



The Commonwealth of Massachusetts

RETURN

OF THE

**MANSFIELD MUNICIPAL ELECTRIC
DEPARTMENT**

TOWN OF MANSFIELD

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: General Manager

Joseph Sollecito

Office Address: 125 High Street
Mansfield, MA 02048

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FOR GAS PLANTS ONLY:

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GENERAL INFORMATION

Page 3

- | | |
|---|---|
| 1. Name of town (or city) making this report. | Mansfield |
| 2. If the town (or city) has acquired a plant, | |
| Kind of plant, whether gas or electric. | Electric |
| Owner from whom purchased, if so acquired. | |
| Date of votes to acquire a plant in accordance with the provisions of chapter 164 of the General Laws.
June 25, 1903 | |
| Record of votes: First Vote - 4 Yes,, 1 No | |
| Date when town (or city) began to sell electricity, 1903 | |
| 3. Name and address of manager of municipal lighting: | |
| Joseph Sollecito | 317 Crane Ave South Taunton, MA 02780 |
| 4. Name and address of mayor or selectmen | |
| Steve Schoonveld | 21 Newton Street Mansfield, MA 02048 |
| Jess Aptowitz | 30 Fieldstone Drive Mansfield, MA 02048 |
| Neil Rhein | 11 Old North Trail Mansfield, MA 02048 |
| Michael A. Trowbridge | 4 Suzanne Lane Mansfield, MA 02048 |
| Frank Delvecchio | 38 Old North Trail Mansfield, MA 02048 |
| 5. Name and address of town (or city) treasurer: | |
| Jacqueline Boudreau | 285 East Main Street Apt 8 Norton, MA 02766 |
| 6. Name and address of town (or city) clerk: | |
| Marianne Staples | 80 Reservoir Street Mansfield, MA 02048 |
| 7. Names and addresses of members of municipal light board: | |
| Same as Selectmen | |
| 8. Total valuation of estates in town (or city) according to last state valuation (taxable) | \$3,863,301,202 |
| 9. Tax rate for all purposes during the year: | |
| Residential | \$15.22 |
| Commercial, Industrial and Personal Property | \$20.44 |
| 10. Amount of manager's salary: | Joseph Sollecito - Director \$162,885 |
| 11. Amount of manager's bond: | \$0 |
| 12. Amount of salary paid to members of municipal light board (each) | \$0 |

**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**

INCOME FROM PRIVATE CONSUMERS:		
1	FROM SALES OF GAS.....	
2	FROM SALE OF ELECTRICITY	25,370,722
3	FROM RATE STABILIZATION FUND.....	0
4	TOTAL	25,370,722
5	Expenses:	
6	For operation, maintenance and repairs.....	24,034,050
7	For interest on bonds, notes or scrip.....	
8	For depreciation fund	2,155,807
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	
12	For loss in preceding year.....	
13	TOTAL	26,189,857
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.....	818,120
19	Of electricity to be used for street lights.....	95,735
20	Total of the above items to be included in the tax levy.....	913,855
21		
22	New construction to be included in the tax levy.....	
23	Total amounts to be included in the tax levy.....	913,855

CUSTOMERS

Names of cities of towns in which the plant supplies GAS, with the number of customers' meters in each		Names of cities of towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each	
City or Town	Number of Customers' Meters, December 31	City or Town	Number of Customers' Meters, December 31.
	NONE	Mansfield	9,913
		TOTAL	9,913

APPROPRIATIONS SINCE BEGINNING OF YEAR

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

FOR CONSTRUCTION OR PURCHASE OF PLANT:

* At	meeting	19	, to be paid from {	\$	
* At	meeting	19	, to be paid from {	\$	

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

1. Street Lights.....	\$	95,735
2. Municipal Buildings.....		818,120
	\$	913,855

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

CHANGES IN THE PROPERTY

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

In electric property:

NONE

In gas property:

TOWN NOTES

(ISSUED ON ACCOUNT OF GAS OR ELECTRIC LIGHTING)

When Authorized	Date of Issue	Amount of Original Issue	Period of Payments		Interest		Amount of Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	

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.....						\$0.00
3	331 Structures and Improvements.....						\$0.00
4	332 Reservoirs, Dams and Waterways						\$0.00
5	333 Water wheels, Turbines and Generators.....						\$0.00
6	334 Accessory Electric Equipment.....						\$0.00
7	335 Miscellaneous Power Plant Equipment.....						\$0.00
8	336 Roads, Railroads and Bridges....						\$0.00
9	Total Hydraulic Production Plant	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	D. Other Production Plant						
11	340 Land and Land Rights.....						\$0.00
12	341 Structures and Improvements.....						\$0.00
13	342 Fuel Holders, Producers and Accessories.....						\$0.00
14	343 Prime Movers.....						\$0.00
15	344 Generators.....						\$0.00
16	345 Accessory Electric Equipment.....						\$0.00
17	346 Miscellaneous Power Plant Equipment.....						\$0.00
18	Total Other Production Plant	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	Total Production Plant	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20	3. Transmission Plant						
21	350 Land and Land Rights.....						\$0.00
22	351 Clearing Land and Rights of Way						\$0.00
23	352 Structures and Improvements.....						\$0.00
24	353 Station Equipment.....						\$0.00
25	354 Towers and Fixtures.....						\$0.00
26	355 Poles and Fixtures.....						\$0.00
27	356 Overhead Conductors and Devices...						\$0.00
28	357 Underground Conduits.....						\$0.00
29	358 Underground Conductors and Devices						\$0.00
30	359 Roads and Trails.....						\$0.00
31	Total Transmission Plant	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

