



**The Commonwealth of Massachusetts**

**RETURN**

OF THE

**MUNICIPAL LIGHT DEPARTMENT**

OF THE

**TOWN OF IPSWICH**

TO THE

**DEPARTMENT OF PUBLIC UTILITIES**

OF MASSACHUSETTS

**For the Year Ended December 31,**

**2018**

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

Official Title:   Manager of Electric Light

Jon W. Blair

Office Address: 272 High Street

Ipswich MA 01938

GOULET, SALVIDIO  
& ASSOCIATES, P.C.  
CERTIFIED PUBLIC ACCOUNTANTS

The Board of Commissioners  
Ipswich Electric Light Department  
Ipswich, MA 01938

Management is responsible for the accompanying financial statements of Ipswich Electric Light Department, which comprise the balance sheet as of December 31, 2018, and the related statement of income and unappropriated retained earnings for the year then ended, included in the accompanying prescribed form in accordance with accounting principles generally accepted in the United States of America. We have performed a compilation engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. We did not audit or review the financial statements included in the accompanying prescribed form nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by management. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on the financial statements included in the accompanying prescribed form.

The financial statements included in the accompanying prescribed form are intended to comply with the requirements of the Massachusetts Department of Public Utilities, and are not intended to be a presentation in accordance with accounting principles generally accepted in the United States of America.

Goulet, Salvidio & Associates P.C.

*Goulet, Salvidio & Associates, P.C.*

Worcester, Massachusetts  
June 10, 2019

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**GENERAL INFORMATION****Page 3**

- |     |  |  |
|-----|--|--|
| 1.  | Name of town (or city) making report.  | Ipswich  |
| 2.  | If the town (or city) has acquired a plant,<br>Kind of plant, whether gas or electric.<br>Owner from whom purchased, if so acquired.<br>Date of votes to acquire a plant in accordance with the provisions of<br>chapter 164 of the General Laws.<br>Record of votes: First vote: Yes, ; No,    Second vote: Yes, ; No,<br>Date when town (or city) began to sell gas and electricity,   | Electric<br><br><br><br><br><br>1904           |
| 3.  | Name and address of manager of municipal lighting:<br><br>Jon W. Blair                    272 High Street                    Ipswich, MA 01938   |  |
| 4.  | Name and address of mayor or selectmen:<br><br>Linda D. Alexson            25 Green Street                    Ipswich, MA 01938<br>Tammy Jones                25 Green Street                    Ipswich, MA 01938<br>Kerry L. Mackin             25 Green Street                    Ipswich, MA 01938<br>Nishan D. Mootafian       25 Green Street                    Ipswich, MA 01938<br>William D. Whitmore       25 Green Street                    Ipswich, MA 01938 |  |
| 5.  | Name and address of town (or city) treasurer:<br><br>Kevin Merz                    25 Green Street                    Ipswich, MA 01938  |  |
| 6.  | Name and address of town (or city) clerk:<br><br>Pamela Carakatsane       25 Green Street                    Ipswich, MA 01938   |  |
| 7.  | Names and addresses of members of municipal light board:<br><br>Same as Selectmen, Above   |  |
| 8.  | Total valuation of estates in town (or city) according to last State valuation<br>(taxable)  | \$            2,952,112,631                    |
| 9.  | Tax rate for all purposes during the year:   | \$14.09  |
| 10. | Amount of manager's salary:  | Manager of Electric Light            \$137,700 |
| 11. | Amount of manager's bond:  | None   |
| 12. | Amount of salary paid to members of municipal light board (each):  | None   |

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

		Amount
<b>INCOME FROM PRIVATE CONSUMERS:</b>		
1	From sales of gas	0
2	From sales of electricity	15,846,372
3	<b>TOTAL</b>	15,846,372
4		
5	<b>EXPENSES</b>	
6	For operation, maintenance and repairs	14,154,384
7	For interest on bonds, notes or scrip	175,975
8	For depreciation fund ( 3% 33,055,677 (ex land) as per page 8B)	991,670
9	For sinking fund requirements	0
10	For note payments	0
11	For bond payments	480,000
12	For loss in preceding year	0
13	<b>TOTAL</b>	15,802,029
14		
15	<b>COST:</b>	
16	Of gas to be used for municipal buildings	0
17	Of gas to be used for street lights	0
18	Of electricity to be used for municipal buildings	717,771
19	Of electricity to be used for street lights	55,000
20	Total of above items to be included in the tax levy	772,771
21		
22	New construction to be included in the tax levy	0
23	Total amounts to be included in the tax levy	772,771

**CUSTOMERS**

Names of cities or towns in which the plant supplies GAS, with the number of customers' meters in each.		Names of cities or towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each.	
City or Town	Number of Customers' Meters, Dec. 31	City or Town	Number of Customers' Meters, Dec. 31
	None	Ipswich	7,158
<b>TOTAL</b>	0	<b>TOTAL</b>	7,158

**APPROPRIATIONS SINCE BEGINNING OF YEAR**

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

**FOR CONSTRUCTION OR PURCHASE OF PLANT**

\*At

\*At meeting, to be paid from \*\* TOTAL 0

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

1. Street lights	55,000
2. Municipal buildings	717,771
3.	
TOTAL	<u>772,771</u>

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

**CHANGES IN THE PROPERTY**

- 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:**

System-wide Advanced Metering Infrastructure implementation over the next 3 years

**In gas property:**                      Not applicable

Bonds (Issued on Account of Gas or Electric Lighting.)							
When Authorized*	Date of Issue	Amount of Original Issue **	Period of Payments		Interest		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
Sept. 28, 1903	Oct. 01, 1903	25,000					
Dec. 14, 1903	Dec. 15, 1903	5,000					
March 07, 1904	Dec. 04, 1904	6,000					
March 27, 1905	May 01, 1905	4,000					
March 06, 1906	Dec. 06, 1906	2,000					
March 07, 1907	June 15, 1907	2,000					
March 04, 1908	June 30, 1908	2,000					
March 04, 1909	June 15, 1909	2,000					
March 04, 1910	June 30, 1910	2,000					
March 07, 1910	Oct. 01, 1910	10,000					
June 24, 1910	Dec. 10, 1910	6,000					
March 11, 1911	June 29, 1911	2,000					
March 07, 1912	June 30, 1913	2,000					
March 07, 1913	June 30, 1914	2,000					
March 03, 1914	June 13, 1914	2,000					
March 02, 1915	June 30, 1915	2,000					
March 07, 1916	June 30, 1916	2,000					
March 07, 1917	June 30, 1917	2,000					
March 11, 1918	June 01, 1918	2,000					
March 03, 1919	July 01, 1919	6,000					
Dec. 07, 1921	Dec. 15, 1921	4,000					
March 06, 1922	Dec. 04, 1922	5,000					
March 03, 1924	June 15, 1924	21,900	(A)				
March 07, 1927	Aug. 15, 1927	40,000					
March 30, 1930	July 15, 1930	35,000					
Oct. 03, 1931	Dec. 21, 1931	10,000					
April 30, 1934	June 15, 1934	25,000					
Dec. 29, 1936	March 15, 1937	30,000					

Bonds (Issued on Account of Gas or Electric Lighting.)							
When Authorized*	Date of Issue	Amount of Original Issue **	Period of Payments		Interest		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
March 06, 1951	Dec. 01, 1951	70,000					
March 02, 1954	Dec. 01, 1954	90,000					
March 05, 1956	Dec. 01, 1956	185,000					
March 03, 1958	Dec. 05, 1958	100,000	(B)				
March 03, 1958	June 01, 1959	120,000					
March 06, 1961	June 15, 1961	185,000					
March 03, 1969	Aug. 15, 1969	225,000					
March 05, 1973	July 15, 1969	100,000	(C)				
March 05, 1973	Dec. 01, 1973	175,000					
April 07, 1980	June 15, 1980	200,000					
October 19, 1998	Nov. 15, 1999	900,000					
April 02, 2001	Nov. 15, 2003	50,000					
October 30, 2007	June 01, 2008	6,000,000	300,000	Annually	3.25-4.10%	Semi Annually	3,000,000
October 30, 2007	April 1, 2010	600,000	40,000	Annually	2.00-5.00%	Semi Annually	280,000
May 13, 2008	June 14, 2011	2,642,000	140,000	Annually	2.00-5.00%	Semi Annually	1,650,000
(A) Refunded July 15, 1924		(21,900)					
(B) Refunded Dec. 05, 1958		(100,000)					
(C) Refunded Dec. 01, 1973		(100,000)					
	TOTAL	11,679,000	480,000			TOTAL	4,930,000



**Town Notes**

(Issued on Account of Gas or Electric Lighting.)

