



The Commonwealth of Massachusetts

**RETURN**

OF THE

**MUNICIPAL LIGHT DEPARTMENT OF  
THE TOWN OF SOUTH HADLEY**

TO THE

**DEPARTMENT OF PUBLIC UTILITIES**

OF MASSACHUSETTS

For the Year Ended December 31,

**2015**

RECEIVED  
Rates and Revenue Division

APR 28 2016

Commonwealth of Massachusetts  
Department of Public Utilities

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

Wayne D. Doerpholz

Official Title: **Manager**

Office Address:

85 Main Street  
South Hadley, MA 01075

## TABLE OF CONTENTS

	Pages
General Information	3
Schedule of Estimates	4
Customers in each City or Town	4
Appropriations Since Beginning of Year	5
Changes in the Property	5
Bonds	6
Town Notes	7
Cost of Plant	8
Comparative Balance Sheet	10-11
Income Statement	12
Earned Surplus	12
Cash Balances	14
Materials and Supplies	14
Depreciation Fund Account	14
Utility Plant - Electric	15-17
Miscellaneous Non-operating Income	21
Other Income Deductions	21
Miscellaneous Credits to Surplus	21
Miscellaneous Debits to Surplus	21
Appropriations of Surplus	21
Municipal Revenues	22
Purchased Power	22
Sales for Resale	22
Electric Operating Revenues	37
Sales of Electricity to Ultimate Consumers	38
Electric Operation and Maintenance Expenses	39-42
Income from Merchandising, Jobbing and Contract Work	51
Sales for Resale	52-53
Purchased Power	54-55
Interchange Power	56
Electric Energy Account	57
Monthly Peaks and Output	57
Substations	68
Overhead Distribution Lines Operated	69
Electric Distribution Services, Meters and Line Transformers	69
Electric Distribution Services, Meters and Line Transformers	69
Conduit, Underground Cable and Submarine Cable	70
Street Lamps	71
Rate Schedule Information	79
Signature Page	81

### FOR GAS PLANTS ONLY:

	Pages		Pages
Utility Plant - Gas	19-20	Gas Generating Plant	74
Gas Operating Revenues	43	Boilers	75
Sales of Gas to Ultimate Consumers	44	Scrubbers, Condensers and Exhausters	75
Gas Operation & Maintenance Expenses	45-47	Purifiers	76
Purchased Gas	48	Holders	76
Sales for Resale	48	Transmission and Distribution Mains	77
Sales of Residuals	48	Gas Distribution Services, House Governors	
Record of Sendout for the Year in MCF	72-73	and Meters	78

PAGES INTENTIONALLY OMITTED: 9, 13, 18-20, 23-36, 43-50, 58-67, 72-78, 80

GENERAL INFORMATION

- 1. Name of town (or city) making this report: Town of South Hadley, Massachusetts
- 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: Amherst Power Company
- 3. Date of votes to acquire a plant in accordance with the provisions of chapter 164 of the General Laws: April 14, 1914  
Record of votes: First vote - Yes 141, No 35 Second vote - Yes 169, No 44  
Date when town (or city) began to sell electricity: 1914
- 4. Name and address of manager of municipal lighting: Wayne D. Doerpholz - 3 Fairlawn Street, South Hadley, MA
- 4. Name and address of mayor or selectmen: Chair : Francis J. DeToma, 31 Ashfield Lane, South Hadley, MA  
Vice-Chair : Ira J. Brezinsky, 93 Woodbridge Street, South Hadley, MA  
Clerk : Bruce C. Forcier, 24 Dale Street, South Hadley, MA  
Member : Sarah Eitelman, 9 Garden Street, South Hadley, MA  
Member : John R. Hine, 39 Chestnut Hill Road, South Hadley, MA
- 5. Name and address of town (or city) treasurer: Deborah Baldini, 32 Park Avenue, South Hadley, MA
- 6. Name and address of town (or city) clerk: Carlene C. Hamlin, 16 Priestly Farms Road, South Hadley, MA
- 7. Names and addresses of members of municipal light board: Chair : Anne S. Awad - 4 Jewett Lane, South Hadley, MA  
Vice-Chair : Daniel Whitford - 5 Misty Court, South Hadley, MA  
Clerk : Kurt Schenker - 59 Pine Street, South Hadley, MA
- 8. Total valuation of estates in town (or city) according to last state valuation: \$1,452,428,625
- 9. Tax rate for all purposes during the year: Fiscal 2016 Town - \$17.56, Fire District 1 - \$2.29, Fire District 2 - \$2.93
- 10. Amount of manager's salary: \$141,138
- 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**

<b>INCOME FROM PRIVATE CONSUMERS:</b>		
1	FROM SALES OF GAS	
2	FROM SALE OF ELECTRICITY	15,045,000
3	FROM RATE STABILIZATION FUND	
4		
	<b>Totals</b>	<b>15,045,000</b>
5	<b>Expenses:</b>	
6	For operation, maintenance and repairs	13,644,000
7	For interest on bonds, notes or scrip	
8	For depreciation fund	1,043,000
9	For sinking fund requirements	
10	For note payments	
11	For bond payments	
12	For loss in preceding year	
13		
	<b>Totals</b>	<b>14,687,000</b>
14		
15	<b>Cost:</b>	
16	Of gas to be used for municipal buildings	
17	Of gas to be used for street lights	
18	Of electricity to be used for municipal buildings	575,572
19	Of electricity to be used for street lights	100,777
20	Total of the above items to be included in the tax levy	676,349
21		
22	New construction to be included in the tax levy	
23	Total amounts to be included in the tax levy	676,349

**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	None	South Hadley	7,745
		Granby	40
		Hadley	9
		Holyoke	1
		<b>Totals</b>	<b>7,795</b>

**APPROPRIATIONS SINCE BEGINNING OF YEAR**  
(Include also all items charged direct to tax levy, even where no appropriation is made or required.)

## FOR CONSTRUCTION OR PURCHASE OF PLANT:

\* At meeting, to be paid from { \_\_\_\_\_  
 \* At meeting, to be paid from { \_\_\_\_\_

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

1. Street Lights	100,777
2. Municipal Buildings	575,572
<b>TOTAL</b>	<b>676,349</b>

\*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:

**Completed phase I of LED street light conversion project**

**Rebalanced circuits and installed protective fusing**

In gas property:

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

6  
YEAR ENDED DECEMBER 31, 2015

BONDS

(Issued on Account of Gas or Electric Lighting)

When Authorized*	Date of issue	Amount of Original Issue	Period of Payments		Interest		Amount Outstanding
			Amounts	When Payable	Rate	When Payable	
January 1, 1915	January 1, 1915	\$ 40,000					
SEE ATTACHMENT A - MIMWEC							
Total		\$ 40,000				Total	NONE

The bonds and notes outstanding at the end of the year should agree with the balance sheet. When bond and notes are repaid, report the first three columns only.  
\*Date of meeting and whether regular or special

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
			Amounts	When Payable	Rate	When Payable	
NONE							
Total							0

The bonds and notes outstanding at the end of the year should agree with the balance sheet. When bond and notes are repaid, report the first three columns only.  
 \*Date of meeting and whether regular or special