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	313,205	0				313,205
3	361 Structures and Improvements	656,591	16,701				673,292
4	362 Station Equipment	15,434,215	63,784				15,497,998
5	363 Storage Battery Equipment	2,682,441	195,204				2,877,646
6	364 Poles, Towers and Fixtures	1,628,655	25,734	8,881			1,645,509
7	365 Overhead Conductors and Devices	7,860,595	303,895				8,164,490
8	366 Underground Conduits	5,876,329	251,377				6,127,706
9	367 Underground Conductors & Devices	9,481,904	103,913				9,585,817
10	368 Line Transformers	3,337,828	48,654	13,552			3,372,930
11	369 Services	1,108,350	16,303				1,124,654
12	370 Meters	1,485,986	47,615	16,037			1,517,565
13	371 Installation on Cust's Premises	0	0				0
14	372 Leased Prop. on Cust's Premises	223,841	1,713				225,554
15	373 Street Light and Signal Systems	950,392	126,758				1,077,150
16	Total Distribution Plant	51,040,333	1,201,653	38,469	0	0	52,203,517
17	5. GENERAL PLANT						
18	389 Land and Land rights	0	0				0
19	390 Structures and Improvements	1,475,730	424,912				1,900,642
20	391 Office Furniture and Equipment	454,112	510				454,622
21	392 Transportation Equipment	2,476,772	47,824				2,524,596
22	393 Stores Equipment	31,785	312				32,097
23	394 Tools, Shop and Garage Equipment	474,599	12,393				486,992
24	395 Laboratory Equipment	48,330	0				48,330
25	396 Power Operated Equipment	27,432	0				27,432
26	397 Communication Equipment	79,192	0				79,192
27	398 Miscellaneous Equipment	1,035,150	1,528,548				2,563,698
28	399 Other Tangible Property	245,310	69,507				314,817
29	Total General Plant	6,348,412	2,084,007	0	0	0	8,432,419
30	Total Electric Plant in Service	57,388,745	3,285,660	38,469	0	0	60,635,936
31	TOTAL COST OF PLANT						
32	Less Cost of Land, Land Rights, and Rights of Way						
33	Total Cost upon which depreciation is based						
34							313,205
							60,322,731

The above figures should show the original cost of 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.

Annual Report of Mansfield Municipal Electric Department				10
				Year Ended December 31 2018
COMPARATIVE BALANCE SHEET Assets and Other Debits				
Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End Year	Increase or (Decrease)
1	UTILITY PLANT			
2	101 Utility Plant -Electric.....	22,209,727	23,240,407	1,030,680
3	101 Utility Plant- Gas			
4	123 Investment in Associated Companies.....			
5	Total Utility Plant.....	22,209,727	23,240,407	1,030,680
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds.....			
13	126 Depreciation Fund (P. 14).....	4,300,066	3,332,375	(967,691)
14	128 Other Special Funds.....	1,711,164	1,738,309	27,145
15	Total Funds.....	6,011,230	5,070,684	(940,546)
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P. 14).....	15,070,818	14,738,081	(332,737)
18	132 Special Deposits.....	1,192,452	1,270,084	77,632
19	132 Working Funds.....			0
20	141 Notes and Receivables.....			
21	142 Customer Accounts Receivable.....	2,059,385	2,189,759	130,374
22	143 Other Accounts Receivable.....	685,622	3,197,733	2,512,111
23	146 Receivables from Municipality.....			
24	151 Materials and Supplies (P. 14).....	584,871	728,404	143,533
25				
26	165 Prepayments.....	2,321,868	2,300,992	(20,876)
27	174 Miscellaneous Current Assets	12,637	12,637	0
28	Total Current and Accrued Assets...	21,927,653	24,437,690	2,510,037
29	DEFERRED DEBITS			
30	181 Unamortized Debt Discount.....			
31	182 Extraordinary Property Debits.....			
32	185 Other Deferred Debits.....			
33	Total Deferred Debits.....			
34				
35	Total Assets and Other Debits.....	50,148,610	52,748,781	2,600,171

COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End Year	Increase or (Decrease)
1	APPROPRIATIONS			
2	201 Appropriations for Construction.....			
3	SURPLUS			
4	205 Sinking Fund Reserves.....			
5	206 Loans Repayment.....			
6	207 Appropriations for Construction Repayment..	0	0	0
7	208 Unappropriated Earned Surplus (P. 12).....	44,454,980	46,110,842	1,655,862
8	Total Surplus.....	44,454,980	46,110,842	1,655,862
9	LONG TERM DEBT			
10	221 Bonds (P. 6).....			
11	231 Notes Payable (P. 7).....			
12	Total Bonds and Notes.....			
13	CURRENT AND ACCRUED LIABILITIES			
14	232 Accounts Payable.....	1,941,135	3,113,203	1,172,068
15	234 Payables to Municipality.....			0
16	235 Customer Deposits.....	1,175,380	1,238,961	63,581
17	236 Taxes Accrued.....	44,453	51,047	6,594
18	237 Interest Accrued.....			0
19	242 Miscellaneous Current and Accrued Liabilities	518,314	159,540	(358,774)
20	Total Current and Accrued Liabilities...	3,679,282	4,562,751	883,469
21	DEFERRED CREDITS			
22	251 Unamortized Premium on Debt.....			
23	252 Customer Advance for Construction.....			
24	253 Other Deferred Credits.....			
25	Total Deferred Credits			
26	RESERVES			
27	260 Reserves for Uncollectable Accounts.....	303,184	336,879	33,695
28	261 Property Insurance Reserve.....			0
29	262 Injuries and Damages Reserves.....			0
30	263 Pensions and Benefits.....			0
31	265 Miscellaneous Operating Reserves.....	1,711,164	1,738,309	27,145
32	Total Reserves.....	2,014,348	2,075,188	60,840
33	CONTRIBUTIONS IN AID OF CONSTRUCTION			
34	271 Contributions in Aid of Construction.....			
35	Total Liabilities and Other Credits	50,148,610	52,748,781	2,600,171

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.

STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Current Year	Increase or (Decrease) from Preceding Year
1	OPERATING INCOME		
2	400 Operating Revenue (P. 37 and P. 43)	29,027,094	2,682,223
3	Operating Expenses:		
4	401 Operation Expense (P.42).....	22,915,385	2,538,656
5	402 Maintenance Expense (P. 42).....	1,118,665	3,318
6	403 Depreciation Expense	2,155,807	(326,365)
7	407 Amortization of Property Losses.....		
8			
9	408 Taxes (P. 48).....		
10	Total Operating Expenses.....	26,189,857	2,215,609
11	Operating Income.....	2,837,237	466,614
12	414 Other Utility Operating Income (P.50).....		
13			
14	Total Operating Income.....	2,837,237	466,614
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	92,481	138,658
17	419 Interest Income.....	69,579	16,284
18	421 Miscellaneous Income.....	31,953	(14,913)
19	Total Other Income.....	194,013	140,029
20	Total Income.....	3,031,250	606,643
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Amortization.....		
23	426 Other Income Deductions.....	1,530,944	67,164
24	Total Income Deductions.....	1,530,944	67,164
25	Income before Interest Charges.....	1,500,304	539,477
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes.....		
28	428 Amortization of Debt Discount and Expense.....		
29	429 Amortization of Premium on Debt.....		
30	431 Other Interest Expense.....	16,666	12,330
31	432 Interest Charged to Construction-Credit.....		
32	Total Interest Charges	16,666	12,330
33	Net Income.....	1,483,638	527,147

EARNED SURPLUS

Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of Period).....		44,454,980
35			
36			
37	433 Balance transferred from Income.....		1,483,638
38	434 Miscellaneous Credits to Surplus.....		878,613
39	435 Miscellaneous Debits to Surplus.....	26,440	
40	436 Appropriations of Surplus (P.21).....	679,949	
41	437 Surplus Applied to Depreciation.....		
42	208 Unappropriated Earned Surplus (at end of period).....	46,110,842	
43			
44	TOTALS	46,817,231	46,817,231

CASH BALANCES AT END OF YEAR (Account 131)		
Line No.	Items (a)	Amount (b)
1	Operation Fund.....	14,737,756
2	Interest Fund.....	
3	Bond Fund.....	
4	Construction Fund.....	
5	Petty Cash Fund	325
6	Other Post Employment Benefits Fund	
7		
8		
9		
10		
11		
12	TOTAL	14,738,081

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

Line No.	Account (a)	Amount End of Year	
		Electric (b)	Gas (c)
13	Fuel (Account 151) (See Schedule, Page 25).....		
14	Fuel Stock Expenses (Account 152).....		
15	Residuals (Account 153).....		
16	Plant Materials and Operating Supplies (Account 154).....	693,917	
17	Merchandise (Account 155).....		
18	Other Materials and Supplies (Account 156).....		
19	Nuclear Fuel Assemblies and Components - In Reactor (Acct 157)		
20	Nuclear Fuel Assemblies and Components - Stock Acct (Acct 158)		
21	Nuclear Byproduct Materials (Account 159).....		
22	Stores Expense (Account 163).....	34,488	
23	Total per Balance Sheet	728,404	

Depreciation Fund Account (Account 126)

Line No.	(a)	Amount (b)
24	DEBITS	
25	Balance of Account at Beginning of Year.....	4,300,066
26	Income During Year from Balance on Deposit.....	57,643
27	Amount Transferred from Income.....	2,103,441
28	TOTAL	6,461,150
29		
30	CREDITS	
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.)	3,128,775
32	Amounts Expended for Renewals.....	
33	Adjustment	
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year.....	3,332,375
40	TOTAL	3,332,375

UTILITY PLANT - ELECTRIC (continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	c. Hydraulic Production Plant						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators.....						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads and Bridges.....						
9	Total Hydraulic Production Plant						\$0.00
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						\$0.00
19	Total Production Plant						\$0.00
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.....						
27	356 Overhead Conductors and Device..						
28	357 Underground Conduits.....						
29	358 Underground Conductors and Devices.....						
30	359 Roads and Trails.....						
31	Total Transmission Plant						\$0.00

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.....	313,205	0	0			313,205
3	361 Structures and Improvements.....	74,230	16,701	26,258			64,672
4	362 Station Equipment.....	5,709,543	63,784	616,782			5,156,545
5	363 Storage Battery Equipment.....	1,808,596	195,204	106,004			1,897,797
6	364 Poles and Fixtures.....	325,680	25,734	64,098			287,316
7	365 Overhead Conductors and Devices...	3,640,892	303,895	318,875			3,625,912
8	366 Underground Conduits.....	2,757,744	251,377	239,658			2,769,462
9	367 Underground Conductors and Devices	3,526,050	103,913	365,105			3,264,858
10	368 Line Transformers.....	163,236	48,654	6,582			205,308
11	369 Services.....	62,242	16,303	51,790			26,754
12	370 Meters.....	723,289	47,615	57,637			713,266
13	371 Installation on Cust's Premises....	0	0	0			0
14	372 Leased Prop. on Cust's Premises....	13,440	1,713	3,991			11,162
15	373 Street Light and Signal Systems....	111,451	126,758	(65,808)			304,017
16	Total Distribution Plant	19,229,597	1,201,653	1,790,973	0	0	18,640,276
17	5. GENERAL PLANT						
18	389 Land and Land Rights.....	0					0
19	390 Structures and Improvements.....	329,950	424,912	58,905			695,958
20	391 Office Furniture and Equipment.....	13,890	510	14,472			(72)
21	392 Transportation Equipment.....	1,268,059	47,824	100,747			1,215,136
22	393 Stores Equipment.....	9,698	312	1,271			8,738
23	394 Tools, Shop and Garage Equipment...	146,536	12,393	19,106			139,823
24	395 Laboratory Equipment.....	27,301	0	1,331			25,971
25	396 Power Operated Equipment.....	0	0	0			0
26	397 Communication Equipment.....	(670)	0	(670)			0
27	398 Miscellaneous Equipment.....	964,327	1,528,549	95,698			2,397,178
28	399 Other Tangible Property.....	57,804	69,507	9,912			117,399
29	Total General Plant	2,816,895	2,084,007	300,773	0	0	4,600,130
30	Total Electric Plant in Service	22,046,494	3,285,660	2,091,746	0	0	23,240,407
31	104 Utility Plant leased to Others.....						
32	105 Property Held for Future Use.....						
33	107 Construction Work in Progress.....						
108	Accumulated Depreciation			0		(163,234)	(0)
34	Total Utility Electric Plant	22,209,727	3,285,660	2,091,746	0	(163,234)	23,240,407