When Authorized*	Date of Issue	Amount of Original Issue **	Period of Payments		Interest		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
April 6, 1981	May 6, 1981	475,000					0
May 13, 2008	Oct. 6, 2010	800,000	800,000	Annually	1.25%	Upon Maturity	0
TOTAL		1,275,000				TOTAL	0

**TOTAL COST OF PLANT - ELECTRIC**

1. Report below the cost of utility plant in service according to prescribed accounts  
 2. Do not include as adjustments, corrections of additions and retirements for the current or the

preceding year. Such items should be included in column (c) or (d) as appropriate.  
 3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative

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

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						NONE
2							
3							
4		0	0	0	0	0	0
5	2. PRODUCTION PLANT						NONE
6	A. Steam Production						
7	310 Land and Land Rights						
8	311 Structures and Improvements						
9	312 Boiler Plant Equipment						
10	313 Engines and Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	316 Miscellaneous Power Plant Equipment						
15	Total Steam Production Plant	0	0	0	0	0	0
16	B. Nuclear Production Plant						NONE
17	320 Land and Land Rights						
18	321 Structures and Improvements						
19	322 Reactor Plant Equipment						
20	323 Turbogenerator Units						
21	324 Accessory Electric Equipment						
22	325 Miscellaneous Power Plant Equipment						
	Total Nuclear Production Plant	0	0	0	0	0	0

## 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						NONE
2	330 Land and Land Rights						
3	331 Structures and Improvements						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators						
6	334 Accessory Electric Equipment						
7	335 Miscellaneous Power Plant Equipment						
8	336 Roads, Railroads and Bridges						
9	Total Hydraulic Production Plant	0	0	0	0	0	0
10	D. Other Production Plant						
11	340 Land and Land Rights	841	-	-			841
12	341 Structures and Improvements	327,236	-	-			327,236
13	342 Fuel Holders, Producers and Accessories	114,371	-	-			114,371
14	343 Prime Movers	3,728,780	75,291	-			3,804,071
15	344 Generators	3,878,618	-	-			3,878,618
16	345 Accessory Electric Equipment	368,481	-	-			368,481
17	346 Miscellaneous Power Plant Equipment	602,084	37,272	-	0		639,356
18	Total Other Production Plant	9,020,411	112,563	0	0	0	9,132,974
19	Total Production Plant	9,020,411	112,563	0	0	0	9,132,974
20	3. Transmission Plant						
21	350 Land and Land Rights	17,707	-	-			17,707
22	351 Clearing Land and Rights of Way	4,428	-	-			4,428
23	352 Structures and Improvements	-	-	-			-
24	353 Station Equipment	-	-	-			-
25	354 Towers and Fixtures	-	-	-			-
26	355 Poles and Fixtures	1,037,236	1,182	-			1,038,418
27	356 Overhead Conductors and Devices	906,631	-	-			906,631
28	357 Underground Conduit	-	-	-			-
29	358 Underground Conductors and Devices	-	-	-			-
30	359 Roads and Trails	-	-	-			-
31	Total Transmission Plant	1,966,002	1,182	0	0	0	1,967,184

TOTAL COST OF PLANT (Concluded)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights	-	-	-			-
3	361 Structures and Improvements	1,471	-	-			1,471
4	362 Station Equipment	8,916,145	93,257	-			9,009,402
5	363 Storage Battery Equipment	-	-	-			-
6	364 Poles Towers and Fixtures	2,059,013	128,922	10,041			2,177,894
7	365 Overhead Conductors and Devices	1,687,448	68,983	27,969			1,728,462
8	366 Underground Conduit	126,242	2,005	-			128,247
9	367 Underground Conductors and Devices	1,252,916	730	-			1,253,646
10	368 Line Transformers	2,107,847	50,327	29,313			2,128,861
11	369 Services	436,522	32,677	2,866			466,333
12	370 Meters	351,588	57,237	114,190			294,635
13	371 Installations on Customer's Premises	1,391,806	98,776	-			1,490,582
14	372 Leased Prop on Customer's Premises	-	-	-			-
15	373 Streetlight and Signal Systems	694,581	56,921	353,655			397,847
16	Total Distribution Plant	19,025,579	589,835	538,034	0	0	19,077,380
17	5. GENERAL PLANT						
18	389 Land and Land Rights	-	-	-			-
19	390 Structures and Improvements	590,110	4,900	-			595,010
20	391 Office Furniture and Equipment	463,706	-	-			463,706
21	392 Transportation Equipment	1,300,949	-	-			1,300,949
22	393 Stores Equipment	6,996	-	-			6,996
23	394 Tools, Shop and Garage Equipment	180,400	17,233	-			197,633
24	395 Laboratory Equipment	70,471	-	-			70,471
25	396 Power Operated Equipment	-	-	-			-
26	397 Communication Equipment	56,595	13,441	-			70,036
27	398 Miscellaneous Equipment	103,280	4,412	-			107,692
28	399 Other Tangible Property	46,498	42,124	-			88,622
29	Total General Plant	2,819,005	82,110	0	0	0	2,901,115
30	Total Electric Plant in Service	32,830,997	785,690	538,034	0	0	33,078,653
31	Total Cost of Electric Plant.....						33,078,653
33	Less Cost of Land, Land Rights, Rights of Way.....						22,976
34	Total Cost upon which Depreciation is based .....						33,055,677

The above figures should show the original cost of the existing property. In case any part of the property is sold or retired, the cost of such property should be deducted from the cost of the plant. The net cost of the property, less the land value, should be taken as a basis for figuring depreciation.

<b>COMPARATIVE BALANCE SHEET Assets and Other Debits</b>					
Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)	
1	<b>UTILITY PLANT</b>				
2	101 Utility Plant - Electric (P. 17)	14,462,605	14,264,054	(198,551)	
3	101 Utility Plant - Gas (P. 20)	0	0	0	
4					
5	Total Utility Plant	14,462,605	14,264,054	(198,551)	
6					
7					
8					
9					
10					
11	<b>FUND ACCOUNTS</b>				
12	125 Sinking Funds	0	0	0	
13	126 Depreciation Fund (P. 14)	524,739	407,609	(117,130)	
14	128 Other Special Funds	1,334,327	1,580,345	246,018	
15	Total Funds	1,859,066	1,987,954	128,888	
16	<b>CURRENT AND ACCRUED ASSETS</b>				
17	131 Cash (P. 14)	118,657	521,965	403,308	
18	132 Special Deposits	101,166	122,577	21,411	
19	135 Working Funds	300	300	0	
20	141 Notes Receivable	0	0	0	
21	142 Customer Accounts Receivable	649,739	1,027,858	378,119	
22	143 Other Accounts Receivable	30,000	5,480	(24,520)	
23	146 Receivables from Municipality	0	0	0	
24	151 Materials and Supplies (P. 14)	143,033	162,031	18,998	
25	165 Prepayments	1,805,078	1,799,309	(5,769)	
26	174 Miscellaneous Current Assets	0	0	0	
27	Total Current and Accrued Assets	2,847,973	3,639,520	791,547	
28	<b>DEFERRED DEBITS</b>				
29	181 Unamortized Debt Discount	97,724	88,439	(9,285)	
30	182 Extraordinary Property Losses	0	0	0	
31	185 Other Deferred Debits	1,794,959	1,845,631	50,672	
32	Total Deferred Debits	1,892,683	1,934,070	41,387	
33					
34	Total Assets and Other Debits	21,062,327	21,825,598	763,271	

<b>COMPARATIVE BALANCE SHEET Liabilities and Other Credits</b>					
Line No.		Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1		<b>APPROPRIATIONS</b>			
2	201	Appropriations for Construction	0	0	0
3		<b>SURPLUS</b>			
4	205	Sinking Fund Reserves	0	0	0
5	206	Loans Repayment	0	0	0
6	207	Appropriations for Construction Repayments	0	0	0
7	208	Unappropriated Earned Surplus (P. 12)	6,123,489	6,255,862	132,373
8		Total Surplus	6,123,489	6,255,862	132,373
9		<b>LONG TERM DEBT</b>			
10	221	Bonds (P. 6)	5,410,000	4,930,000	(480,000)
11	231	Notes Payable (P. 7)	0	0	0
12		Total Bonds and Notes	5,410,000	4,930,000	(480,000)
13		<b>CURRENT AND ACCRUED LIABILITIES</b>			
14	232	Accounts Payable	2,589,613	2,216,763	(372,850)
15	234	Payables to Municipality	0	0	0
16	235	Customers' Deposits	139,522	130,128	(9,394)
17	236	Taxes Accrued	0	0	0
18	237	Interest Accrued	20,340	18,240	(2,100)
19	242	Miscellaneous Current and Accrued Liabilities	203,368	171,722	(31,646)
20		Total Current and Accrued Liabilities	2,952,843	2,536,853	(415,990)
21		<b>DEFERRED CREDITS</b>			
22	251	Unamortized Premium on Debt	161,821	147,037	(14,784)
23	252	Customer Advances for Construction	0	0	0
24	253	Other Deferred Credits	2,563,565	3,632,346	1,068,781
25		Total Deferred Credits	2,725,386	3,779,383	1,053,997
26		<b>RESERVES</b>			
27	260	Reserves for Uncollectible Accounts	34,581	21,894	(12,687)
28	261	Property Insurance Reserve	0	0	0
29	262	Injuries and Damages Reserves	0	0	0
30	263	Pensions and Benefits Reserves	3,816,028	4,301,606	485,578
31	265	Miscellaneous Operating Reserves	0	0	0
32		Total Reserves	3,850,609	4,323,500	472,891
33		<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>			
34	271	Contributions in Aid of Construction	0	0	0
35		Total Liabilities and Other Credits	21,062,327	21,825,598	763,271