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						
2							
3							
4		0	0	0	0	0	0
5	2. PRODUCTION PLANT						
6	A. Steam Production						
7	310 Land and Land Rights						
8	311 Structures and Improvements						
9	312 Boiler Plant Equipment						
10	313 Engines and Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	316 Miscellaneous Power Plant Equipment						
15	Total Steam Production Plant	0	0	0	0	0	0
16	B. Nuclear Production Plant						
17	320 Land and Land Rights						
18	321 Structures and Improvements						
19	322 Reactor Plant Equipment						
20	323 Turbogenerator Units						
21	324 Accessory Electric Equipment						
22	325 Miscellaneous Power Plant Equipment						
23	Total Nuclear Production Plant	0	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	<b>C. Hydraulic Production Plant</b>						
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	<b>Total Hydraulic Production Plant.</b>	0	0	0	0	0	0
10	<b>D. Other Production Plant</b>						
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	<b>Total Other Production Plant</b>	0	0	0	0	0	0
19	<b>Total Production Plant</b>	0	0	0	0	0	0
20	<b>3. TRANSMISSION PLANT</b>						
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 Devices						
28	357 Underground Conduits						
29	358 Underground Conductors and Devices						
30	359 Roads and Trails						
31	<b>Total Transmission Plant</b>	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	<b>4. DISTRIBUTION PLANT</b>						
2	360 Land and Land Rights						
3	361 Structures and Improvements						
4	362 Station Equipment	6,006,289					6,006,289
5	363 Storage Battery Equipment						
6	364 Poles, Towers and Fixtures	1,911,071	34,800				1,945,871
7	365 Overhead Conductors and Devices	8,306,838	142,091	38,145			8,448,929
8	366 Underground Conduits	2,958,362	6,849				2,965,211
9	367 Underground Conductors & Devices	3,911,923	63,461				3,975,384
10	368 Line Transformers	1,952,306	27,126	26,837			1,952,595
11	369 Services	794,726	12,278	276			806,728
12	370 Meters	1,929,680	9,784	8,913			1,930,551
13	371 Installation on Cust's Premises	1,142,387		1,142,387			0
14	372 Leased Prop. on Cust's Premises	239,596		49,945			189,651
15	373 Street Light and Signal Systems	1,241,242	133,648	226,446			1,148,444
16	<b>Total Distribution Plant</b>	30,394,420	430,037	1,492,949	0	0	29,331,508
17	<b>5. GENERAL PLANT</b>						
18	389 Land and Land rights	333,358	11,090				344,448
19	390 Structures and Improvements	769,107					769,107
20	391 Office Furniture and Equipment	1,129,634	18,485				1,148,119
21	392 Transportation Equipment	1,114,909	44,098				1,159,007
22	393 Stores Equipment	28,701					28,701
23	394 Tools, Shop and Garage Equipment	394,370					394,370
24	395 Laboratory Equipment	119,298					119,298
25	396 Power Operated Equipment	138,939					138,939
26	397 Communication Equipment	113,214	1,208				114,422
27	398 Miscellaneous Equipment	48,448					48,448
28	399 Other Tangible Property	1,475,892	29,260				1,505,152
29	<b>Total General Plant</b>	5,665,870	104,141	0		0	5,770,011
30	<b>Total Electric Plant in Service</b>	36,060,290	534,178	1,492,949	0	0	35,101,519
31							
32							
33							
34							

## TOTAL COST OF PLANT.....

Less Cost of Land, Land Rights, and Rights of Way

Total Cost upon which depreciation is based

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.

## COMPARATIVE BALANCE SHEET Assets and Other Debits

Line No.	Title of Account	Balance Beginning of Year	Balance End of Year	Increase or (Decrease)
	(a)	(b)	(c)	(d)
1	<b>UTILITY PLANT</b>			
2	101 Utility Plant -Electric	5,964,097	5,791,009	(173,088)
3	101 Utility Plant- Gas			
4	123 Investment in Associated Companies			
5	<b>Total Utility Plant</b>	5,964,097	5,791,009	(173,088)
6				
7				
8				
9				
10				
11	<b>FUND ACCOUNTS</b>			
12	125 Sinking Funds			
13	126 Depreciation Fund (P. 14)	4,860,286	5,048,467	188,181
14	128 Other Special Funds	12,310,070	12,398,858	88,788
15	<b>Total Funds</b>	17,170,356	17,447,325	276,969
16	<b>CURRENT AND ACCRUED ASSETS</b>			
17	131 Cash (P. 14)	3,024,569	3,331,598	307,029
18	132 Special Deposits	179,850	256,110	76,260
19	132 Working Funds	1,080,615	1,088,252	7,637
20	141 Notes and Receivables			
21	142 Customer Accounts Receivable	832,479	350,888	(481,591)
22	143 Other Accounts Receivable			
23	146 Receivables from Municipality			
24	151 Materials and Supplies (P. 14)	438,976	461,978	23,002
25				
26	165 Prepayments	50,591	47,312	(3,279)
27	174 Miscellaneous Current Assets			
28	<b>Total Current and Accrued Assets</b>	5,607,080	5,536,138	(70,942)
29	<b>DEFERRED DEBITS</b>			
30	181 Unamortized Debt Discount			
31	182 Extraordinary Property Debits			
32	185 Other Deferred Debits		531,537	531,537
33	<b>Total Deferred Debits</b>		531,537	531,537
34				
35	<b>Total Assets and Other Debits</b>	28,741,533	29,306,009	564,476

## COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account	Balance Beginning of Year	Balance End of Year	Increase or (Decrease)
	(a)	(b)	(c)	(d)
1	<b>APPROPRIATIONS</b>			
2	201 Appropriations for Construction			
3	<b>SURPLUS</b>			
4	205 Sinking Fund Reserves			
5	206 Loans Repayment			
6	207 Appropriations for Construction Repayment.			
7	208 Unappropriated Earned Surplus (P. 12)	23,128,565	20,991,529	(2,137,036)
8	<b>Total Surplus</b>	23,128,565	20,991,529	(2,137,036)
9	<b>LONG TERM DEBT</b>			
10	221 Bonds (P. 6)			
11	231 Notes Payable (P. 7)			
12	<b>Total Bonds and Notes</b>	0	0	0
13	<b>CURRENT AND ACCRUED LIABILITIES</b>			
14	232 Accounts Payable	672,174	534,222	(137,952)
15	234 Payables to Municipality			
16	235 Customer Deposits	179,850	256,110	76,260
17	236 Taxes Accrued			
18	237 Interest Accrued			
19	242 Miscellaneous Current and Accrued Liabilities	24,737	39,192	14,455
20	<b>Total Current and Accrued Liabilities</b>	876,761	829,524	(47,237)
21	<b>DEFERRED CREDITS</b>			
22	251 Unamortized Premium on Debt			
23	252 Customer Advance for Construction			
24	253 Other Deferred Credits	1,604,524	4,237,899	2,633,375
25	<b>Total Deferred Credits</b>	1,604,524	4,237,899	2,633,375
26	<b>RESERVES</b>			
27	260 Reserves for Uncollectable Accounts			
28	261 Property Insurance Reserve			
29	262 Injuries and Damages Reserves			
30	263 Pensions and Benefits			
31	265 Miscellaneous Operating Reserves			
32	<b>Total Reserves</b>			
33	<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>			
34	271 Contributions in Aid of Construction	3,131,683	3,247,057	115,374
35	<b>Total Liabilities and Other Credits</b>	28,741,533	29,306,009	564,476