Annual Report of Mansfield Municipal Electric Department		18 Year Ended December 31 2018				
PRODUCTION FUEL AND OIL STOCKS (Included in Account 151) (Except Nuclear Materials)						
1. Report below the information called for concerning production fuel and oil stocks. 2. Show quantities in tons of 2,000 lbs., gal., or Mcf., whichever unit of quantity is applicable. 3. Each kind of coal or oil should be shown separately. 4. Show gas and electric fuels separately by specific use.						
Line No.	Item (a)	Total Cost (b)	Kinds of Fuel and Oil			
			Quantity (c)	Cost (d)	Quantity (e)	Cost (f)
1	On Hand Beginning of year	0.00				
2	Received During Year	0.00				
3	TOTAL	0.00				
4	Used During Year (Note A)	0.00				
5						
6						
7						
8						
9						
10						
11	Sold or Transferred					
12	TOTAL DISPOSED OF	0.00				
13	BALANCE END OF YEAR	0.00				
				Kinds of Fuel and Oil -- Continued		
Line No.	Item (g)		Quantity (h)	Cost (i)	Quantity (j)	Cost (k)
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						

Annual Report of Mansfield		21
		Year Ended December 31, 2018
MISCELLANEOUS NON-OPERATING INCOME (Account 421)		
Line No.	Item (a)	Amount (b)
1	Misc. Non-operating Revenue	35,755
2	Reclassification of Stores Expenses	(3,802)
3		
4		
5		
6	TOTAL	31,953
OTHER INCOME DEDUCTIONS (Account 426)		
Line No.	Item (a)	Amount (b)
7	Donations	23,040
8	Energy Rebates	34,775
9	Discounts Allowed	1,473,129
10		
11		
12		
13		
14	TOTAL	1,530,944
MISCELLANEOUS CREDITS TO SURPLUS (Account 434)		
Line No.	Item (a)	Amount (b)
15	Flush of Funds Credit from MMWEC	878,619
16		
17		
18		
19		
20		
21		
22		
23	TOTAL	878,619
MISCELLANEOUS DEBITS TO SURPLUS (Account 435)		
Line No.	Item (a)	Amount (b)
24	Retirement of Plant Equipment	26,440
25		
26		
27		
28		
29		
30		
31		
32	TOTAL	26,440
APPROPRIATIONS OF SURPLUS (Account 436)		
Line No.	Item (a)	Amount (b)
33	Town of Mansfield - Payment in Lieu of Taxes	679,949
34		
35		
36		
37		
38		
39		
40	TOTAL	679,949

MUNICIPAL REVENUES (Accounts 482,444)						
(K.W.H. Sold under the Provision of Chapter 269, Acts of 1927)						
Line No.	Acct No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue per M.C.F. [\$0.0000] (d)	
1						
2						
3						
4		TOTALS				
Line No.		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue per K.W.H. [cents] [\$0.0000] (d)	
5						
6	444	Municipal Buildings	8,474,241	996,772	0.1176	
7						
8		TOTALS	8,474,241	996,772	0.1176	
9	444	Street Lighting	991,646	112,651	0.1136	
10						
11		TOTALS	991,646	112,651	0.1136	
12						
13						
14						
15						
16						
17						
18						
19		TOTALS	9,465,887	1,109,423	0.1172	
PURCHASED POWER (Account 555)						
Line No.		Names of Utilities from which Electric Energy is Purchased (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Cost per K.W.H. cents [0.0000] (e)
20						
21						
22						
23						
24						
25						
26						
27						
28						
29		TOTALS				
SALES FOR RESALE (Account 447)						
Line No.		Names of Utilities to which Electric Energy is Sold (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (c)	Revenues per K.W.H. [cents] [0.0000] (e)
30						
31						
32						
33						
34						
35						
36						
37						
38						
39		TOTALS				

38

Annual Report of Mansfield Municipal Electric Department

Year Ended December 31 2018

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 and unbilled sales may be reported separately in total.

Line No.	Account No.	Schedule (a)	K.W.H. (b)	Revenue (c)	Average Revenue per K.W.H. (cents) *(0.0000) (d)	Number of Customers (per Bills Rendered)	
						July 31 (e)	December 31 (f)
1	440	Residential	82,849,690	10,157,133	0.1226	8,829	8,844
2							
3							
4							
5	442	Commercial	11,500,978	1,310,817	0.1140	787	770
6		Industrial	105,706,194	13,902,772	0.1315	241	191
7							
8							
9							
10	444	Municipal Building	8,474,241	996,772	0.1176	83	83
11		Street Lighting	991,646	112,651	0.1136	26	25
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
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31							
32							
33							
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35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48	TOTAL SALES TO UTIMATE CONSUMERS						
49	(Page 37 Line 11)		209,522,749	26,480,145	0.1264	9,966	9,913

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Year Ended December 31 2018

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

(continued on page 40)

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	HYDRAULIC POWER GENERATION - CONTINUED		
2	Maintenance:		
3	541 Maintenance Supervision and Engineering.....		
4	542 Maintenance of Structures.....		
5	543 Maintenance 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 Operation 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 Structure.....		
21	553 Maintenance of Generating 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.....	15,837,626	2,368,714
27	556 System Control and Load Dispatching.....		
28	557 Other Expenses.....		
29	Total Other Power Supply Expenses	15,837,626	2,368,714
30	Total Power Production Expenses	15,837,626	2,368,714
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.....	4,390,116	(10,384)
39	566 Miscellaneous Transmission Expenses.....		
40	567 Rents.....		
41	Total Operation	4,390,116	(10,384)
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	4,390,116	(10,384)