<b>STATEMENT OF INCOME FOR THE YEAR</b>			
Line No.	Account (a)	Current Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>OPERATING INCOME</b>		
2	400 Operating Revenues (P. 37 and 43)	17,645,727	1,402,044
3	Operating Expenses:		
4	401 Operation Expense (p. 42 and 47)	14,433,169	719,928
5	402 Maintenance Expense	987,156	(8,406)
6	403 Depreciation Expense	984,241	4,933
7	407 Amortization of Property Losses	0	0
8			
9	408 Taxes (P. 49)	0	0
10	Total Operating Expenses	16,404,566	716,455
11	Operating Income	1,241,161	685,589
12	414 Other Utility Operating Income (P. 50)	0	0
13			
14	Total Operating Income	1,241,161	685,589
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	0	0
17	419 Interest Income	(1,437)	(8,749)
18	421 Miscellaneous Nonoperating Income (P. 21)	0	0
19	Total Other Income	(1,437)	(8,749)
20	Total Income	1,239,724	676,840
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization	0	0
23	426 Other Income Deductions	0	0
24	Total Income Deductions	0	0
25	Income Before Interest Charges	1,239,724	676,840
26	<b>INTEREST CHARGES</b>		
27	427 Interest on Bonds and Notes	205,475	(21,200)
28	428 Amortization of Debt Discount and Expense	9,285	0
29	429 Amortization of Premium on Debt - Credit	(14,784)	0
30	431 Other Interest Expense	1,361	733
31	432 Interest: Charged to Construction - Credit	0	0
32	Total Interest Charges	201,337	(20,467)
33	<b>NET INCOME</b>	1,038,387	697,307
<b>EARNED SURPLUS</b>			
Line No.	Account (a)	Debits (b)	Credits (c)
34	208 Unappropriated Earned Surplus (at beginning of period)		6,123,489
35			
36	433 Balance Transferred from Income		1,038,387
37	434 Miscellaneous Credits to Surplus (P. 21)		0
38	435 Miscellaneous Debits to Surplus (P. 21)	639,988	
39	436 Appropriations of Surplus (P. 21)	266,026	
40	437 Surplus Applied to Depreciation	0	
41	208 Unappropriated Earned Surplus (at end of period)	6,255,862	
42			
43			
44	<b>TOTALS</b>	7,161,876	7,161,876

<b>CASH BALANCES AT END OF YEAR</b>			
Line No.	Items (a)	Amount (b)	
1	Operating Fund	521,965	
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
	<b>TOTAL</b>	521,965	
<b>MATERIALS AND SUPPLIES (Accounts 151-159, 163)</b>			
<b>Summary per Balance Sheet</b>			
Line No.	Account (a)	Amount End of Year	
		Electric (b)	Gas (c)
13	Fuel (Account 151 ) (See Schedule, Page 25)	51,510	
14	Fuel Stock Expenses (Account 152)		
15	Residuals (Account 153)		
16	Plant Materials and Operating Supplies (Account 154 (151))	110,521	
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	162,031	0
<b>DEPRECIATION FUND ACCOUNT (Account 126)</b>			
Line No.	(a)	Amount (b)	
24	<b>DEBITS</b>		
25	Balance of account at beginning of year	524,739	
26	Income during year from balance on deposit (interest)	2,275	
27	Amount transferred from income (depreciation)	1,006,278	
28	Amount transferred in from surplus & other transfers in	0	
29			
	<b>TOTAL</b>	1,533,292	
30	<b>CREDITS</b>		
31	Amount expended for construction purposes (Sec. 57,C.164 of G.L.)	785,683	
32	Amounts expended for renewals,viz:-		
33	Bond Princpal Payment	340,000	
34	Amount repaid to Rate Stabilization		
35			
36			
37			
38			
39	Balance on hand at end of year	407,609	
40			
	<b>TOTAL</b>	1,533,292	





UTILITY PLANT - ELECTRIC (Continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights						
3	331 Structures and Improvements						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators						
6	334 Accessory Electric Equipment						
7	335 Miscellaneous Power Plant Equipment						
8	336 Roads, Railroads and Bridges						
9	Total Hydraulic Production Plant	0	0	0	0	0	0
10	D. Other Production Plant						
11	340 Land and Land Rights	841	-	-			841
12	341 Structures and Improvements	11,663	-	1,122			10,541
13	342 Fuel Holders, Producers and Accessories	8,309	-	800			7,509
14	343 Prime Movers	727,235	75,291	77,230			725,296
15	344 Generators	1,645,703	-	158,372			1,487,331
16	345 Accessory Electric Equipment	34,418	-	3,312			31,106
17	346 Miscellaneous Power Plant Equipment	271,898	37,272	29,752			279,418
18	Total Other Production Plant	2,700,067	112,563	270,588	0	0	2,542,042
19	Total Production Plant	2,700,067	112,563	270,588	0	0	2,542,042
20	3. Transmission Plant						
21	350 Land and Land Rights	17,707	-	-			17,707
22	351 Clearing Land and Rights of Way	4,428	-	-			4,428
23	352 Structures and Improvements	-	-	-			-
24	353 Station Equipment	-	-	-			-
25	354 Towers and Fixtures	-	-	-			-
26	355 Poles and Fixtures	618,416	1,182	31,456			588,142
27	356 Overhead Conductors and Devices	529,064	-	26,860			502,204
28	357 Underground Conduit	-	-	-			-
29	358 Underground Conductors and Devices	-	-	-			-
30	359 Roads and Trails	-	-	-			-
31	Total Transmission Plant	1,169,615	1,182	58,316	0	0	1,112,481

UTILITY PLANT -- ELECTRIC (Continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights	-	-	-			-
3	361 Structures and Improvements	9,644	-	541			9,103
4	362 Station Equipment	4,092,995	93,257	235,034			3,951,218
5	363 Storage Battery Equipment	-	-	-			-
6	364 Poles Towers and Fixtures	888,739	128,922	57,136			960,525
7	365 Overhead Conductors and Devices	832,891	68,983	50,635			851,239
8	366 Underground Conduit	10,975	2,005	729			12,251
9	367 Underground Conductors and Devices	766,547	730	43,078			724,199
10	368 Line Transformers	647,394	50,327	39,173			658,548
11	369 Services	176,235	32,677	11,729			197,183
12	370 Meters	645,200	57,237	39,438			662,999
13	371 Installations on Customer's Premises	982,805	98,776	60,725			1,020,856
14	372 Leased Prop on Customer's Premises	-	-	-			-
15	373 Streetlight and Signal Systems	522,825	56,921	32,549			547,197
16	Total Distribution Plant	9,576,250	589,835	570,767	0	0	9,595,318
17	5. GENERAL PLANT						
18	389 Land and Land Rights	-	-	-			-
19	390 Structures and Improvements	112,865	4,900	9,064			108,701
20	391 Office Furniture and Equipment	67,275	-	5,178			62,097
21	392 Transportation Equipment	663,002	-	51,029			611,973
22	393 Stores Equipment	3,174	-	244			2,930
23	394 Tools, Shop and Garage Equipment	74,075	17,233	7,028			84,280
24	395 Laboratory Equipment	12,552	-	966			11,586
25	396 Power Operated Equipment	-	-	-			-
26	397 Communication Equipment	10,420	13,441	1,837			22,024
27	398 Miscellaneous Equipment	30,353	4,412	2,676			32,089
28	399 Other Tangible Property	42,957	42,124	6,548			78,533
29	Total General Plant	1,016,673	82,110	84,570	0	0	1,014,213
30	Total Electric Plant in Service	14,462,605	785,690	984,241	0	0	14,264,054
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	14,462,605	785,690	984,241	0	0	14,264,054

**PRODUCTION FUEL AND OIL STOCKS (Included in Account 151)**

(Except Nuclear Materials)

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

Line No.	Item (a)	Total Cost (b)	Kinds of Fuel and Oil			
			NUMBER 2 DIESEL		NATURAL GAS	
			Quantity (c)	Cost (d)	Quantity (e)	Cost (f)
1	On Hand Beginning of Year	\$ 44,357	19,392	\$ 44,357		
2	Received During Year	32,492	12,625	32,492	-	-
3	TOTAL	\$ 76,849	32,017	\$ 76,849	-	\$ -
4	Used During Year (Note A)					
5	Prime Mover Fuel	32,726	13,847	32,726	-	-
6						
7						
8						
9						
10						
11	Sold or Transferred	-				
12	TOTAL DISPOSED OF	32,726	13,847	32,726	-	-
13	BALANCE END OF YEAR	\$ 44,123	18,170	44,123	-	\$ -
			Kinds of Fuel and Oil - continued			
Line No.	Item (g)	LUBE OIL				
		Quantity (h)	Cost (i)	Quantity (j)	Cost (k)	
14	On Hand Beginning of Year		726	\$ 10,582		
15	Received During Year		0	0		
16	TOTAL		726	\$ 10,582		
17	Used During Year (Note A)					
18	Prime Mover lubricants		213	3,195		
19						
20						
21						
22						
23						
24	Sold or Transferred					
25	TOTAL DISPOSED OF		213	3,195		
26	BALANCE END OF YEAR		513	7,387		

<b>MISCELLANEOUS NONOPERATING INCOME (Account 421)</b>		
Line No.	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6	<b>TOTAL</b>	0
<b>OTHER INCOME DEDUCTIONS (Account 426)</b>		
Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14	<b>TOTAL</b>	0
<b>MISCELLANEOUS CREDITS TO SURPLUS (Account 434)</b>		
Line No.	Item (a)	Amount (b)
15		
16		
17		
18		
19		
20		
21		
22		
23	<b>TOTAL</b>	0
<b>MISCELLANEOUS DEBITS TO SURPLUS (Account 435)</b>		
Line No.	Item (a)	Amount (b)
24	Prior Period Adjustment (Implementation of GASB 75)	639,988
25		
26		
27		
28		
29		
30		
31		
32	<b>TOTAL</b>	639,988
<b>APPROPRIATIONS OF SURPLUS (Account 436)</b>		
Line No.	Item (a)	Amount (b)
33	Payment In Lieu of Taxes	266,026
34		
35		
36		
37		
38		
39		
40	<b>TOTAL</b>	266,026