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	<b>OPERATING INCOME</b>		
2	400 Operating Revenue (P. 37 and P. 43)	15,364,724	(983,671)
3	<b>Operating Expenses:</b>		
4	401 Operation Expense (P.42)	13,752,412	(528,849)
5	402 Maintenance Expense (P. 42)	425,421	66,650
6	403 Depreciation Expense	1,071,809	4,060
7	407 Amortization of Property Losses		
8			
9	408 Taxes (P. 48)		
10	<b>Total Operating Expenses</b>	15,249,642	(458,139)
11	Operating Income	115,082	(525,532)
12	414 Other Utility Operating Income (P.50)		
13			
14	<b>Total Operating Income</b>	115,082	(525,532)
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)		
17	419 Interest Income	118,634	(5,096)
18	421 Miscellaneous Income		
19	<b>Total Other Income</b>	118,634	(5,096)
20	<b>Total Income</b>	233,716	(530,628)
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization		
23	426 Other Income Deductions	73,425	73,425
24	<b>Total Income Deductions</b>	73,425	73,425
25	<b>Income before Interest Charges</b>	160,291	(604,053)
26	<b>INTEREST CHARGES</b>		
27	427 Interest on Bonds and Notes		
28	428 Amortization of Debt Discount and Expense		
29	429 Amortization of Premium on Debt		
30	431 Other Interest Expense		
31	432 Interest Charged to Construction-Credit		
32	<b>Total Interest Charges</b>		
33	<b>Net Income</b>	160,291	(604,053)

## EARNED SURPLUS

Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of Period)		23,128,565
35			
36	433 Balance transferred from Income		160,291
37	434 Miscellaneous Credits to Surplus		794,658
38	435 Miscellaneous Debits to Surplus	3,091,985	
39	436 Appropriations of Surplus (P.21)		
40	437 Surplus Applied to Depreciation		
41	208 Unappropriated Earned Surplus (at end of period)	20,991,529	
42	<b>Totals</b>	<b>24,083,514</b>	<b>24,083,514</b>

**CASH BALANCES AT END OF YEAR (Account 131)**

Line No.	Items (a)	Amount (b)
1	Operation Fund	3,331,598
2	Interest Fund	
3	Bond Fund	
4	Construction Fund	
5		
6		
7		
8		
9		
10		
11		
12	Totals	

**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)	461,978			
14	Fuel Stock Expenses (Account 152)				
15	Residuals (Account 153)				
16	Plant Materials and Operating Supplies (Account 154)				
17	Merchandise (Account 155)				
18	Other Materials and Supplies (Account 156)				
19	Nuclear Fuel Assemblies and Components - In Reactor (Acct 157)				
20	Nuclear Fuel Assemblies and Components - Stock Acct (Acct 158)				
21	Nuclear Byproduct Materials (Account 159)				
22	Stores Expense (Account 163)				
23	<b>Total per Balance Sheet</b>			461,978	0

**DEPRECIATION FUND ACCOUNT (Account 126)**

Line No.	(a)	Amount (b)
<b>DEBITS</b>		
25	Balance of Account at Beginning of Year	4,860,286
26	Income During Year from Balance on Deposit	
27	Amount Transferred from Income	1,071,809
28	Totals	5,932,095
<b>CREDITS</b>		
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.)	497,996
32	Amounts Expended for Renewals	557,181
33	Adjustment: Retirements	(56,175)
34	Adjustments: Contributions in Aid of Construction	(115,374)
35		
36		
37		
38		
39	Balance on Hand at End of Year	5,048,467
40	Totals	5,932,095

UTILITY PLANT - ELECTRIC

1. Report below the cost of utility plant in service according to prescribed accounts.  
 2. Do not include as adjustments, corrections of additions and retirements for the current or the 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)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	<b>1. INTANGIBLE PLANT</b>						
2							
3							
4							
5		0	0	0	0	0	0
6	<b>2. PRODUCTION PLANT</b>						
7	<b>A. Steam Production</b>						
8	310 Land and Land Rights						
9	311 Structures and Improvements						
10	312 Boiler Plant Equipment						
11	313 Engines and Engine Driven Generators						
12	314 Turbogenerator Units						
13	315 Accessory Electric Equipment						
14	316 Miscellaneous Power Plant Equipment						
15	<b>Total Steam Production Plant</b>	0	0	0	0	0	0
16	<b>B. Nuclear Production Plant</b>						
17	320 Land and Land Rights						
18	321 Structures and Improvements						
19	322 Reactor Plant Equipment						
20	323 Turbogenerator Units						
21	324 Accessory Electric Equipment						
22	325 Miscellaneous Power Plant Equipment						
23	<b>Total Nuclear Production Plant</b>	0	0	0	0	0	0

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	<b>C. Hydraulic Production Plant</b>						
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	<b>Total Hydraulic Production Plant</b>	0	0	0	0	0	0
10	<b>D. Other Production Plant</b>						
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	<b>Total Other Production Plant</b>	0	0	0	0	0	0
19	<b>Total Production Plant</b>	0	0	0	0	0	0
20	<b>3. TRANSMISSION PLANT</b>						
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 Devices						
28	357 Underground Conduits						
29	358 Underground Conductors and Devices						
30	359 Roads and Trails						
31	<b>Total Transmission Plant</b>	0	0	0	0	0	0



## 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	<b>4. DISTRIBUTION PLANT</b>						
2	360 Land and Land Rights						
3	361 Structures and Improvements						
4	362 Station Equipment	2,966,025		180,189			2,785,836
5	363 Storage Battery Equipment						
6	364 Poles, Towers and Fixtures	25,272	34,800	25,272			34,800
7	365 Overhead Conductors and Devices	261,984	142,091	238,365		(34,272)	131,438
8	366 Underground Conduits	5,020	6,849	5,018			6,851
9	367 Underground Conductors & Devices	144,689	63,461	117,358			90,792
10	368 Line Transformers	8,735	27,126	8,736			27,125
11	369 Services	14,869	12,278	14,868			12,279
12	370 Meters	222,580	9,784	57,890			174,474
13	371 Installation on Cust's Premises						
14	372 Leased Prop. on Cust's Premises						
15	373 Street Light and Signal Systems	304,637		34,272	133,453	(136,912)	171,184
16	<b>Total Distribution Plant</b>	117,984	133,648	37,237			214,395
17	<b>5. GENERAL PLANT</b>	4,071,795	430,037	719,205	133,453	0	3,649,174
18	389 Land and Land rights						
19	390 Structures and Improvements	333,358	11,090				344,448
20	391 Office Furniture and Equipment	143,541	18,485	92,342			69,684
21	392 Transportation Equipment	300,822	44,098	111,491			233,429
22	393 Stores Equipment						
23	394 Tools, Shop and Garage Equipment	1,182	0	1,182			
24	395 Laboratory Equipment						
25	396 Power Operated Equipment						
26	397 Communication Equipment						
27	398 Miscellaneous Equipment						
28	399 Other Tangible Property						
29	<b>Total General Plant</b>	980,822	29,260	147,589			862,493
30	<b>Total Electric Plant in Service</b>	1,759,725	104,141	352,604	0	0	1,511,262
31	104 Utility Plant leased to Others	5,831,520	534,178	1,071,809	133,453	0	5,160,436
32	105 Property Held for Future Use						
33	107 Construction Work in Progress	132,577	497,996				630,573
34	108 Accumulated Depreciation						
	<b>Total Utility Electric Plant</b>	5,964,097	1,032,174	1,071,809	133,453	0	5,791,009