Annual Report of Mansfield Municipal Electric Department		Year Ended December 31 2018	
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.....	149,171	(1,056)
4	581 Load Dispatching.....	220,130	12,492
5	582 Station Expenses.....	252,893	26,622
6	583 Overhead Line Expenses.....	41,172	19,648
7	584 Underground Line Expenses.....	7,041	(1,873)
8	585 Street Lighting and Signal System Expenses.....	0	0
9	586 Meter Expenses.....	44,284	(727)
10	587 Customer Installations Expenses.....	8,688	(1,366)
11	588 Miscellaneous Distribution Expenses.....	0	0
12	589 Rents.....	0	0
13	Total Operation	723,380	53,742
14	Maintenance:		
15	590 Maintenance Supervision and Engineering.....	0	0
16	591 Maintenance of Structures.....	87,125	4,624
17	592 Maintenance of Station Equipment.....	0	0
18	593 Maintenance of Overhead Lines.....	851,823	1,421
19	594 Maintenance of Underground Lines.....	9,329	5,369
20	595 Maintenance of Line Transformers.....	4,369	(1,768)
21	596 Maintenance of Street Lighting and Signal Systems....	42,483	(24,044)
22	597 Maintenance of Meters.....	0	0
23	598 Maintenance of Miscellaneous Distribution Plant.....	844	(132)
24	Total Maintenance	995,973	(14,530)
25	Total Distribution Expenses	1,719,353	39,212
26	CUSTOMER ACCOUNTS EXPENSES		
27	Operation:		
28	901 Supervision.....	0	0
29	902 Meter Reading Expenses.....	200,460	3,420
30	903 Customer Records and Collection Expenses.....	686,115	34,781
31	904 Uncollectable Accounts.....	80,000	1
32	905 Miscellaneous Customer Accounts Expenses.....	23,187	(4,663)
33	Total Customer Accounts Expenses	989,762	33,539
34	SALES EXPENSES		
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 Expense.....	0	0
40	Total Sales Expenses	0	0
41	ADMINISTRATIVE AND GENERAL EXPENSES		
42	Operation:		
43	920 Administrative and General Salaries.....	329,873	1,731
44	921 Office Supplies and Expenses.....	157,119	44,940
45	922 Administrative Expenses Transferred - Cr.....	0	0
46	923 Outside Services Employed.....	247,974	8,422
47	924 Property Insurance.....	46,052	16,112
48	925 Injuries and Damages.....	23,759	23,759
49	926 Employees Pensions and Benefits.....	(2,436)	6,014
50	928 Regulatory Commission Expenses.....	0	0
51	929 Duplicate Charges - Cr.....	0	0
52	930 Miscellaneous General Expenses.....	158,561	(11,930)
53	931 Rents.....	13,600	4,000
54	Total Operation	974,501	93,046

ELECTRIC OPERATION AND MAINTENANCE EXPENSES -- Continued

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	ADMINISTRATIVE EXPENSES		
2	Maintenance:		
3	932 Maintenance of General Plant.....		
4	933 Transportation expense.....	122,692	17,549
5	Total Maintenance	122,692	17,549
6	Total Administrative and General Expenses	1,097,193	110,895
7	Total Electric Operation and Maintenance Expenses	24,034,050	2,541,974

SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	OPERATION (b)	MAINTENANCE (c)	TOTAL (d)
8	Power Production Expenses			
9	Electric Generation			
10	Steam Power.....			
11	Nuclear Power.....			
12	Hydraulic Power.....			
13	Other Power.....			
14	Other Power Supply Expenses.....	15,837,626		15,837,626
15	Total Power Production Expenses	15,837,626		15,837,626
16	Transmission Expenses.....	4,390,116		4,390,116
17	Distribution Expenses.....	723,380	995,973	1,719,353
18	Customer Accounts Expenses.....	989,762		989,762
19	Sales Expenses.....			
20	Administrative and General Expenses.....	974,501	122,692	1,097,193
21	Power Production Expenses			
22	Total Electric Operation and Maintenance Expenses	22,915,385	1,118,665	24,034,050

- 23 Ratio of Operating Expenses to Operating Revenues (carry out decimal two places, (e.g. 0.00%) **90.23%**
 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).....
- 24 Total salaries and wages of electric department for year, including amounts charged to oper-
 ating expenses, construction and other accounts..... **2,312,243**
- 25 Total number of employees of electric department at end of year including administrative,
 operating, maintenance and other employees (including part time employees) **21**

Annual Report of Mansfield Municipal Electric Department

Year Ended December 31 2018

TAXES CHARGED DURING 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 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 readily be 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 appropriate balance sheet plant account or subaccount.
5. For any tax which it was necessary to apportion to more than one utility department or account, state in a footnote the basis or 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.

Distribution of Taxes Charged (omit cents)

(Show utility department where applicable and account charged)

Line No.	Kind of Tax (a)	Total Taxes Charged During Year (omit cents) (b)	Distribution of Taxes Charged (omit cents)					
			Electric (Acct. 408, 409) (c)	Gas (Acct. 408, 409) (d)	(e)	(f)	(g)	(h)
1	NONE							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23	TOTAL							

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 Revenue (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1	NONE				
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
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36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51	TOTALS	\$0.00	\$0.00	\$0.00	\$0.00

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

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

Line No.	Item (a)	Electric Department (c)	Gas Department (d)	Other Utility Department (d)	Total (e)
1	Revenues:				
2	Merchandising sales, less discounts,				
3	allowances and returns.....				
4	Contract Work.....	92,481			92,481
5	Commissions.....				
6	Other (List according to major classes)				
7					
8					
9					
10	Total Revenues.....	92,481	\$0.00	\$0.00	92,481
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to Major				
15	classes of cost).....				
16	Jobbing/Contract Costs				
17	Labor				
18	Materials				
19					
20					
21					
22					
23					
24					
25					
26	Sales expenses.....				
27	Customer accounts expenses.....				
28	Administrative and general expenses.....				
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50	TOTAL COSTS AND EXPENSES	0	\$0.00	\$0.00	0
51	Net Profit (or Loss)	92,481	\$0.00	\$0.00	92,481

SALES FOR RESALE (Account 447)

1. Report sales during year to other electric utilities and to cities or other public authorities for distribution to ultimate consumers.

2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Municipalities, (4) R.E.A. Cooperatives, and (5) other public authorities. For each sale designate statistical classification in column (b), thus: firm power, FP; dump or surplus power, DP; other G,

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

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

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

Line No.	Sales to	Statistical Classification	Export Across State Lines	Point of Delivery	Substation	Kw or Kva of Demand (Specify which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

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 sale may be grouped.

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Revenue (Omit Cents)				Revenue per Kwh (cents) [0.0000] (p)	Line No.
			Demand Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								13
								14
								15
								16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30
								31
								32
								33
								34
TOTALS		0	\$0.00	\$0.00	\$0.00	\$0.00	0.0000	35

PURCHASED POWER (Account 555)

1. Report power purchased for resale during the year. Exclude from this schedule and report on page 56 particulars concerning interchange power transactions during the year.

