**

AVAILABILITY

Electricity is available under this schedule for all purposes to any customer with a demand over 10 kilowatts (kW) and below 100 kW. If electricity is delivered under this schedule at a specific location through more than one meter, the cost of service shall be computed separately for the electricity delivered through each meter, unless such multiple metering is for the Department's convenience.

If any electricity is delivered under this schedule at a specific location, then all electricity delivered by the Department at such location shall be billed under this schedule.

Electricity supplied hereunder is not available for resale or auxiliary service.

RATE – APPLIED MONTHLY

The rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge	\$42.00
Demand Charge:	\$ 5.00 per kilowatt
Energy Charge:	\$0.0954 per kilowatt hour

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month, in which the bill is rendered, provided all previous bills have been paid. No discount is allowed on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge plus the Demand Charge for ten (10) kilowatts.

PURCHASE POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchase Power Adjustment Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
LARGE GENERAL SERVICE RATE F1**

**M.D.P.U. No 78
Cancelling M.D.P.U. No 71**

DETERMINATION OF DEMAND

The demand for each month shall be a number of kilowatts equal to the greatest fifteen-minute peak occurring during such month, but not less than 10 kilowatts. For loads in excess of 50 kilowatts a fifteen-minute peak shall be deemed to be either the average rate at which electricity is delivered in any fifteen-minute period as measured in kilowatts or 85 percent of the number of kilovolt-amperes so measured, whichever be the greater.

METERING

The Department reserves the option to meter the electricity delivered at the customer's utilization voltage or on the high tension side of the transformers serving the customer. In the latter case or if no transformer is required, each fifteen-minute peak used in billing shall be reduced by 1 percent and the kilowatt-hours for the month reduced by 1.5 percent. Said reductions will apply only when the voltage is 2,300 volts or higher.

CREDIT FOR HIGH VOLTAGE DELIVERY

If the customer furnishes, installs owns and maintains, at its expense, all the equipment necessary to take service at the voltage at which electricity is transmitted to the customer's premises, but not less than 2,300 volts, a credit of fifteen (15) cents per kilowatt of billing demand shall be made each month. The equipment supplied by the customer shall be subject to the reasonable approval of the Department.

TERM OF CONTRACT

Service supplied hereunder will be for an initial term of twelve months and shall continue thereafter until terminated by twelve months prior written notice.

In the event the Department is unable to properly supply the customer at reasonable expense a longer term may be required, the customer may be required to make guarantees or other reasonable payments in addition to the payments for electricity, or to pay a part or the whole of the cost of providing service to the customer's premises.

RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
POWER SERVICE RATE F2**

**M.D.P.U. No 79
Cancelling M.D.P.U. No 72**

AVAILABILITY

Electricity is available under this schedule for all purposes to any customer with a demand of 100 kilowatts (kW) or over. If electricity is delivered under this schedule at a specific location through more than one meter, the cost of service shall be computed separately for the electricity delivered through each meter, unless such multiple metering is for the Department's convenience.

If any electricity is delivered under this schedule at a specific location, then all electricity delivered by the Department at such location shall be billed under this schedule.

Electricity supplied hereunder is not available for resale or auxiliary service.

RATE - APPLIED MONTHLY

The rate shall be the sum of the Customer Charge and the Energy Charge as identified below:

Customer Charge	\$66.00
Demand Charge:	\$5.00 per kilowatt
Energy Charge:	\$0.0900 per kilowatt hour

DISCOUNT

A discount of 10 percent will be allowed if payment is received on or before the fifteenth of the month in which the bill is rendered, provided all previous bills have been paid. No discount is allowed on minimum charge or fuel adjustment.

MINIMUM CHARGE

The minimum charge will be the Customer Charge plus the Demand Charge for 100 kilowatts.

PURCHASE POWER ADJUSTMENT

The amount determined under the preceding provisions will be adjusted in accordance with the Department's Purchase Power Adjustment Charge.

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

**ELECTRIC RATE SCHEDULE
POWER SERVICE RATE F2**

**M.D.P.U. No 79
Cancelling M.D.P.U. No 72**

DETERMINATION OF DEMAND

The demand for each month shall be a number of kilowatts equal to the greatest fifteen-minute peak occurring during such month, but not less than 10 kilowatts. For loads in excess of 50 kilowatts, a fifteen-minute peak shall be deemed to be either the average rate at which electricity is delivered in any fifteen-minute period as measured in kilowatts or 85 percent of the number of kilovolt-amperes so measured, whichever is greater.

METERING

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RULES AND REGULATIONS

The Department's Rules and Regulations in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

Effective: June 16, 2016
Revised: June 16, 2016

MERRIMAC MUNICIPAL LIGHT DEPARTMENT

ELECTRIC RATE SCHEDULE

PURCHASED POWER ADJUSTMENT

Rate Schedule PPA

M.D.P.U. No 80

Cancelling M.D.P.U. No 66

APPLICABILITY

The Purchased Power Adjustment ("PPA") charge is calculated pursuant to this rate schedule and is applicable to all kilowatt-hours ("kWh") delivered by the Merrimac Municipal Light Department ("MMLD") other than kWh's supplied for Street Lighting.

MONTHLY RATE

The following table shows the adjusted PPA charge which became effective with the May 2015 cycle billing. The MMLD Purchased Power Adjustment charge per kilowatt-hour ("kWh") was increased for each rate based on the following table.

Rate	Old PPA	New PPA
Rate B (M.D.P.U #74)	\$0.0657/kWh	\$0.0795/kWh
Rate C (M.D.P.U #75)	\$0.0657/kWh	\$0.0795/kWh
Rate E (M.D.P.U #76)	\$0.0715/kWh	\$0.0838/kWh
Rate F (M.D.P.U #77)	\$0.0715/kWh	\$0.0864/kWh
Rate F1 (M.D.P.U #78)	\$0.0715/kWh	\$0.0864/kWh
Rate F2 (M.D.P.U #79)	\$0.0715/kWh	\$0.0900/kWh

This increase equates to an eight percent (8%) average increase for MMLD residential and commercial customers. The actual increase will depend on each customer's actual monthly kWh usage.

The Purchased Power Adjustment charge increase was required to start funding the additional power supply costs. These costs include:

- 1) Transmission, Capacity and Ancillary – increases resulting from policies and procedures adopted by ISO-New England.

EFFECTIVE TERM

The MMLD will re-evaluate the Purchase Power Adjustment charge in March 2017 and adjust as necessary. The MMLD will ensure that the increase in PPA, M.D.P.U. No 80 will result in rate schedules for all classifications of customers that are in full compliance with Massachusetts General Law Chapter 164, Section 58, Price for Gas and Electricity Regulated.

Effective: June, 2015