## MISCELLANEOUS NON-OPERATING INCOME (Account 421)

Line No.	Item (a)	Amount (b)
1		
2		
4		
5		
6	Total	0

## OTHER INCOME DEDUCTIONS (Account 426)

Line No.	Item (a)	Amount (b)
7		
8		
9		
11		
12		
13		
14	Total	0

## MISCELLANEOUS CREDITS TO SURPLUS (Account 434)

Line No.	Item (a)	Amount (b)
15	Deferred Outflows at Beginning of Year	410,617
16	Compensated Absence Liability Adjustment	384,041
17		
19		
21		
22		
23	Total	794,658

## MISCELLANEOUS DEBITS TO SURPLUS (Account 435)

Line No.	Item (a)	Amount (b)
24	Operating Transfer to Town of South Hadley	227,752
25	Pension Liability at Beginning of Year	2,864,233
26		
27		
29		
30		
31		
32	Total	3,091,985

## APPROPRIATIONS OF SURPLUS (Account 436)

Line No.	Item (a)	Amount (b)
33		
34		
36		
37		
38		
39		
40	Total	0

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

YEAR ENDED DECEMBER 31, 2015

MUNICIPAL REVENUES (Accounts 482,444)  
(K.W.H. Sold under the Provision of Chapter 269, Acts of 1927)

Line No.	Acct No.	Gas Schedule	Cubic Feet	Revenue Received	Average Revenue per M.C.F [0.0000]
		(a)	(b)	(c)	(d)
1					
2		Totals			
Line No.		Electric Schedule	K.W.H.	Revenue Received	Average Revenue per K.W.H. (cents) [0.0000]
		(a)	(b)	(c)	(d)
3					
4	444	Municipal: (Other Than Street Lighting)	5,541,129	743,205	13.4125
5					
6		Totals	5,541,129	743,205	13.4125
7					
8		Street Lighting	921,459	103,111	11.1899
9					
10		Totals	921,459	103,111	11.1899
11					
12		Totals	6,462,588	846,316	13.0956

PURCHASED POWER (Account 555)

Line No.	Names of Utilities from which Electric Energy Is Purchased	Where and at What Voltage Received	K.W.H.	Amount	Cost per K.W.H. (cents) [0.0000]
	(a)	(b)	(c)	(d)	(e)
13	PASNY via MMWEC	Pine Shed 115 KV	6,992,437	90,517	1.2945
14	Millstone 3	Pine Shed 115 KV	61,311,516	4,608,946	7.5173
15	Seabrook 4 & 5	Pine Shed 115 KV	32,360,141	2,060,667	6.3679
16	C/MORGA	Pine Shed 115 KV	377,600	15,123	4.0050
17	C/NOBLE	Pine Shed 115 KV	1,261,600	129,470	10.2624
21	C/MCQRE	Pine Shed 115 KV	206,400	17,603	8.5286
22	C/ARGL	Pine Shed 115 KV	544,000	26,492	4.8699
23	C/PSEG	Pine Shed 115 KV	809,600	42,444	5.2426
24	C/POWEX	Pine Shed 115 KV	334,800	12,760	3.8112
25					
26					
27					
25		Totals	104,198,094	7,004,022	6.7218

SALES FOR RESALE (Account 447)

Line No.	Names of Utilities to which Electric Energy is Sold	Voltage Received Where and at What Voltage Received	K.W.H.	Amount	Revenues per K.W.H. [cents] [0.0000]
	(a)	(b)	(c)	(c)	(e)
26					
27		Totals			

**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 number of meters, plus number of flat rate accounts, except that where separate meter readings

are added for billing purposes, one customer shall be counted for each group of meters so added. The average number of customers means the average of the 12 figures at the close of each month. If the customer count in the residential service classification includes customers counted more than once because of special services, such as water heating, etc., indicate in a footnote the number of such duplicate customers included in the classification.  
 4. Unmetered sales should be included below. The details of such sales should be given in a footnote.  
 5. Classification of Commercial and Industrial Sales, Account 442, according to small (or Commercial) and Large (or Industrial) may be according to the basis of classification regularly used by the respondent if such basis of classification is not greater than 1000 Kw of demand. See Account 442 of the Uniform System of Accounts. Explain basis 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)		
<b>SALES OF ELECTRICITY</b>									
1									
2	440 Residential Sales	8,295,992	(564,401)	59,368,473	(175,830)	7,040	80		
3	442 Commercial and Industrial Sales:								
4	Small (or Commercial) see instr. 5	2,680,849	(124,636)	18,263,554	351,051	772	19		
5	Large (or Industrial) see instr. 5	3,334,748	(207,524)	27,465,121	575,737	12	0		
6	444 Municipal Sales (P.22)	846,316	(37,708)	6,462,588	27,026	49	2		
7	445 Other Sales to Public Authorities								
8	446 Sales to Railroads and Railways								
10	449 Miscellaneous Electric Sales	66,055	(2,871)	330,230	(5,364)	240	(47)		
11	<b>Total Sales to Ultimate Consumers</b>	<b>15,223,960</b>	<b>(937,140)</b>	<b>111,889,966</b>	<b>772,620</b>	<b>8,113</b>	<b>54</b>		
12	447 Sales for Resale	0	0	0	0	0	0		
13	<b>Total Sales of Electricity*</b>	<b>15,223,960</b>	<b>(937,140)</b>	<b>111,889,966</b>	<b>772,620</b>	<b>8,113</b>	<b>54</b>		
<b>OTHER OPERATING REVENUES</b>									
14	450 Forfeited Discounts								
15	451 Miscellaneous Service Revenues	109,471	72,647						
17	453 Sales of Water and Water Power	20,210	(115,862)						1,695,503
18	454 Rent from Electric Property								
19	455 Interdepartmental Rents								
20	456 Other Electric Revenues	11,083	(3,315)						110,968,507
24									
25	Total Other Operating Revenues.....	140,764	(46,530)						
26	Total Electric Operating Revenues.	15,364,724	(983,670)						

\*Includes revenues from application of fuel clauses

Total KWH to which applied

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.	Acct No.	Schedule	K.W.H.	Revenue	Average Revenue per K.W.H. (cents) *(0.0000)	Number of Customers (per Bills Rendered)	
						July 31	December 31
						(e)	(f)
(a)	(b)	(c)	(d)	(e)	(f)		
1	440	Residential - General	45,631,857	6,520,804	14.2900	N/A	5,871
2		Residential - Heating	13,736,616	1,775,188	12.9230	N/A	1,169
3	442	Commercial - Small	18,263,554	2,680,849	14.6787	N/A	772
4		Industrial	27,465,121	3,334,748	12.1418	N/A	12
5	444	Municipal - General	5,541,129	743,205	13.4125	N/A	48
6		Municipal - Street Lights	921,459	103,111	11.1899	N/A	1
7	449	Miscellaneous	330,230	66,055	20.0026	N/A	240
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							
36							
37							
38							
39							
40							
41							
42	Total Sales to Ultimate						
43	Consumers ( Page 37 Line 11 )		111,889,966	15,223,958	13.6062	N/A	8,113