2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A. Cooperatives, and (7) Other Public

Authorities. For each purchase designate statistical classification in column (b), thus: firm power, FP; dump or surplus power DP; other, O, and place an "X" in column (c) if purchase involves import across a state line.

3. Report separately firm, dump, and other power purchased from the same company. Describe the nature of any purchases classified as Other Power, column (b).

Line No.	Purchased From	Statistical Classification	Import Across State Lines	Point of Receipt	Substation	Kw or Kva Demand (Specify Which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	New York Power Authority	FP	X	GILBERT ST.	SS	1,354		
2	Stonybrook Peaking	O		GILBERT ST.	SS	12,274		
3	Stonybrook Intermediate	O		GILBERT ST.	SS	17,476		
4	Nuclear Mix 1 (Seabrook)	O	X	GILBERT ST.	SS	110		
5	Nuclear Mix 1 (Millstone)	O	X	GILBERT ST.	SS	1,132		
6	Nuclear Project 3 (Millstone)	O	X	GILBERT ST.	SS	673		
7	Nuclear Project 4 (Seabrook)	O	X	GILBERT ST.	SS	2,852		
8	Nuclear Project 5 (Seabrook)	O	X	GILBERT ST.	SS	258		
9	Nuclear Project 6 (Seabrook)	O	X	GILBERT ST.	SS	5,861		
10	Shell Energy North America	O	X	GILBERT ST.	SS			
11	Transmission Charges							
12	Hydro Quebec	O	X	GILBERT ST.	SS			
13	ISO OATT			GILBERT ST.	SS			
14	System Power	DP						
15	Hancock Wind	O	X			3,129		
16	Branch Street Solar Partners	O						
17								
18	Total					45,119		
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								

PURCHASED POWER (Account 555) - Continued

(except interchange power)

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

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

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

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

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

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Cost of Energy (Omit Cents)				Cents per KWH (cents) [0.0000] (p)	Line No.
			Capacity Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
60 MINUTES	115 kv	8,922,991	65,600	46,561	157,706	269,867	\$ 0.0302	1
60 MINUTES	115 kv	477,845	231,615	92,948	10,802	335,365	\$ 0.7018	2
60 MINUTES	115 kv	5,272,692	683,114	421,478	17,169	1,121,761	\$ 0.2127	3
60 MINUTES	115 kv	1,017,362	26,195	5,903	64	32,163	\$ 0.0316	4
60 MINUTES	115 kv	10,689,274	345,624	68,178	7,242	421,045	\$ 0.0394	5
60 MINUTES	115 kv	6,281,405	205,874	40,065	4,372	250,311	\$ 0.0398	6
60 MINUTES	115 kv	24,953,567	670,793	144,790	1,581	817,164	\$ 0.0327	7
60 MINUTES	115 kv	2,256,235	61,857	13,092	143	75,092	\$ 0.0333	8
60 MINUTES	115 kv	51,280,950	1,754,293	297,551	3,250	2,055,094	\$ 0.0401	9
60 MINUTES	115 kv	41,179,200	1,966,619			1,966,619	\$ 0.0478	10
								11
								12
60 MINUTES	115 kv				97,612	97,612	N/A	13
60 MINUTES	115 kv				4,784,275	4,784,275	N/A	14
60 MINUTES	115 kv	8,642,010	(2,176)	413,849	162	411,835	\$ 0.0479	15
60 MINUTES	115 kv	2,143,612	138,517			138,517	\$ 0.0646	16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30
								31
								32
								33
								34
TOTALS		163,117,143	6,147,925	1,544,415	5,084,378	12,776,720		35

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)	Interchange State Across Lines (b)	Point of Interchange (c)	Voltage at Which Interchanged (d)	Kilowatt-hours			Amount of Settlement (h)
					Received (e)	Delivered (f)	Net Difference (g)	
1	NEPEX				220,822,820	166,283,080	54,539,740	7,451,022
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12				TOTALS	220,822,820	166,283,080	54,539,740	7,451,022

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)	Amount (k)
13	NEPEX		7,122,382
14		INTERCHANGE EXPENSE	328,640
15		NEPOOL EXPENSE	
16			
17			
18			
19			
20			
21		TOTALS	7,451,022

ELECTRIC ENERGY ACCOUNT

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

Line No.	Item (a)	Kilowatt-hours (b)
1	SOURCES OF ENERGY	
2	Generation (excluding station use):	
3	Steam..... Gas Turbine Combined Cycle	
4	Nuclear.....	
5	Hydro.....	
6	Other..... Diesel	
7	Total generation.....	0
8	Purchases.....	160,856,555
9	{ In (gross) 220,822,820	
10	Interchanges..... { Out (gross) 166,283,080	
11	{ Net (Kwh).....	54,539,740
12	{ Received.....	
13	Transmission for/by others (Wh..... { Delivered.....	
14	{ Net (kwh).....	215,396,295
15	TOTAL	
16	DISPOSITION OF ENERGY	
17	Sales to ultimate consumers (including interdepartmental sales).....	209,522,749
18	Sales for resale.....	
19	Energy furnished without charge	
20	Energy used by the company (excluding station use).....	
21	Electric department only.....	
22	Energy losses:	
23	Transmission and conversion losses.....	0
24	Distribution losses..... 5,873,546	
25	Unaccounted for losses.....	
26	Total energy losses.....	5,873,546
27	Energy losses as percent of total on line 15..... 2.73%	
28	TOTAL	215,396,295

MONTHLY PEAKS AND OUTPUT

- Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-hours) for the combined sources of electric energy of respondent.
- Monthly peak col. (b) should be respondent's maximum Kw load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange minus temporary deliveries (not interchange) or emergency power to another system. Monthly peak including such emergency deliveries should be shown in a footnote with a brief explanation as to the nature of the emergency.
- State type of monthly peak reading (instantaneous 15, 30, or 60 minute integrated.)
- 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.
- If the respondent has two or more power systems and physically connected, the information called for below should be furnished for each system.