<b>MUNICIPAL REVENUES (Account 482,444)</b> (K.W.H. Sold under the provision of Chapter 269, Acts of 1927)						
Line No.	Acct. No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue Per MCF (cents) (0.0000) (d)	
1						
2						
3						
4		<b>TOTALS</b>				
		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue Per KWH (cents) (0.0000) (d)	
5	4442	Municipal Building M1: (Other Than Street Lighting)	3,179,709	485,056	0.1525	
6	4443	Municipal Building M2: (Other Than Street Lighting)	1,811,866	267,731	0.1478	
7						
8						
9						
10						
11						
12		<b>TOTALS</b>	4,991,575	752,787	0.1508	
13	4441	Street Lighting	345,875	62,985	0.1821	
14						
15						
16						
17						
18		<b>TOTALS</b>	345,875	62,985	0.1821	
19		<b>TOTALS</b>	5,337,450	815,772	0.1528	
<b>PURCHASED POWER (Account 555)</b>						
Line No.	Names of Utilities from Which Electric Energy is Purchased (a)		Where and at What Voltage Received (b)	K.W.H (c)	Amount (d)	Cost per KWH (cents) (0.0000) (e)
20	See Pages 54 and 55					
21						
22						
23						
24						
25						
26						
27						
28						
29	<b>TOTALS</b>	0	0			
<b>SALES FOR RESALE (Account 447)</b>						
Line No.	Names of Utilities to Which Electric Energy is sold (a)		Where and at What Voltage Delivered (b)	K.W.H (c)	Amount (d)	Revenue per KWH (cents) (0.0000) (e)
30	<b>None</b>					
31						
32						
33						
34						
35						
36						
37						
38						
39						

**ELECTRIC OPERATING REVENUES (Account 400)**

1. Report below the amount of operating revenue for the year for each prescribed account and the amount of increase or decrease over the preceding year.
2. If increases and decreases are not derived from previously reported figures, explain any inconsistencies.
3. Number of customers should be reported on the basis of meters, plus number of late rate accounts except where separate

meter readings are added for billing purposes, one customer shall be counted for each group of meters so added. The average number of customers means the average of the 12 figures at the close of each month. If the customer count in the residential service classification includes customers counted more than once because of special services, such as water heating, etc., indicate in a footnote the number of such duplicate customers included in the classification.

4. Unmetered sales should be included below. The details of such sales should be given in a footnote.
5. Classification on Commercial and Industrial Sales, Account 442, Large (or Industrial) may be according to the basis of classification regularly used by the respondent if such basis of classification is not greater than 1000 KW. See Account 442 of the Uniform System of Accounts. Explain basis of Classification

Line No.	Account (a)	Operating Revenues		Kilowatt-hours Sold		Average Number of Customers per Month	
		Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)	Amount for Year (d)	Increase or (Decrease) from Preceding Year (e)	Number for Year (f)	Increase or (Decrease) from Preceding Year (g)
1	<b>SALES OF ELECTRICITY</b>						
2	440 Residential Sales	7,787,267	737,626	48,873,741	1,483,674	6,076	0
3	442 Commercial and Industrial Sales:						
4	Small Commercial B Sales	821,195	82,143	4,965,871	137,525	701	10
5	Large Commercial C Sales	8,094,963	614,624	51,633,586	29,443	224	9
6	444 Municipal Sales	815,772	106,734	5,337,450	(175,973)	48	0
7	445 Other Sales to Public Authorities	0	0	0	0	0	0
8	446 Sales to Railroads and Railways	0	0	0	0	0	0
9	448 Interdepartmental Sales	0	0	0	0	0	0
10	449 Miscellaneous Sales	34,011	(505)	175,000	0	111	1
11	<b>Total Sales to Ultimate Consumers</b>	17,553,208	1,540,622	110,985,648	1,474,669	7,160	20
12	447 Sales for Resale	0	0	0	0	0	0
13	<b>Total Sales of Electricity*</b>	17,553,208	1,540,622	110,985,648	1,474,669	7,160	20
14	<b>OTHER OPERATING REVENUES</b>						
15	450 Forfeited Discounts	(383,300)	44,038				
16	451 Miscellaneous Service Revenues	479,743	(147,233)				
17	453 Sales of Water and Water Power	0	0				
18	454 Rent from Electric Property	0	0				
19	455 Interdepartmental Rents	0	0				
20	456 Other Electric Revenues	(3,924)	(35,383)				
21							
22							
23							
24							
25	Total Other Operating Revenues	92,519	(138,578)				
26	Total Electric Operating Revenue	17,645,727	1,402,044				

\* Includes revenues from application of fuel clauses \$ 17,456,212

Total KWH to which applied 110,464,773

**SALES OF ELECTRICITY TO ULTIMATE CONSUMERS**

Report by account number the K.W.H. sold, the amount derived and the number of customers under each filed schedule or contract. Municipal sales, contract sales and unbilled sales may be reported separately in total.

Line No.	Account No.	Schedule (a)	K.W.H. (b)	Revenue (c)	Average Revenue per KWH (cents) (0.0000) (d)	Number of Customers (per Bills rendered)	
						July 31 (e)	Dec 31 (f)
1	4400	Residential A	48,873,741	7,787,267	0.1593	6,076	6,076
2	4421	Commercial	4,965,871	821,195	0.1654	703	698
3	4422	Industrial	51,633,586	8,094,963	0.1568	221	226
4	4442	Municipal Building M1	3,179,709	485,056	0.1525	30	29
5	4443	Municipal Building M2	1,811,866	267,731	0.1478	17	17
6	4441	Municipal Street Lighting	345,875	62,985	0.1821	1	1
7	4424	Outdoor Area Lighting	175,000	34,011	0.1943	111	111
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL SALES TO ULTIMATE CONSUMERS (page 37 Line 11)			110,985,648	17,553,208	0.1582	7,159	7,158



<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES</b>			
1. Enter in the space provided the operation and maintenance expenses for the year			
2. If the increases and decreases are not derived from previously reported figures, explain in footnote			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>POWER PRODUCTION EXPENSES</b>		
2	<b>STEAM POWER GENERATION</b>		
3	Operation:		
4	500 Operation supervision and engineering	0	0
5	501 Fuel	0	0
6	502 Steam Expenses	0	0
7	503 Steam from other sources	0	0
8	504 Steam transferred -- Cr.	0	0
9	505 Electric expenses	0	0
10	506 Miscellaneous steam power expenses	0	0
11	507 Rents	0	0
12	Total Operation	0	0
13	Maintenance:		
14	510 Maintenance supervision and engineering	0	0
15	511 Maintenance of Structures	0	0
16	512 Maintenance of boiler plant	0	0
17	513 Maintenance of electric plant	0	0
18	514 Maintenance of miscellaneous steam plant	0	0
19	Total Maintenance	0	0
20	Total power production expenses -steam power	0	0
21	<b>NUCLEAR POWER GENERATION</b>		
22	Operation:		
23	517 Operation supervision and engineering	0	0
24	518 Fuel	0	0
25	519 Coolants and water	0	0
26	520 Steam Expenses	0	0
27	521 Steam from other sources	0	0
28	522 Steam transferred -- Cr.	0	0
29	523 Electric expenses	0	0
30	524 Miscellaneous nuclear power expenses	0	0
31	525 Rents	0	0
32	Total Operation	0	0
33	Maintenance:		
34	528 Maintenance supervision and engineering	0	0
35	529 Maintenance of Structures	0	0
36	530 Maintenance of reactor plant	0	0
37	531 Maintenance of electric plant	0	0
38	532 Maintenance of miscellaneous nuclear plant	0	0
39	Total Maintenance	0	0
40	Total power production expenses -nuclear power	0	0
41	<b>HYDRAULIC POWER GENERATION</b>		
42	Operation:		
43	535 Operation supervision and engineering	0	0
44	536 Water for power	0	0
45	537 Hydraulic expenses	0	0
46	538 Electric expenses	0	0
47	539 Miscellaneous hydraulic power generation expenses	0	0
48	540 Rents	0	0
49	Total Operation	0	0

<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued</b>			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>HYDRAULIC POWER GENERATION - Continued</b>		
2	Maintenance:		
3	541 Maintenance Supervision and engineering	0	0
4	542 Maintenance of structures	0	0
5	543 Maintenance or reservoirs, dams and waterways	0	0
6	544 Maintenance of electric plant	0	0
7	545 Maintenance of miscellaneous hydraulic plant	0	0
8	Total maintenance	0	0
9	Total power production expenses - hydraulic power	0	0
10	<b>OTHER POWER GENERATION</b>		
11	Operation:		
12	546 Operation supervision and engineering	49,258	41,328
13	547 Fuel	47,386	25,936
14	548 Generation Expenses	388,045	83,670
15	549 Miscellaneous other power generation expense	19,868	(11,163)
16	550 Rents	0	0
17	Total Operation	504,557	139,771
18	Maintenance:		
19	551 Maintenance supervision and engineering	44,822	28,868
20	552 Maintenance of Structures	290	(17,339)
21	553 Maintenance of generating and electric plant	10,607	(1,511)
22	554 Maintenance of miscellaneous other power generation plant	30,065	5,258
23	Total Maintenance	85,784	15,276
24	Total power production expenses - other power	590,341	155,047
25	<b>OTHER POWER SUPPLY EXPENSES</b>		
26	555 Purchased power	9,161,352	761,533
27	556 System control and load dispatching	0	0
28	557 Other expenses	130,764	(9,180)
29	Total other power supply expenses	9,292,116	752,353
30	Total power production expenses	9,882,457	907,400
31	<b>TRANSMISSION EXPENSES</b>		
32	Operation:		
33	560 Operation supervision and engineering	0	0
34	561 Load dispatching	0	0
35	562 Station expenses	0	0
36	563 Overhead line expenses	0	0
37	564 Underground line expenses	0	0
38	565 Transmission of electricity by others	3,347,913	74,928
39	566 Miscellaneous transmission expenses	0	0
40	567 Rents	0	0
41	Total Operation	3,347,913	74,928
42	Maintenance:		
43	568 Maintenance supervision and engineering	0	0
44	569 Maintenance of structures	0	0
45	570 Maintenance of station equipment	0	0
46	571 Maintenance of overhead lines	0	0
47	572 Maintenance of underground lines	0	0
48	573 Maintenance of miscellaneous transmission plant	0	0
49	Total maintenance	0	0
50	Total transmission expenses	3,347,913	74,928