**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	Amount for Year	Increase or (Decrease) from Preceding Year
	(a)	(b)	(c)
1	<b>POWER PRODUCTION EXPENSE</b>		
2	<b>STEAM POWER GENERATION</b>		
3	<b>Operation:</b>		
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	<b>Total Operation</b>	0	0
13	<b>Maintenance:</b>		
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	<b>Total Maintenance</b>	0	0
20	<b>Total power production expenses - steam power</b>	0	0
21	<b>NUCLEAR POWER GENERATION</b>		
22	<b>Operation:</b>		
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	<b>Total Operation</b>	0	0
33	<b>Maintenance:</b>		
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	<b>Total Maintenance</b>	0	0
40	<b>Total power production expenses - nuclear power</b>	0	0
41	<b>HYDRAULIC POWER GENERATION</b>		
42	<b>Operation:</b>		
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	<b>Total Operation</b>	0	0

(continued on page 40)

## ELECTRIC OPERATION AND MAINTENANCE EXPENSES (Continued)

Line No.	Account	Amount for Year	Increase or (Decrease) from Preceding Year
	(a)	(b)	(c)
1	<b>HYDRAULIC POWER GENERATION - CONTINUED</b>		
2	<b>Maintenance:</b>		
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	<b>Total Maintenance</b>	0	0
9	<b>Total Power Production Expenses - Hydraulic Power</b>	0	0
10	<b>OTHER POWER GENERATION</b>		
11	<b>Operation:</b>		
12	546 Operation Supervision and Engineering		
13	547 Fuel		
14	548 Operation Expenses		
15	549 Miscellaneous Other Power Generation Expenses		
16	550 Rents		
17	<b>Total Operation</b>	0	0
18	<b>Maintenance:</b>		
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	<b>Total Maintenance</b>	0	0
24	<b>Total Power Production Expenses - Other Power</b>	0	0
25	<b>OTHER POWER SUPPLY EXPENSES</b>		
26	555 Purchased Power	9,281,559	(807,646)
27	556 System Control and Load Dispatching		
28	557 Other Expenses	168,002	(9,181)
29	<b>Total Other Power Supply Expenses</b>	9,449,561	(816,827)
30	<b>Total Power Production Expenses</b>	9,449,561	(816,827)
31	<b>TRANSMISSION EXPENSES</b>		
32	<b>Operation:</b>		
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	2,072,986	149,769
39	566 Miscellaneous Transmission Expenses		
40	567 Rents		
41	<b>Total Operation</b>	2,072,986	149,769
42	<b>Maintenance:</b>		
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	<b>Total Maintenance</b>	0	0
50	<b>Total Transmission Expenses</b>	2,072,986	149,769

## ELECTRIC OPERATION AND MAINTENANCE EXPENSES (Continued)

Line No.	Account	Amount for Year	Increase or (Decrease) from Preceding Year
	(a)	(b)	(c)
1	<b>DISTRIBUTION EXPENSES</b>		
2	<b>Operation:</b>		
3	580 Operation Supervision and Engineering	56,800	2,705
4	581 Load Dispatching		
5	582 Station Expenses	4,198	1,529
6	583 Overhead Line Expenses	332,060	20,670
7	584 Underground Line Expenses	49,579	5,968
8	585 Street Lighting and Signal System Expenses		0
9	586 Meter Expenses	27,247	(4,775)
10	587 Customer Installations Expenses	41,911	(11,415)
11	588 Miscellaneous Distribution Expenses	96,959	20,605
12	589 Rents		
13	<b>Total Operation</b>	608,754	35,287
14	<b>Maintenance:</b>		
15	590 Maintenance supervision and engineering	56,800	2,705
16	591 Maintenance of Structures		
17	592 Maintenance of Station Equipment	18,546	4,992
18	593 Maintenance of Overhead Lines	185,371	14,934
19	594 Maintenance of Underground Lines	23,164	2,699
20	595 Maintenance of Line Transformers	9,610	8,034
21	596 Maintenance of Street Lighting and Signal Systems	29,007	1,752
22	597 Maintenance of Meters	15,209	104
23	598 Maintenance of Miscellaneous Distribution Plant		
24	<b>Total Maintenance</b>	337,707	35,220
25	<b>Total Distribution Expenses</b>	946,461	70,507
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	<b>Operation:</b>		
28	901 Supervision		
29	902 Meter Reading Expenses	24,739	7,209
30	903 Customer Records and Collection Expenses	269,798	19,013
31	904 Uncollectable Accounts	67,790	(32,210)
32	905 Miscellaneous Customer Accounts Expenses		
33	<b>Total Customer Accounts Expenses</b>	362,327	(5,988)
34	<b>SALES EXPENSES</b>		
35	<b>Operation:</b>		
36	911 Supervision		
37	912 Demonstrating and Selling Expenses		
38	913 Advertising Expenses	14,240	(11,611)
39	916 Miscellaneous Sales Expense		
40	<b>Total Sales Expenses</b>	14,240	(11,611)
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	<b>Operation:</b>		
43	920 Administrative and General Salaries	458,590	164,540
44	921 Office Supplies and Expenses	51,055	5,143
45	922 Administrative Expenses Transferred - Cr		
46	923 Outside Services Employed	135,857	4,326
47	924 Property Insurance	68,313	19,444
48	925 Injuries and Damages	26,742	(8,901)
49	926 Employees Pensions and Benefits	378,403	(53,442)
50	928 Regulatory Commission Expenses		
51	929 Duplicate Charges - Cr		
52	930 Miscellaneous General Expenses	125,584	(10,589)
53	931 Rents		
54	<b>Total Operation</b>	1,244,544	120,521



## ELECTRIC OPERATION AND MAINTENANCE EXPENSES (Continued)

Line No.	Account	Amount for Year	Increase or (Decrease) from Preceding Year
	(a)	(b)	(c)
1	<b>ADMINISTRATIVE EXPENSES</b>		
2	<b>Maintenance:</b>		
3	932 Maintenance of General Plant	69,502	29,361
4	933 Transportation expense	18,212	2,069
5	<b>Total Maintenance</b>	87,714	31,430
6	<b>Total Administrative and General Expenses</b>	1,332,258	151,951
7	<b>Total Electric Operation and Maintenance Expenses</b>	14,177,833	(462,199)

## SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification	OPERATION	MAINTENANCE	TOTAL
	(a)	(b)	(c)	(d)
8	<b>Power Production Expenses</b>			
9	Electric Generation			
10	Steam Power			
11	Nuclear Power			
12	Hydraulic Power			
13	Other Power			
14	Other Power Supply Expenses	9,449,561		9,449,561
15	<b>Total Power Production Expenses</b>	9,449,561		9,449,561
16	Transmission Expenses	2,072,986		2,072,986
17	Distribution Expenses	608,754	337,707	946,461
18	Customer Accounts Expenses	362,327		362,327
19	Sales Expenses	14,240		14,240
20	Administrative and General Expenses	1,244,544	87,714	1,332,258
21	Power Production Expenses			
22	<b>Total Electric Operation and Maintenance Expenses</b>	13,752,412	425,421	14,177,833

- 23 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 22 (d), Depreciation (Acct 403) and Amortization (Acct 407) 99.25%
- 24 Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts 1,533,325
- 25 Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees) 19

**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	Electric Department	Gas Department	Other Utility Department	Total
	(a)	(c)	(d)	(d)	(e)
1	<b>Revenues:</b>				
2	Merchandising sales, less discounts,	/			
3	allowances and returns				
4	Contract Work				
5	Commissions				
6	Other(List according to major classes)				
7					
8					
9					
10	<b>Total Revenues</b>	0	0	0	0
11					
12					
13	<b>Costs and Expenses:</b>				
14	Cost of Sales (List according to Major	/			
15	classes of cost)				
16					
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	<b>Total Costs and Expenses</b>	0	0	0	0
46	<b>Net Profit (or Loss)</b>	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 sale may be grouped.