Town of Mansfield

Monthly Peak

Line No.	Month (a)	Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	Monthly Output (kwh) See Instr. 4) (g)
29	January	37,859	Tue	2	19:00	60 min.	19,613,454
30	February	32,183	Wed	7	18:00	60 min.	15,759,620
31	March	30,804	Wed	7	19:00	60 min.	17,291,694
32	April	29,153	Tue	3	20:00	60 min.	15,436,194
33	May	33,706	Tue	29	19:00	60 min.	16,247,853
34	June	40,780	Fri	29	15:00	60 min.	17,637,138
35	July	47,552	Tue	3	15:00	60 min.	22,116,871
36	August	50,061	Wed	29	14:00	60 min.	23,047,393
37	September	48,124	Thu	6	17:00	60 min.	17,734,778
38	October	31,702	Wed	10	16:00	60 min.	16,050,863
39	November	30,582	Thu	15	20:00	60 min.	16,395,262
40	December	33,697	Tue	18	20:00	60 min.	18,065,175
41						TOTAL	215,396,295

GENERATING STATION STATISTICS (Large Stations)
(Except Nuclear, See Instruction 10)

1. Large stations for the purpose of this schedule are steam and hydro stations of 2,500 Hw* or more of installed capacity and other stations of 500 Kw* or more of installed capacity (name plate ratings). (*10,000 Kw and 2,500 Kw, respectively, if annual electric operating revenues of respondent are \$25,000,000 or more.)

2. If any plant is leased, operated under a license from the Federal Power Commission, or operated as a joint facility, indicate such facts by the use of asterisks and footnotes.

3. Specify if total plant capacity is reported in kva instead of kilowatts as called for on line 5.

4. If peak demand for 60 minutes is not available, give that which is available, specifying period.

5. If a group of employees attends more than one generating station, report on line 11 the approximate average number of employees assignable to each station.

6. If gas is used and purchased on a therm basis, the B.t.u. content of the gas should be given and the quantity of fuel consumed converted to M cu. ft.

7. Quantities of fuel consumed and the average cost per unit of fuel consumed should be consistent with charges to expense 501 and

Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)
1	Kind of plant (steam, hydro, int. com., gas turbine)			
2	Type of plant construction (conventional, outdoor boiler, full outdoor, etc.)			
3	Year originally constructed			
4	Year last unit was installed			
5	Total installed capacity (maximum generator name plate ratings in kw)			
6	Net peak demand on plant-kilowatts (60 min.)			
7	Plant hours connected to load			
8	Net continuous plant capability, kilowatts:			
9	(a) When not limited by condenser water			
10	(b) When limited by condenser water			
11	Average number of employees			
12	Net generation, exclusive of station use			
13	Cost of plant (omit cents):			
14	Land and land rights			
15	Structures and improvements			
16	Reservoirs, dams, and waterways			
17	Equipment costs			
18	Roads, railroads, and bridges			
19	Total cost	\$0	\$0	\$0
20	Cost per kw of installed capacity	N/A	N/A	N/A
21	Production expenses:			
22	Operation supervision and engineering			
23	Station labor			
24	Fuel			
25	Supplies and expenses, including water			
26	Maintenance			
27	Rents			
28	Steam from other sources			
29	Steam transferred -- Credit			
30	Total production expenses	\$0.00	\$0.00	\$0.00
31	Expenses per net Kwh (5 places)	0.0000	N/A	N/A
32	Fuel: Kind			
33	Unit: (Coal-tons of 2,000 lb.) (Oil-barrels of 42 gals.) (Gas-M cu. ft.) (Nuclear, indicate)			
34	Quantity (units) of fuel consumed			
35	Average heat content of fuel (B.t.u. per lb. of coal, per gal. of oil, or per cu. ft. of gas)			
36	Average cost of fuel per unit, del. f.o.b. plant			
37	Average cost of fuel per unit consumed			
38	Average cost of fuel consumed per million B.t.u.			
39	Average cost of fuel consumed per kwh net gen.			
40	Average B.t.u. per kwh net generation			
41				
42				

547 as shown on Line 24

8. The items under cost of plant and production expenses represents accounts or combinations of accounts prescribed by the Uniform System of Accounts. Production expenses, however, do not include Purchased Power, System Control and Load Dispatching, and Other Expenses classified as "Other Power Supply Expenses."

operations with a conventional steam unit, the gas turbine should be included with the steam station.

10. If the respondent operates a nuclear power generating station submit: (a) a brief explanatory statement concerning accounting for the cost of power generated including any attribution of excess costs to research and development expenses; (b) a brief explanation of the fuel accounting specifying the accounting methods and types of cost units used with respect to the various components of the fuel cost, and (c) such additional information as may be informative concerning the type of plant, kind of fuel used, and other physical and operating characteristics of the plant.

Plant (e)	Plant (f)	Plant (g)	Plant (h)	Plant (i)	Plant (j)	Line No.
NONE						1
						2
						3
						4
						5
						6
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						9
						10
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						30
						31
						32
						33
						34
						35
						36
						37
						38
						40
						41
						42

STEAM GENERATING STATIONS

1. Report the information called for concerning generating stations and equipment at end of year.
2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of

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

Line No.	Name of Station (a)	Location of Station (b)	Number and Year Installed (c)	Boilers			
				Kind of Fuel and Method of Firing (d)	Rated Pressure in lbs. (e)	Rated Steam Temperature* (f)	Rated Max. Continuous M lbs. Steam per Hour (g)
1	NONE						
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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33							
34							
35							
36							
37							

Note Reference:

* Indicates reheat boilers thusly, 1050/1000.

STEAM GENERATING STATIONS -- Continued

expenses or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

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

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

Turbine-Generators*

Year Installed (h)	Type (l)	Steam Pressure at Throttle p.s.i.g. (j)	R.P.M. (k)	Name Plate Rating in Kilowatts		Hydrogen Pressure**		Power Factor (p)	Voltage K.v.++ (q)	Station Capacity Maximum Name Plate Rating*+ (r)	Line No.
				At Minimum Hydrogen Pressure (l)	At Maximum Hydrogen Pressure (m)	Min. (n)	Max. (o)				
				NONE							1
											2
											3
											4
											5
											6
											7
											8
											9
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											35
											36
TOTALS											37

Note references:

*Report cross-compound turbine-generator units on two lines -- H.P. section and L.P. section.

+ Indicate tandem-compound (T.C.); cross-compound (C.C.); all single casing (S.C.); topping unit (T), and noncondensing (N.C.). Show back pressures.