<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued</b>			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>DISTRIBUTION EXPENSES</b>		
2	Operation:		
3	580 Operation supervision and engineering	65,839	34,005
4	581 Load dispatching (Operation Labor)	0	0
5	582 Station expenses Transportation	9,003	8,549
6	583 Overhead line expenses	92,367	46,362
7	584 Underground line expenses	0	(2,240)
8	585 Street lighting and signal system expenses	433	(24)
9	586 Meter expenses	24,108	(863)
10	587 Customer installations expenses	0	0
11	588 Miscellaneous distribution expenses	56,380	14,623
12	589 Rents	0	0
13	Total operation	248,130	100,412
14	Maintenance:		
15	590 Maintenance supervision and engineering	72,683	4,802
16	591 Maintenance of structures	10,917	2,655
17	592 Maintenance of station equipment	62,177	37,152
18	593 Maintenance of overhead lines	818,770	(55,868)
19	594 Maintenance of underground lines	214	22
20	595 Maintenance of line transformers	2,915	86
21	596 Maintenance of street lighting and signal systems	7,387	4,115
22	597 Maintenance of meters	7,333	(659)
23	598 Maintenance of miscellaneous distribution plant	4,760	(711)
24	Total maintenance	987,156	(8,406)
25	Total distribution expenses	1,235,286	92,006
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	Operation:		
28	901 Supervision	19,449	8,330
29	902 Meter reading expenses	14,364	380
30	903 Customer records and collection expenses	184,852	20,822
31	904 Uncollectible accounts	(7,984)	(15,646)
32	905 Miscellaneous customer accounts expenses	0	0
33	Total customer accounts expenses	210,681	13,886
34	<b>SALES EXPENSES</b>		
35	Operation:		
36	911 Supervision	0	0
37	912 Demonstrating and selling expenses	0	0
38	913 Advertising expenses	0	0
39	916 Miscellaneous sales expenses	0	0
40	Total sales expenses	0	0
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	Operation:		
43	920 Administrative and general salaries	224,605	(149,845)
44	921 Office supplies and expenses	82,669	(10,269)
45	922 Administrative expenses transferred - Cr	0	0
46	923 Outside services employed	89,304	(1,160)
47	924 Property insurance	46,560	1,459
48	925 Injuries and damages	23,658	(2,095)
49	926 Employee pensions and benefits	251,186	(179,207)
50	928 Regulatory commission expenses	0	0
51	929 Store Expense	0	0
52	930 Miscellaneous general expenses	26,006	(35,581)
53	931 Rents	0	0
54	Total operation	743,988	(376,698)

<b>ELECTRIC OPERATION AND MAINTENANCE EXPENSES - Continued</b>				
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)	
1	<b>ADMINISTRATIVE AND GENERAL EXPENSES - Cont.</b>			
2	Maintenance:			
3	932 Maintenance of general plant	0	0	
4	Total administrative and general expenses	743,988	(376,698)	
5	Total Electric Operation and Maintenance Expenses	15,420,325	711,522	
<b>SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES</b>				
Line No.	Functional Classification (a)	Operation (b)	Maintenance (c)	Total (d)
6	<b>Power Production Expenses</b>			
7	Electric Generation:			
8	Steam Power:			
9	Nuclear Power			
10	Hydraulic Power			
11	Other Power	590,341	0	590,341
12	Other Power Supply Expenses	9,292,116	0	9,292,116
13	Total power production expenses	9,882,457		9,882,457
14	Transmission Expenses	3,347,913		3,347,913
15	Distribution Expenses	248,130	987,156	1,235,286
16	Customer Accounts Expenses	210,681		210,681
17	Sales Expenses	0		0
18	Administrative and General Expenses	743,988	0	743,988
19	Total Electric Operation and			
20	Maintenance Expenses	14,433,169	987,156	15,420,325
21	Ratio of operating expenses to operating revenues (carry out decimal two places, (e.g.. 0.00%) Compute by dividing Revenues (Acct 400) into the sum of Operation and Maintenance Expenses (Page 42, line 20 (d), Depreciation (Acct 403) and Amortization (Acct 407)			92.97%
22	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts.			1,781,685
23	Total number of employees of electric department at end of year including administrative, operating, maintenance, construction and other employees (including part-time employees)			19

**TAXES CHARGED DURING THE YEAR**

1. This schedule is intended to give the account distribution of total taxes charged to operations and other final accounts during the year.  
 2. Do not include gasoline and other sales taxes which have been charged to accounts to which the material on which the tax was levied which the tax was levied was charged. If the actual or estimated amounts of such taxes are known, they should be shown as a footnote and designated whether estimated or actual amounts

3. The aggregate of each kind of tax should be listed under the appropriate heading of "Federal", "State" and "Local" in such manner that the total tax for each State and for all subdivisions can be readily ascertained.  
 4. The accounts to which the taxes charged were distributed should be shown in columns (c) to (h). Show both the utility department and number of account charged. For taxes charged to utility plant show the number of the appropriate balance sheet plant account or subaccount.

5. For any tax which it was necessary to apportion more than one utility department account, state in a footnote the basis of apportioning such tax.  
 6. Do not include in this schedule entries with respect to deferred income taxes, or taxes collected through payroll deductions or otherwise pending transmittal of such taxes to the taxing authority.

Line No.	Kind of Tax (a)	Total Taxes Charged During Year (omit cents) (b)	Electric Acct 408,409 (c)	Gas Acct 408,409 (d)	(e)	(f)	(g)	(h)	(i)
1	NONE								
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
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16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28	TOTALS	-	-						

OTHER UTILITY OPERATING INCOME (Account 414)					
Report below the particulars called for in each column					
Line No.	Property (a)	Amount of Investment (b)	Amount of Department (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1					
2	NONE				
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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16					
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45					
46					
47					
48					
49					
50					
51	TOTALS				

**INCOME FROM MERCHANDISE, JOBBING, AND CONTRACT WORK (Account 415)**

Report by utility departments the revenue, costs, expenses, and net income from merchandising, jobbing, and contract work during the year.

Line No.	Item (a)	Electric Department (b)	Gas Department (c)	Other Utility Department (d)	Total (e)
1	Revenues:				
2	Merchandise sales, less discounts,				
3	allowances and returns				
4	Contract work	0			0
5	Commissions				
6	Other (list according to major classes)				
7					
8					
9					
10	Total Revenues	0	0	0	0
11					
12					
13	Costs and Expenses:				
14	Cost of sales (list according to major				
15	classes of cost)				
16					
17	Materials				
18	Outside Service Labor				
19					
20					
21					
22					
23					
24					
25					
26	Sales Expenses				
27	Customer accounts expenses				
28	Administrative and general expenses				
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49	TOTAL COSTS AND EXPENSES	0	0	0	0
50	Net Profit (or loss)	0	0	0	0





SALES FOR RESALE (Account 447) - Continued

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

integrated).

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

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

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

Type of Demand Reading (i)	Voltage at Which Delivered (j)	Revenue (Omit Cents)					Revenue per kwh (CENTS) (0.0000) (p)	Line No.
		Kilowatt-Hours (k)	Capacity Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
None								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								13
								14
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								39
								40
								41
	TOTALS:	0	0.00	0.00		0.00		42



Annual Report of:

IPSWICH MUNICIPAL LIGHT DEPT.

Year Ended December 31, 2018

PURCHASED POWER (Account 555)  
(EXCEPT INTERCHANGE POWER)

4. If receipt of power is at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; seller owned or leased, SS.

5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billing, this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in columns (g) and (h) should be actual based on monthly readings and

should be furnished whether or not used in the determination of demand charges. Show in column (i) type of demand reading (instantaneous, 15, 30, or 60 minute integrated).