Type of Demand Reading	Voltage at which Delivered	Kilowatt-Hours	Revenue (Omit Cents)				Revenue per Kwh (cents) [0.0000]	Line No.
			Demand Charges	Energy Charges	Other Charges	Total		
(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	
								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
	Totals	0	0	0	0	0	0.0000	31



**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	Voltage at which Delivered	Kilowatt-Hours	Cost of Energy (Omit Cents)				KWH (cents) (0.0000)	Line No.
			Capacity Charges	Energy Charges	Other Charges	Total		
(i)	(j)	(k)	(l)*	(m)	(n)	(n)	(p)	
60 Min	115KV	6,992,437	56,115	34,402		90,517	1.2945	1
60 Min	115KV	61,311,516	4,196,866	412,080		4,608,946	7.5173	2
60 Min	115KV	32,360,141	1,844,814	215,853		2,060,667	6.3679	3
60 Min	115KV	377,600		15,123		15,123	4.0050	4
60 Min	115KV	1,261,600		129,470		129,470	10.2624	5
60 Min	115KV	206,400		17,603		17,603	8.5286	6
60 Min	115KV	544,000		26,492		26,492	4.8699	7
60 Min	115KV	809,600		42,444		42,444	5.2426	8
60 Min	115KV	334,800		12,760		12,760	3.8112	9
								10
								11
								12
								13
								14
								15
								16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
<p><b>Note: capacity charges are reduced by annual flush of funds for PSA power contracts</b></p>								27
								28
								29
	Totals	104,198,094	6,097,795	906,227	0	7,004,022	6.7218	30

**INTERCHANGE POWER (included in Account 555)**

1. Report below the Kijowatt-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 Non-utilities, (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	Interchange Across State Lines	Point of Interchange	Voltage at Which Interchanged	Kilowatt-hours			Amount of Settlement
					Received	Delivered	Net Difference	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	NEPEX			115KV	119,618,480	107,183,180	12,435,300	2,277,537
2								
3								
4								
5								
6				Totals	119,618,480	107,183,180	12,435,300	2,277,537

**B. Details of Settlement for Interchange Power**

Line No.	Name of Company	Explanation	Amount
(i)	(j)	(k)	(l)
7	NEPEX		170,991
8		NEPOOL Expense	
9		Interchange Expense	2,106,546
10			
11		Total	2,277,537

**ELECTRIC ENERGY ACCOUNT**

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

Line No.	Item		Kilowatt-hours	
	(a)		(b)	
1	<b>SOURCES OF ENERGY</b>			
2	Generation (excluding station use):			
3	Steam	Gas Turbine Combined Cycle		
4	Nuclear			
5	Hydro			
6	Other	Diesel		
7	Total generation			0
8	Purchases			104,198,094
9		{ In (gross)	119,618,480	
10	Interchanges	{ Out (gross)	107,183,180	
11		{ Net (Kwh)		12,435,300
12		{ Received		
13	Transmission for/by others	{ Delivered		
14		{ Net (kwh)		
15	<b>TOTAL</b>			116,633,394
16	<b>DISPOSITION OF ENERGY</b>			
17	Sales to ultimate consumers (including interdepartmental sales)			111,889,966
18	Sales for resale			
19	Energy furnished without charge			
20	Energy used by the company (excluding station use)			
21	Electric department only			265,631
22	Energy losses:			
23	Transmission and conversion losses			
24	Distribution losses		4,477,797	
25	Unaccounted for losses			
26	Total energy losses			4,477,797
27	Energy losses as percent of total on line 15		3.84%	
28			Total	116,633,394

**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 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.

**Monthly Peak**

Line No.	Month	Kilowatts	Day of Week	Day of Month	Hour	Type of Reading	Monthly Output (kwh) See Instr. 4)	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	
29	January	20,907	Wednesday	7	19:00	60 min	11,333,173	
30	February	20,656	Monday	16	19:00	60 min	10,813,910	
31	March	19,040	Tuesday	3	19:00	60 min	10,282,438	
32	April	16,450	Thursday	9	20:00	60 min	8,301,554	
33	May	20,386	Wednesday	27	18:00	60 min	8,737,602	
34	June	20,413	Monday	22	18:00	60 min	8,918,395	
35	July	25,322	Wednesday	29	17:00	60 min	10,989,830	
36	August	24,742	Monday	17	17:00	60 min	11,091,787	
37	September	25,860	Tuesday	8	17:00	60 min	9,699,932	
38	October	15,827	Monday	19	19:00	60 min	8,373,037	
39	November	17,990	Monday	30	19:00	60 min	8,564,683	
40	December	18,264	Tuesday	1	18:00	60 min.	9,527,053	
41	Total							116,633,394



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 sub-station, 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	Voltage			Capacity of Substation in Kva (in Service)	Number Of Transformers in Service	Number of Spare Transformers	Conversion Apparatus and Special Equipment		
			Primary	Secondary	Tertiary				Type of Equipment	No. of Units	Total Capacity
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	
1	PINESHED	Distribution	115KV	13.8KV	93,000	2	0				
2											
3											
4											
5											
6	UNATTENDED										
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21		Totals			93,000	2	0		1	20,000 KVA	

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.	Item	Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles - Beginning of Year	92.52	NONE	92.52
2	Added During Year	0.00		0.00
3	Retired During Year	0.05		0.05
4	Miles - End of Year	92.47		92.47
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				

ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (Kva)
20	Number at beginning of year	5,842	7,894	1,069	67,985.0
21	Additions during year:				
22	Purchased		51	21	660.0
23	Installed	16			
24	Associated with utility plant acquired	0	0	0	0.0
25	<b>Total additions</b>	16	51	21	660.0
26	Reduction during year:				
27	Retirements	2	32	13	519.5
28	Associated with utility plant sold				
29	<b>Total reductions</b>	2	32	13	519.5
30	<b>Number at End of Year</b>	5,856	7,913	1,077	68,125.5
31	In Stock		115	131	10,802.5
32	Locked Meters' on customers' premises				
33	Inactive Transformers on System				
34	In Customers' Use		7,795	945	57,248.0
35	In Companys' Use		3	1	75.0
36	<b>Number at End of Year</b>		7,913	1,077	68,125.5
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

70  
YEAR ENDED DECEMBER 31, 2015

CONDUIT, UNDERGROUND CABLE AND SUBMARINE CABLE - (Distribution System)

Report below the information called for concerning conduit, underground cable, and submarine cable at end of year.

Line No.	Designation of Underground Distribution 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	Primary Distribution	2.0472	0.6496	5kv		
2	Primary Distribution	26.8676	36.0014	15kv		
3	Secondary Distribution	19.8234	67.3927	120/240V		
4	Municipal Distribution	7.0018	15.7701	120V		
5						
6						
7	*(1) Conductor per Cable					
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29	Totals	55.7400	119.8138		0	

\*Indicate number of conductors per cable.

STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town	Total	TYPE							
			LED		Mercury Vapor		Fluorescent		High Press. Sodium	
			Municipal	Other	Municipal	Other	Municipal	Other	Municipal	Other
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
1	South Hadley	1,896	320	0	69	75	0	0	1,225	207
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
43										
44										
45										
46										
47										
48										
49										
50										
51										
52	Totals	1,896	320	0	69	75	0	0	1,225	207


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.