** Designate air cooled generators.

++ If other than 3 phase, 60 cycle, indicate other characteristics.

*+ Should agree with column (m).

HYDROELECTRIC GENERATING STATIONS

1. Report the information called for concerning generating stations and equipment at end of year. Show associated prime movers and generators on the same line.

2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.

3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such

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

Line No.	Name of Station (a)	Location (b)	Name of Stream (c)	Water Wheels			
				Attended or Unattended (d)	Type of Unit* (e)	Year Installed (f)	Gross Static Head with Pond Full (g)
1	*** NONE ***						
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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34							
35							
36							
37							

* Horizontal or vertical. Also indicate type of runner -- Francis (F), fixed propeller (FP), automatically adjustable propeller (AP), Impulse (I).

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

Specify whether lessee is an associated company.

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

Water Wheels -- Continued			Generators						Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
Design Head (h)	R.P.M. (i)	Maximum hp. Capacity of Unit at Design Head (j)	Year Installed (k)	Voltage (l)	Phase (m)	Fre- quency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Station (p)		
		*** NONE ***								1
										2
										3
										4
										5
										6
										7
										8
										9
										10
										11
										12
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										33
										34
										35
										36
										37
TOTALS										38
										39

(except nuclear stations)

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

generating station, other than a leased station, or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent owner-

of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent owner-

--

Specify whether lessee is an associated company.

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

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

5. If peak demand for 60 minutes is not available, give that which is available, specifying period.
6. If any plant is equipped with combustions of steam, hydro, internal combustion engine or gas turbine equipment, each should be reported as a separate plant. However, if the exhaust heat from the gas turbine is utilized in a steam turbine regenerative feed water cycle, report as one plant.

[illegible]

TRANSMISSION LINE STATISTICS

Report information concerning transmission lines as indicated below.

Line No.	Designation		Operating Voltage (c)	Type of Supporting Structure (d)	Length (Pole Miles)		Number of Circuits (g)	Size of Conductor and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1					NONE	NONE		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
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14								
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36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47	TOTALS				0.00		0	

* Where other than 60 cycle, 3 phase, so indicate.

SUBSTATIONS

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

4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended.
5. Show in columns (i), (j), and (k) special equipment such as rotary converters, reflectors, 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	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											
2											
3											
4											
5											
6											
7											
8											
9	Gilbert Street	Distribution - Unattended	115kv	13.8kv	23kv	36,000					
10	Gilbert Street Expansion	Distribution - Unattended	115kv	13.8kv		80,000					
11	East Mansfield (Bird Road)	Distribution - Unattended	115kv	13.8kv		80,000					
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
TOTALS						196,000	0	0			

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	TOTAL
1	Miles - Beginning of Year	89.02		89.02
2	Added During Year	0.00		0.00
3	Retired During Year	0.00		0.00
4	Miles - End of Year	89.02		89.02
5				
6				
7				
8				
9				
10				
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.....		11,123	2,036	109,540
17	Additions during year:				
18	Purchased.....		306	21	1,950
19	Installed.....				
20	Associated with utility plant acquired.....				
21	Total additions.....		306	21	1,950
22	Reduction during year:				
23	Retirements.....		244	10	920
24	Associated with utility plant sold.....				
25	Total reductions.....		244	10	920
26	Number at End of Year.....		11,185	2,047	110,570
27	In Stock.....		716	91	7,206
28	Locked Meters' on customers' premises.....				
29	Inactive Transformers on System.....				
30	In Customers' Use.....				
31	In Companys' Use.....				
32	Number at End of Year.....		716	91	7,206

STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town (a)	TYPE						
		High Press. Sodium			LED			
		Other (b)	Municipal (c)	Total (d)	(e)	Other (f)	Municipal (g)	Total (h)
1	Mansfield							
2								
3	50 Watt	37	712	749	36 watt	51	1,391	1,442
4								
5								
6	100 Watt	3	265	268	52 watt	2	267	268
7								
8								
9	250 Watt	8	23	31	73 watt	32	0	32
10								
11								
12	400 Watt	177	68	245	85 watt	1	30	31
13								
14								
15	1000 Watt	1		1	90 watt	1	24	25
16								
17								
18					103 watt	18	60	78
19								
20								
21					140 watt	3	4	7
22								
23								
24								
25								
26								
27								
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29								
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44								
45								
46								
47								
48								
49								
50								
51								
52	TOTALS	226	1,068	1,294	0	108	1,776	1,883

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 predicted on the previous year's operations.

Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect of Annual Revenues																	
			Increases	Decrease																
		Purchase Power Charge Changes as follows: <table><tr><td>Date</td><td>New Rate</td></tr><tr><td>Jan - Jun 2018</td><td>.0928</td></tr><tr><td>Jul - Dec 2018</td><td>.0906</td></tr></table> Distribution Charge Changes as follows: <table><tr><td>Date</td><td>New Rate</td></tr><tr><td>Jan - Dec 2018 (For First 1,000 kwh)</td><td>.0367</td></tr><tr><td>Jan - Dec 2018 (For All Additional kwh over 1,000)</td><td>.0533</td></tr></table> Residential Credit Factor as follows: <table><tr><td>Date</td><td>New Rate</td></tr><tr><td>Jan - Dec 2018 (For First 1,000 kwh)</td><td>.0155</td></tr></table>	Date	New Rate	Jan - Jun 2018	.0928	Jul - Dec 2018	.0906	Date	New Rate	Jan - Dec 2018 (For First 1,000 kwh)	.0367	Jan - Dec 2018 (For All Additional kwh over 1,000)	.0533	Date	New Rate	Jan - Dec 2018 (For First 1,000 kwh)	.0155		
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THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

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Mayor


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Joseph M. Sollecito

Manager of Electric Light

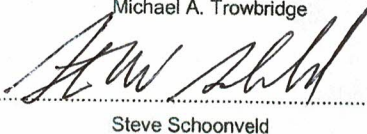

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Jess Aptowitz


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Frank Delvecchio


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Neil Rhein

**Selectmen
or
Members
of the
Municipal
Light
Board**

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Michael A. Trowbridge


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Steve Schoonveld