6. The number of kilowatt hours purchased should be the quantities shown by the power bills.

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

Type of Demand Reading (i)	Voltage at Which Delivered (j)	Cost of Energy (Omit Cents)					KWH (CENTS) (0.0000) (p)	Line No.
		Kilowatt-Hours (k)	Capacity Charges (l)	Energy Charges (m)	Other Charges (n) **	Total (o)		
60 MINUTES		5,771,620	42,432	30,117	105,032	177,581	\$0.0308	1
60 MINUTES		303,645	39,339	24,272	989	64,600	\$0.2127	2
60 MINUTES		330,470	8,509	1,917	21	10,447	\$0.0316	3
60 MINUTES		3,472,182	112,268	22,146	2,352	136,766	\$0.0394	4
60 MINUTES		3,052,191	100,036	19,468	2,105	121,609	\$0.0398	5
60 MINUTES		9,250,782	248,676	53,676	586	302,938	\$0.0327	6
60 MINUTES		1,140,421	31,266	6,617	72	37,955	\$0.0333	7
		-	-	-	775,268	775,268	N/A	8
		-	-	-	-	-	N/A	9
		-	-	-	2,253,482	2,253,482	N/A	10
		60,667,150	-	2,512,910	-	2,512,910	\$0.0414	11
60 MINUTES		2,908,109	468,966	-	-	468,966	\$0.1613	12
60 MINUTES		1,240,350	-	60,839	89	60,928	\$0.0491	13
60 MINUTES		2,112,251	-	-	163,274	163,274	\$0.0773	14
		2,626,574	(661)	125,781	49	125,169	\$0.0477	15
		-	-	-	570,256	570,256	N/A	16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30
								31
	TOTALS:	92,875,745	1,050,831	2,857,743	3,873,575	7,782,149		32

INTERCHANGE POWER (Included in Account 555)

1. Report below the kilowatt-hours received and delivered during the year and the net charge or credit under interchange power agreements.

2. Provide subheadings and classify interchanges as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A. Cooperatives, and (7) Other Public Authorities. For each interchange across a state line place an "x" in column (b).

3. Particulars of settlements for interchange power

shall be furnished in Part B, Details of Settlement for Interchange Power. If settlement for any transaction also includes credit or debit amounts other than for increment generation expenses, show such other component amounts separately, in addition to debit or credit for increment generation expenses, and give a brief explanation of the factors and principles under which such other component amounts were determined. If such settlement represents the net of debits and credits under an interconnection, power pooling,

coordination, or other such arrangement, submit a copy of the annual summary of transactions and billings among the parties to the agreement. If the amount of settlement reported in this schedule for any transaction does not represent all of the charges and credits covered by the agreement, furnish in a footnote a description of the other debits and credits and state the amounts and accounts in which such other amounts are included for the year.

A. Summary of Interchange According to Companies and Points of Interchange

Line No.	Name of Company (a)	Inter-change Across State Lines (b)	Point of Interchange (c)	Voltage at Which Inter-changed (d)	Kilowatt-hours			Amount of Settlement (h)
					Received (a)	Delivered (f)	Net Difference (g)	
1	NEPEX				121,378,290	100,515,820	20,862,470	4,857,880
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	TOTALS				121,378,290	100,515,820	20,862,470	4,857,880

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)	Amount (k)
13	NEPEX	INTERCHANGE EXPENSE	4,659,878
14		NEPOOL EXPENSE	198,002
15			
16			
17			
18			
19			
20			
21	TOTAL		4,857,880

**ELECTRIC ENERGY ACCOUNT**

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

Line No.	Item (a)			Kilowatt-hours (b)
1	<b>SOURCES OF ENERGY</b>			
2	Generation			
3	Steam			0
4	Nuclear			0
5	Hydro			0
6	Other			0
7	Total Generation			3,727,151
8	Purchases			92,875,745
9		( In (gross)	121,378,290	
10	Interchanges	< Out (gross)	100,515,820	
11		( Net (Kwh)		20,862,470
12		( Received	0	
13	Transmission for/by others (wheeling)	< Delivered	0	
14		( Net (Kwh)		0
15	<b>TOTAL</b>			<b>117,465,366</b>
16	<b>DISPOSITION OF ENERGY</b>			
17	Sales to ultimate consumers (including interdepartmental sales)			110,985,648
18	Sales for resale			0
19	Energy furnished without charge			
20	Energy used by the company (excluding station use):			
21	Electric department only			1,300,964
22	Energy losses			
23	Transmission and conversion losses		3,880,510	
24	Distribution losses		1,298,244	
25	Unaccounted for losses			
26	Total energy losses			5,178,754
27	Energy losses as percent of total on line 15	4.41%		
28		<b>TOTAL</b>		<b>117,465,366</b>

**MONTHLY PEAKS AND OUTPUT**

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

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

**Town of Ipswich**

Line No.	Month (a)	Monthly Peak					Monthly Output (kwh) (See Instr. 4) (g)
		Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	
29	January	20,816	Tuesday	2	18:00	60 min	11,084,111
30	February	17,923	Wednesday	7	18:00	60 min	8,969,532
31	March	17,568	Sat	3	18:00	60 min	9,297,940
32	April	16,240	Monday	16	12:00	60 min	8,765,240
33	May	16,595	Thursday	3	14:00	60 min	8,478,514
34	June	20,449	Friday	29	18:00	60 min	9,065,957
35	July	25,290	Tuesday	3	16:00	60 min	11,556,880
36	August	27,169	Wednesday	29	16:00	60 min	12,285,574
37	September	25,717	Thursday	6	15:00	60 min	9,663,559
38	October	17,124	Wednesday	10	19:00	60 min	8,984,741
39	November	17,205	Tuesday	20	19:00	60 min	9,308,300
40	December	18,469	Tuesday	18	20:00	60 min	10,005,018
41						<b>TOTAL</b>	<b>117,465,366</b>

## GENERATING STATIONS

Page 58-59

GENERATING STATION STATISTICS (Large Stations)  
(Except Nuclear)

Pages 58-59

Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)	Plant (e)
1	Kind of plant (Steam, Hydro, Int. Comb.)	Internal Comb.	Wind Turbine		
2	Type of plant construction (conventional outdoor boiler, full outdoor, etc)	Conventional			
3	Year originally constructed	1904	May, 2011		
4	Year last unit installed	1984	May, 2011		
5	Total installed capacity (maximum generator name plate ratings in kw)	12,560	1,600		
6	Net peak demand on plant-kilowatts (60 min)	10.595	1,600		
7	Plant hours connected to load	30	2,182		
8	Net continuous plant capability, kilowatts:				
9	(a) when not limited by condenser water				
10	(b) when limited by condenser water				
11	Average number of employees	2			
12	Net generation, exclusive of station use	235,560	3,491,591		
13	Cost of plant (omit cents):				
14	Land and land rights	841			
15	Structures and improvements	327,236			
16	Reservoirs, dams and waterways				
17	Equipment costs	5,829,372	2272617		
18	Roads, railroads and bridges				
19	Total cost	6,157,449	2,272,617		
20	Cost per kw of installed capacity	490.243	1420.386		
21	Production expenses:				
22	Operation supervision and engineering	45,859	11945		
23	Station labor	206,659			
24	Fuel	47,386			
25	Supplies & Expenses, including water	0			
26	Maintenance	105,653	151329		
27	Rents				
28	Steam from other sources	0			
29	Steam transferred - credit	0			
30	Total production expenses	405,557	163,274		
31	Expenses per net Kwh (5 places)				
32	Fuel: Kind	#2 Fuel oil	Natural Gas		
33	Unit(coal-tons of 2,000 lb)(oil-barrels of 42 gals.)Gas-Mcu.ft.)(nuclear,indicate)	Barrels	M. cu. ft.		
34	Quantity (units) fuel consumed	330	781		
35	Average heat content of fuel (B.t.u. per lb of coal, per gal. of oil, or per cu.ft. of gas)	140,000	1,010,000		
36	Average cost of fuel per unit, del fob plant	135.030	1.614		
37	Average cost of fuel per unit consumed	126.378	1.614		
38	Average cost of fuel consumed per million B.t.u.		1.614		
39	Average cost of fuel consumed per kwh net gen	0.338	0.047		
40	Average B.t.u. per kwh net generation	390	2,046		

STEAM GENERATING STATIONS					Pages 60-61
Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)	Plant (e)
1	NONE				
2					
3					
4					
5					
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17					
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19					
20					
HYDROELECTRIC GENERATING STATIONS					Pages 62-63
Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)	Plant (e)
1	NONE				
2					
3					
4					
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GENERATING STATIONS

COMBUSTION ENGINE AND OTHER GENERATING STATIONS  
(Except Nuclear)

Pages 64-65

PRIME MOVERS

Line No.	Name of Station (a)	Location of Station (b)	Diesel Other type Engine (c)	Name of Maker (d)	Year Installed (e)	2 or 4 Cycle (f)	Belted or Direct Connected (g)
1	Engine #1 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1984	2	Direct
2	Engine #2 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1954	2	Direct
3	Engine #3 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1941	2	Direct
4	Engine #4 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1937	2	Direct
5	Engine #6 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1951	2	Direct
6	Engine #7 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1956	2	Direct
7	Engine #8 High Street	Ipswich, MA	Diesel	Cooper-Bessemer	1960	4	Direct
8	Engine #9 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1961	2	Direct
9	Engine #10 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1984	2	Direct
10	Engine #11 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1982	2	Direct
11	Engine #12 High Street	Ipswich, MA	Diesel	Fairbanks-Morse	1983	2	Direct
12							
13							
14	Ipswich Wind #1 - Town Farm Road	Ipswich, MA	Wind	General Electric	May 18, 2011		Direct
15							
16							
17							
18							
19							
20							
21							
22							