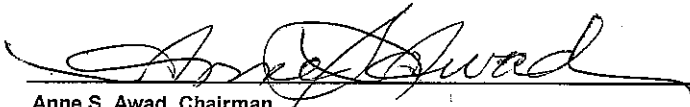
Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect of Annual Revenues	
			Increases	Decrease
		***** SEE ATTACHMENT "B" *****		

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

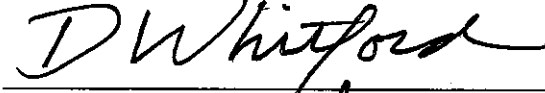
\_\_\_\_\_  
Mayor


  
\_\_\_\_\_  
Wayne D. Doerpholz, Manager

Manager of Electric Light  
Department

  
\_\_\_\_\_  
Anne S. Awad, Chairman

Selectmen  
or  
Members  
of the  
Municipal  
Light  
Board

  
\_\_\_\_\_  
Daniel L. Whitford, Vice-Chairman

  
\_\_\_\_\_  
Kurt C. Schenker, Clerk

## INDEX

	Pages
Appropriations of Surplus	21
Appropriations Since Beginning of Year	5
Bonds	6
Cash Balances	14
Changes in the Property	5
Comparative Balance Sheet	10-11
Conduit, Underground Cable and Submarine Cable	70
Cost of Plant	8
Customers in each City or Town	4
Depreciation Fund Account	14
Earned Surplus	12
Electric Distribution Services, Meters and Line Transformers	69
Electric Energy Account	57
Electric Operating Revenues	37
Electric Operation and Maintenance Expenses	39-42
General Information	3
Income from Merchandising, Jobbing and Contract Work	51
Income Statement	12-13
Interchange Power	56
Materials and Supplies	14
Miscellaneous Credits to Surplus	21
Miscellaneous Debits to Surplus	21
Miscellaneous Non-operating Income	21
Monthly Peaks and Output	57
Municipal Revenues	22
Other Income Deductions	21
Other Utility Operating Income	50
Overhead Distribution Lines Operated	69
Purchased Power	22
Purchased Power	54-55
Rate Schedule Information	79
Sales for Resale	22
Sales for Resale	52-53
Sales of Electricity to Ultimate Consumers	38
Schedule of Estimates	4
Signature Page	81
Street Lamps	71
Substations	68
Town Notes	7
Utility Plant - Electric	15-17

**FOR GAS PLANTS ONLY:**

	Pages		Pages
Boilers	75	Purifiers	76
Gas Distribution Services, House Governors and Meters	78	Record of Sendout for the Year in MCF	72-73
Gas Generating Plant	74	Sales for Resale	48
Gas Operating Revenues	43	Sales of Gas to Ultimate Consumers	44
Gas Operation & Maintenance Expenses	45-47	Sales of Residuals	48
Holdings	76	Scrubbers, Condensers and Exhausters	75
Purchased Gas	48	Transmission and Distribution Mains	77
		Utility Plant - Gas	19-20

PAGES INTENTIONALLY OMITTED 9, 13, 18-20, 23-36, 43-50, 58-67, 72-78, 80

## EXTRACTS FROM CHAPTER 164 OF THE GENERAL LAWS AS AMENDED

**Section 56.** The mayor of a city, or the selectmen or municipal light board, if any, of a town acquiring a gas or electric plant shall appoint a manager of municipal lighting who shall, under the direction and control of the mayor, selectmen or municipal light board, if any, and subject to this chapter, have full charge of the operation and management of the plant, the manufacture and distribution of gas or electricity, the purchase of supplies, the employment of attorneys and of agents and servants, the method, time, price, quantity and quality of the supply, the collection of bills, and the keeping of accounts. His compensation and term of office shall be fixed in cities by the city council and in towns by the selectmen or municipal light board, if any, and, before entering upon the performance of his official duties, he shall give bond to the city or town for the faithful performance thereof in a sum and form and with sureties to the satisfaction of the mayor, selectmen or municipal light board, if any, and shall, at the end of each municipal year, render to them such detailed statement of his doings and of the business and financial matters in his charge as the department may prescribe. All moneys payable to or received by the city, town, manager or municipal light board in connection with the operation of the plant, for the sale of gas or electricity or otherwise, shall be paid to the city or town treasurer. All accounts rendered to or kept in the gas or electric plant of any city shall be subject to the inspection of the city auditor or officer having similar duties, and in towns they shall be subject to the inspection of the selectmen. The auditor or officer having similar duties, or the selectmen, may require any person presenting for settlement an account or claim against such plant to make oath before him or them, in such form as he or they may prescribe, as to the accuracy of such account or claim. The willful making of a false oath shall be punishable as perjury. The auditor or officer having similar duties in cities, and the selectmen in towns, shall approve the payment of all bills or payrolls of such plants before they are paid by the treasurer, and may disallow and refuse to approve for payment, in whole or in part, any claim as fraudulent, unlawful or excessive; and in that case the auditor or officer having similar duties, or the selectmen, shall file with the city or town treasurer a written statement of the reasons for the refusal; and the treasurer shall not pay any claim or bill so disallowed. This section shall not abridge the powers conferred on town accountants by sections fifty-five to sixty-one, inclusive, of chapter forty-one. The manager shall at any time, when required by the mayor, selectmen, municipal light board, if any, or department, make a statement to such officers of his doings, business, receipts, disbursements, balances, and of the indebtedness of the town in his department.

**Section 57.** At the beginning of each fiscal year, the manager of municipal lighting shall furnish to the mayor, selectmen or municipal light board, if any, an estimate of the income from sales of gas and electricity to private consumers during the ensuing fiscal year, and of the expense of the plant during said year, meaning the gross expenses of operation, maintenance and repair, the interest on the bonds, notes or certificates of indebtedness issued to pay for the plant, an amount for depreciation equal to three per cent of the cost of the plant exclusive of land and any water power appurtenant thereto, or such smaller or larger amount as the department may approve, the requirements of the sinking fund or debt incurred for the plant, and the loss, if any, in the operation of the plant during the preceding year, and of the cost, as defined in section fifty-eight, of the gas and electricity to be used by the town. The town shall include in its annual appropriations and in the tax levy not less than the estimated cost of the gas and electricity to be used by the town as above defined and estimated. By cost of the plant is intended the total amount expended on the plant to the beginning of the fiscal year for the purpose of establishing, purchasing, extending or enlarging the same. By loss in operation is intended the difference between the actual income from private consumers and the appropriations for maintenance for the preceding fiscal year and the actual expense of the plant, reckoned as above, for that year in case such expenses exceeded the amount of such income and appropriation. The income from sales and the money appropriated as aforesaid shall be used to pay the annual expense of the plant, defined as above, for the fiscal year, except that no part of the sum therein included for depreciation shall be used for any other purpose than renewals in excess of ordinary repairs, extensions, reconstruction, enlargements and additions. The surplus, if any, of said annual allowances for depreciation after making the above payments shall be kept as a separate fund and used for renewals other than ordinary repairs, extensions, reconstructions, enlargements and additions in succeeding years, and for the cost of plant, nuclear decommissioning costs, the costs of contractual commitments, and deferred costs related to such commitments which the city council, the board of selectmen, or the municipal light board, if any, determines are above market value. Said depreciation fund shall be kept and managed by the town treasurer as a separate fund, subject to appropriation by the city council or selectmen or municipal light board, if any, for the foregoing purpose. Upon his own initiative or upon the request of the city council, selectmen or municipal light board, the treasurer shall invest or deposit the same as permitted by section fifty-five A of chapter forty-four, and any income thereon shall be credited to the depreciation fund. So much of said fund as the department may from time to time approve may also be used to pay notes, bonds or certificates of indebtedness issued to pay for the cost of reconstruction or renewals in excess of ordinary repairs, when such notes, bonds or certificates of indebtedness become due. All appropriations for the plant shall be either for the annual expense defined as above, or for extensions, reconstruction, enlargements or additions; and no appropriation shall be used for any purpose other than that stated in the vote making the same. No bonds, notes or certificates of indebtedness shall be issued by a town for the annual expenses as defined in this section.