GENERATING STATIONS								Page 65	
COMBUSTION ENGINE AND OTHER GENERATING STATIONS (Except Nuclear) Pages 64-65									
PRIME MOVERS CONTINUED		Generators							
Rated hp. of Unit	Total Rated hp. of Station Prime movers	Year Installed	Voltage	Phase	Frequency or dc.	Name Plate Rating of Unit in Kilowatts	Number of Units in Station	Total Installed Generating Capacity in Kilowatts (name plate rating)	Line No.
(h)	(l)	(j)	(k)	(l)	(m)	(n)		(p)	
1750		1984	4160	3	60	1,250			1
1920		1954	4160	3	60	1,360			2
1050		1941	2400	3	60	600			3
875		1937	2400	3	60	600			4
1600		1951	4160	3	60	1,140			5
1920		1956	4160	3	60	1,360			6
1600		1960	4160	3	60	1,140			7
1920		1961	4160	3	60	1,360			8
1750		1984	4160	3	60	1,250			9
1750		1982	4160	3	60	1,250			10
1750		1983	4160	3	60	1,250			11
	17,885						11	12,560	12
N/A		May 18, 2011	690	3	60	1,600	1	1600	13
									14
									15
									16
									17
									18
									19
									20
									21
									22
					TOTALS	14,160	12	14,160	23

<b>GENERATING STATION STATISTICS (Small Stations)</b>					<b>Page 66</b>
<b>Line No.</b>	<b>Item (a)</b>	<b>Plant (b)</b>	<b>Plant (c)</b>	<b>Plant (d)</b>	<b>Plant (e)</b>
1	<b>NONE</b>				
2					
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TRANSMISSION LINE STATISTICS								
Report information concerning transmission line as indicated below.								
Line No.	Designation		Operating Voltage (c)	Type of Supportive Structure (d)	Length (Pole Miles)		Number of Circuits (g)	Size of Conductors and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1	High Street	Vermette Court	23,000	Wood Pole		2.9	1	336 MCM Aluminum
2	Power Plant	Unit Sub-						
3	& Substation	Station						
4								
5	Vermette Ct	Fowler's Lane	23,000	Wood Pole		0.8	1	477 MCM Aluminum
6	Unit Sub-	Sub-Station						
7	Station							
8			23,000	Wood Pole		1.3	1	795 MCM Aluminum
9	High Street	Rowley-Ipswich						
10	Power Plant	Town Line						
11	Line #2373	Con New England	23,000	Wood Pole		1.3	1	795 MCM Aluminum
12		Power Co Line						
13								
14	High Street	Rowley-Ipswich	23,000	Wood Pole		1.3	1	795 MCM Aluminum
15	Power Plant	Town Line						
16	Line #2394	Con New England						
17		Power Co Line	23,000	Wood Pole		2.1	1	477 MCM Aluminum
18								
19	High Street	Fowler's Lane						
20	Sub-Station	Sub-Station	13,800	Wood Pole		2.2	1	336 MCM Aluminum
21								
22								
23	Ipswich Wind	Fowler's Lane	13,800	Wood Pole		2.2	1	336 MCM Aluminum
24	Town Farm Rd	Sub-Station						
25			TOTALS		0	10.6	6	
26								
27								
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52								

**SUBSTATIONS**

1. Report below the information called for concerning substations of the respondent as of the end of the year.  
 2. Substations which serve but one industrial or street railway customer should not be listed hereunder.  
 3. Substations with capacities of less than 5000 kva, except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.

4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended.  
 5. Show in columns (i), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.  
 6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give

name of lessor, date and period of lease and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses of other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner or other party is an associated company.

Line No.	Name and Location of Substation (a)	Character of Substation (b)	Voltage			Capacity of Substation in kva (In Service) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number of Units (j)	Total Capacity (k)
1	Substation #6	Step down for purchased power from New England Power Company	23,000	13,800	-	20,000	1	0			
2	Vermette Court										
3	Transformer #1										
4	Substation #6	Step down for purchased power from New England Power Company	23,000	13,800	-	20,000	1	0			
5	Vermette Court										
6	Transformer #2										
7	Substation #4	Step down for purchased power from New England Power Company	23,000	7,970/13,800	-	9,375	1	0			
8	High Street										
9	Transformer #1										
11	Substation #4	Step down for purchased power from New England Power Company	23,000	7,970/13,800	-	10,500	1	0			
12	High Street										
13	Transformer #2										
15	Substation #5	Step down for purchased power from New England Power Company	23,000	7,970/13,800	-	10,500	1	0			
16	Fowler's Lane										
17											
19	Substation #5	Step down for purchased power from New England Power Company	23,000	7,970/13,800	-	11,000	1	0			
20	Fowler's Lane										
21											
26			TOTALS			81,375	6	0			

**OVERHEAD DISTRIBUTION LINES OPERATED**

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles -- Beginning of Year	108.000	0.000	108.000
2	Added During Year	0.000		0.000
3	Retired During Year	0.000		0.000
4	Miles -- End of Year	108.000	0.000	108.000
5	*			
6				
7				
8	Distribution System Characteristics - AC or DC, Phase, cycles and operating voltages for Light and Power			
9				
10	Three-phase, AC distribution system, 60 cycles, 13,800 volts			
11				
12				
13				
14				
15				

**ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS**

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (kva)
16	Number at beginning of year:	6,733	7,854	1,070	53,376
17	Additions during year	9	25		
18	Purchased	0	0	0	0
19	Installed	9	464	10	800
20	Associated with utility plant acquired				
21	Total Additions	9	489	10	800
22	Reductions during year:				
23	Retirements	0	464	56	600
24	Associated with utility plant sold				
25	Total Reductions	0	464	56	600
26	Number at end of year	6,742	7,879	1,024	53,576
27	In stock		705	54	4,385
28	Locked meters on customers' premises				
29	Inactive transformers on system				
30	In customers' use		7,163		
31	In company's use		11	970	49,191
32	Number at end of year		7,879	1,024	53,576

<b>CONDUIT, UNDERGROUND CABLE AND SUBMARINE CABLE - (Distribution System)</b> Report below the information called for concerning conduit, underground cable, and submarine cable at end of year.						
Line No.	Designation of Underground System (a)	Miles of Conduit Bank (All Sizes and Types) (b)	Underground Cable		Submarine Cable	
			Miles * (c)	Operating Voltage (d)	Feet * (e)	Operating Voltage (f)
1	#2 Conductor	1.50	3.00	4,160		
2	#4 Duct Lane	1.00				
3	#2 Conductor	20.00	19.26	13,800		
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49	TOTALS	23	22	17960	0	0

\* Per circuit mile, measurement based on single-phase

\*indicate number of conductors per cable

**STREET LAMPS CONNECTED TO SYSTEM**

Line No.	City or Town (a)	Total (b)	Type							
			L. E. D.		Mercury Vapor		Florescent & Quartz		Sodium	
			Municipal (c)	Other (d)	Municipal (e)	Other (f)	Municipal (g)	Other (h)	Municipal (i)	Other (j)
1	Ipswich	1,895	1,743	0	0	87	0	0	-	65
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52	TOTALS	1,895	1,743	0	-	87	-	0	-	65

**RATE SCHEDULE INFORMATION**

1. Attach copies of all Filed Rates for General Consumers
2. Show below the changes in rate schedules during year and the estimated increase or decrease in annual revenues predicted on the previous year's operations.

Effective Date	M.D.P.U. Number	Rate Schedule	Estimated Effect on Annual Revenues	
			Increases	Decreases
July 1, 2018	106	Residential	195,495	
July 1, 2018	107	Commercial	19,863	
July 1, 2018	108	Power Rate C	206,534	
July 1, 2018	109	Commercial Heating	10	
July 1, 2018	110	Municipal M1	12,719	
July 1, 2018	111	Municipal M2	7,247	



IPSWICH MUNICIPAL LIGHT DEPARTMENT

# SCHEDULE OF RATES

EFFECTIVE JULY 1, 2018

IPSWICH MUNICIPAL LIGHT DEPARTMENT

**SCHEDULE OF RATES**

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## IPSWICH MUNICIPAL LIGHT DEPARTMENT

### RESIDENTIAL RATE

**ISSUED:** May 4, 2018  
**EFFECTIVE:** July 1, 2018

MDPU 106  
Canceling MDPU 100

#### **AVAILABILITY**

Service under this rate is available to residential customers for all domestic purposes in single family dwelling or individual apartments of multiple dwellings. All electricity shall be for the exclusive use of the customer and shall not be resold.

#### **RATE**

3.97 cents per kWh for all kw-hrs per month

Customer Charge \$4.00 per month per meter.

#### **DISCOUNT**

10 percent discount, if payment is received 10 days from the date of receipt of bill. No discount allowed when arrears are due. No discount allowed on Purchased Power and Fuel Adjustment, or Customer Charge.

#### **PURCHASED POWER AND FUEL ADJUSTMENT**

The Purchased Power and Fuel Adjustment as provided in MDPU Schedule No. 112 is applicable to all kilowatt-hours on this rate.

IPSWICH MUNICIPAL LIGHT DEPARTMENT

**GENERAL OR COMMERCIAL – B**

**ISSUED:** May 4, 2018  
**EFFECTIVE:** July 1, 2018

MDPU 107  
Canceling MDPU 101

**AVAILABILITY**

Service under this rate is available for any purpose except resale, and where monthly demands are less than 10 kW. Where the measured demand of any customer equals or exceeds 10 kW for a total of six (6) consecutive months, the Department may, at its option, elect to serve the customer at the “C” rate.

**RATE**

4.39 cents per kWh for all kw-hrs per month

Customer Charge \$4.00 per month per meter.

**DISCOUNT**

10 percent discount, except on minimum bills, if payment is received 10 days from the date of receipt of bill. No discount allowed when arrears are due. No discount allowed on Purchased Power and Fuel Adjustment, or Customer Charge.

**INTEREST ON OVERDUE ACCOUNTS**

Bills are due and payable when presented. Accounts will be considered in arrears if payment is not received within thirty (30) days of bill date. Accounts in arrears shall be subject to interest charged at the rate of 1.5 percent per month.

**PURCHASED POWER AND FUEL ADJUSTMENT**

The Purchased Power and Fuel Adjustment as provided in MDPU Scheduled No. 112 is applicable to all kilowatt-hours on this rate.

IPSWICH MUNICIPAL LIGHT DEPARTMENT

**POWER RATE – C**

**ISSUED:** May 4, 2018  
**EFFECTIVE:** July 1, 2018

MDPU 108  
Canceling MDPU 102

**AVAILABILITY**

Service under this rate is available to all Commercial and Industrial customers whose monthly demand is 10 kW or more. All electricity furnished hereunder will be delivered through one service and one meter, unless for the convenience of the Department.

**DEMAND CHARGE**

\$44.48 per month for the first 10 kilowatts or less demand  
\$ 3.43 per month per kilowatt for the next 90 kilowatts  
\$ 2.93 per month per kilowatt in excess of 100 kilowatts

**ELECTRICITY CHARGE**

5.47 cents per kWh for the first 1,000 kWh per month  
3.67 cents per kWh for the next 4,000 kWh per month  
3.13 cents per kWh for the next 95,000 kWh per month  
2.63 cents per kWh for all over 100,000 kWh per month

Minimum Charge \$73.20 per month per meter

**DISCOUNT**

10 percent discount, except on minimum bills, if payment is received 10 days from the date of receipt of bill. No discount allowed when arrears are due. No discount allowed on Purchased Power and Fuel Adjustment.

**INTEREST ON OVERDUE ACCOUNTS**

Bills are due and payable when presented. Accounts will be considered in arrears if payment is not received within thirty (30) days of bill date. Accounts in arrears shall be subject to interest charges at the rate of 1.5 percent per month.

**PURCHASED POWER AND FUEL ADJUSTMENT**

The Purchased Power and Fuel Adjustment as provided in MDPU Schedule No.112 is applicable to all kilowatt-hours on this rate.

**DEMAND**

The billing demand for each month under ordinary load conditions shall be the highest 15 minute kW demand or 80 percent of the highest KVA demand, whichever is greater during the 15 minute period, but not less than 80 percent of the highest demand established as above during the preceding eleven months.

IPSWICH MUNICIPAL LIGHT DEPARTMENT

**POWER RATE – C**

**(continued)**

**ISSUED:** May 4, 2018

MDPU 108

**EFFECTIVE:** July 1, 2018

Canceling MDPU 102

**TRANSFORMERS**

Customers having a connected load of over 150 KVA will be required to furnish their own transformers. A discount of 15 cents per kW of demand per month will be allowed.

**METERING**

The Department may at its option meter at the utilization voltage or on the high tension side of the transformers. A discount of 2.5 percent of the bill will be allowed if the metering voltage is not less than 2,400 volts.

**CONTRACT TERM**

The Contract term shall be for not less than one year and longer periods if the Department considers the income derived from the sale of electricity insufficient to support such expenditures.

IPSWICH MUNICIPAL LIGHT DEPARTMENT

**COMMERCIAL HEATING RATE – CH**

**ISSUED:** May 4, 2018

MDPU 109

**EFFECTIVE:** July 1, 2018

Canceling MDPU 103

**AVAILABILITY**

Service under this rate is available for space heating, water heating and air conditioning in non-residential buildings only, where the entire energy requirements of the building are supplied by electricity. Service under this rate is metered separately. All other service supplied to the premises must be taken under the appropriate filed rate. The rate is not available for seasonal customers, temporary or auxiliary service.

**RATE**

4.39 cents per kWh for all kw-hrs per month

Customer Charge \$4.00 per month per meter.

**DISCOUNT**

10 percent discount, except on minimum bills, if payment is received 10 days from the date of receipt of bill. No discount allowed when arrears are due. No discount allowed on Purchased Power and Fuel Adjustment or Customer Charge.

**INTEREST ON OVERDUE ACCOUNTS**

Bills are due and payable when presented. Accounts will be considered in arrears if payment is not received within thirty (30) days of bill date. Accounts in arrears shall be subject to interest charges at the rate of 1.5 percent per month-

**PURCHASED POWER AND FUEL ADJUSTMENT**

The Purchased Power and Fuel Adjustment as provided in MDPU Schedule No. 112 is applicable to all kilowatt-hours on this rate.

IPSWICH MUNICIPAL LIGHT DEPARTMENT

**MUNICIPAL SERVICE RATE – M1**

**ISSUED:** May 4, 2018

MDPU 110

**EFFECTIVE:** July 1, 2018

Canceling MDPU 104

**AVAILABILITY**

Service under this Rate Schedule is available to the Town of Ipswich for any municipal purpose except street lighting.

**RATE**

4.39 cents per kWh per month for each kWh

Minimum Charge \$10.70 per month per meter

**DISCOUNT**

Charges in this schedule are net, no discount allowed.

**PURCHASED POWER AND FUEL ADJUSTMENT**

The Purchased Power and Fuel Adjustment as provided in MDPU Schedule No. 112 is applicable to all kilowatt-hours on this rate.



IPSWICH MUNICIPAL LIGHT DEPARTMENT

**MUNICIPAL SERVICE RATE – M2**

**ISSUED:** May 4, 2018

MDPU 111

**EFFECTIVE:** July 1, 2018

Canceling MDPU 105

**AVAILABILITY**

Service under this Rate Schedule is available to the Town of Ipswich Water and Sewage Pumping and Treatment Facilities.

**RATE**

4.39 cents per kWh per month for each kWh

Minimum Charge \$13.75 per month per meter

**DISCOUNT**

Charges in this schedule are net, no discount allowed.

**PURCHASED POWER AND FUEL ADJUSTMENT**

The Purchased Power and Fuel Adjustment as provided in MDPU Schedule No. 112 is applicable to all kilowatt-hours on this rate.

IPSWICH MUNICIPAL LIGHT DEPARTMENT

**RATE OL – OUTDOOR PRIVATE AREA LIGHTING**

**ISSUED:** May 4, 2018  
**EFFECTIVE:** July 1 2018

MDPU 113  
Canceling MDPU 87

**AVAILABILITY**

Available to customers for outdoor lighting service for private property and supplied from the Department's existing overhead conductors and fixtures mounted on the existing poles owned by the Department and, or on approved poles supplied and owned by the customer and located not more than 150 feet from the existing overhead conductors.

**RATE**

175 Watt Mercury Vapor Fixtures or LED Equivalent	\$ 8.22 per month
400 Watt Mercury Vapor Luminaries, Flood Light or LED Equivalent	\$ 14.31 per month
1,000 Watt Mercury Vapor Luminaries, Flood Light or LED Equivalent	\$ 30.05 per month

**GENERAL CONDITIONS**

1. The Department will furnish, own, install and maintain the 150 feet of secondary cable, lamps, luminaries, brackets, photo-electric controls and will supply the electricity to operate the lamps the same daily hours as the street lights or approximately 4,000 hours per year, from dusk to dawn.
2. Lamp replacement and necessary maintenance will be performed only during the regular working hours of the Department and upon notification by the customer to the Department of the need for such service. No reduction in billing shall be allowed for lamp outages.

All bills under this schedule are net and considered due and payable when presented.

IPSWICH MUNICIPAL LIGHT DEPARTMENT

**PURCHASED POWER AND FUEL ADJUSTMENT CLAUSE**

**ISSUED:** May 4, 2018  
**EFFECTIVE:** July 1, 2018

MDPU 112  
Canceling MDPU 98

**APPLICABLE**

To all kWh sold.

**MONTHLY RATE**

There shall be added to or subtracted from each monthly bill an amount equal to the total kWh billed during the month multiplied by the Purchased Power and Fuel Adjustment factor determined each month as follows:



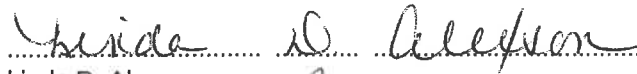
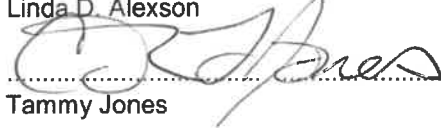
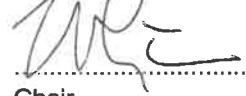
- (A) \* Purchased Power Cost including Transmission Cost for the month, plus
- (B) Generation Costs including but not limited to; Fuel & Lube Oil consumed, Labor, Materials used, and all other expenses incurred in Power Generation, plus
- (C) Conservation charges as budgeted divided by:
- (D) Estimated kWh to be sold during the month

The difference between the base cost and the monthly cost per kWh estimated to be sold will be applied in the monthly billing period. The power and fuel cost adjustment will be calculated as follows:

$$PPFA = \frac{(A) + (B) + (C)}{(D)}$$

\* A monthly adjustment will be made to reflect difference between estimated kWh's sold each month for the purpose of recovering or crediting any under collection or over collection of purchased power and fuel adjustment charges.

**THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY**

	.....	Town Manager
Anthony Marino	.....	
	.....	Manager of Electric Light
Jon W. Blair	.....	
	.....	) Selectmen or Members of the Municipal Light Board
Linda D. Alexson	.....	
	.....	
Tammy Jones	.....	
	.....	
Kerry L. Mackin	.....	)
	.....	) Chair
Nishan D. Mootafian	.....	
	.....	
William D. Whitmore	.....	
	.....	
Chair	.....	

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

..... SS ..... 20 .....

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

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