**Section 63.** A town manufacturing or selling gas or electricity for lighting shall keep records of its work and doings at its manufacturing station, and in respect to its distributing plant, as may be required by the department. It shall install and maintain apparatus, satisfactory to the department, for the measurement and recording of the output of gas and electricity, and shall sell the same by meter to private consumers when required by the department, and, if required by it, shall measure all gas or electricity consumed by the town. The books, accounts and returns shall be made and kept in a form prescribed by the department, and the accounts shall be closed annually on the last day of the fiscal year of such town, and a balance sheet of that date shall be taken therefrom and included in the return to the department. The mayor, selectmen or municipal light board and manager shall, at any time, on request, submit said books and accounts to the inspection of the department and furnish any statement or information required by it relative to the condition, management and operation of said business. The department shall, in its annual report, describe the operation of the several municipal plants with such detail as may be necessary to disclose the financial condition and results of each plant; and shall state what towns, if any, operating a plant have failed to comply with this chapter, and what towns, if any, are selling gas or electricity with the approval of the department at less than cost. The mayor, or selectmen, or municipal light board, if any, shall annually, on or before such date as the department fixes, make a return to the department, for the preceding fiscal year, signed and sworn to by the mayor, or by a majority of the selectmen or municipal light board, if any, and by the manager, stating the financial condition of said business, the amount of authorized and existing indebtedness, a statement of income and expenses in such detail as the department may require, and a list of its salaried officers and the salary paid to each. The mayor, the selectmen or the municipal light board may direct any additional returns to be made at such time and in such detail as he or they may order. Any officer of a town manufacturing or selling gas or electricity for lighting who, being required by this section to make an annual return to the department, neglects to make such annual return shall, for the first fifteen days or portion thereof during which such neglect continues, forfeit five dollars a day; for the second fifteen days or any portion thereof, ten dollars a day; and for each day thereafter not more than fifteen dollars a day. Any such officer who unreasonably refuses or neglects to make such return shall, in addition thereto, forfeit not more than five hundred dollars. If a return is defective or appears to be erroneous, the department shall notify the officer to amend it within fifteen days. Any such officer who neglects to amend said return within the time specified, when notified to do so, shall forfeit fifteen dollars for each day during which such neglect continues. All forfeitures incurred under this section may be recovered by an information in equity brought in the supreme judicial court by the attorney general, at the relation of the department, and when so recovered shall be paid to the commonwealth.

**Section 69.** The supreme judicial court for the county where the town is situated shall have jurisdiction on petition of the department or of twenty taxable inhabitants of the town to compel the fixing of prices by the town in compliance with sections fifty-seven and fifty-eight, to prevent any town from purchasing, operating or selling a gas or electric plant in violation of any provision of this chapter, and generally to enforce compliance with the terms and provisions thereof relative to the manufacture or distribution of gas or electricity by a town.



**MASSACHUSETTS MUNICIPAL WHOLESALE ELECTRIC COMPANY**  
**Suggested Note to Participant Financial Statements**  
**December 31, 2015**

Town [City] of South Hadley acting through its Light Department is a Participant in certain Projects of the Massachusetts Municipal Wholesale Electric Company (MMWEC).

MMWEC is a public corporation and a political subdivision of the Commonwealth of Massachusetts, created as a means to develop a bulk power supply for its Members and other utilities. MMWEC is authorized to construct, own or purchase ownership interests in, and to issue revenue bonds to finance, electric facilities (Projects). MMWEC has acquired ownership interests in electric facilities operated by other entities and also owns and operates its own electric facilities. MMWEC sells all of the capability (Project Capability) of each of its Projects to its Members and other utilities (Project Participants) under Power Sales Agreements (PSAs). Among other things, the PSAs require each Project Participant to pay its *pro rata* share of MMWEC's costs related to the Project, which costs include debt service on the revenue bonds issued by MMWEC to finance the Project, plus 10% of MMWEC's debt service to be paid into a Reserve and Contingency Fund. In addition, should a Project Participant fail to make any payment when due, other Project Participants of that Project may be required to increase (step-up) their payments and correspondingly their Participant's share of that Project's Project Capability to an additional amount not to exceed 25% of their original Participant's share of that Project's Project Capability. Project Participants have covenanted to fix, revise and collect rates at least sufficient to meet their obligations under the PSAs.

MMWEC has issued separate issues of revenue bonds for each of its eight Projects, which are payable solely from, and secured solely by, the revenues derived from the Project to which the bonds relate, plus available funds pledged under MMWEC's Amended and Restated General Bond Resolution (GBR) with respect to the bonds of that Project. The MMWEC revenues derived from each Project are used solely to provide for the payment of the bonds of any bond issue relating to such Project and to pay MMWEC's cost of owning and operating such Project and are not used to provide for the payment of the bonds of any bond issue relating to any other Project.

MMWEC operates the Stony Brook Intermediate Project and the Stony Brook Peaking Project, both fossil-fueled power plants. MMWEC has a 3.7% interest in the W.F. Wyman Unit No. 4 plant, which is operated and owned by its majority owner, FPL Energy Wyman IV, LLC, a subsidiary of NextEra Energy Resources LLC, and a 4.8% ownership interest in the Millstone Unit 3 nuclear unit, operated by Dominion Nuclear Connecticut, Inc. (DNCI), the majority owner and an indirect subsidiary of Dominion Resources, Inc. DNCI also owns and operates the Millstone Unit 2 nuclear unit. The operating license for the Millstone Unit 3 nuclear unit extends to November 25, 2045.

A substantial portion of MMWEC's plant investment and financing program is an 11.6% ownership interest in the Seabrook Station nuclear generating unit operated by NextEra Energy Seabrook, LLC (NextEra Seabrook) the majority owner and an indirect subsidiary of NextEra Energy Resources LLC. The operating license for Seabrook Station extends to March 15, 2030. NextEra Seabrook has submitted an application to extend the Seabrook Station operating license for an additional 20 years.

Pursuant to the PSAs, the MMWEC Seabrook and Millstone Project Participants are liable for their proportionate share of the costs associated with decommissioning the plants, which costs are being funded through monthly Project billings. Also, the Project Participants are liable for their proportionate share of the uninsured costs of a nuclear incident that might be imposed under the Price-Anderson Act (Act). Originally enacted in 1957, the Act has been renewed several times. In July 2005, as part of the Energy Policy Act of 2005, Congress extended the Act until the end of 2025.

South Hadley Electric Light Department has entered into PSAs and PPAs with MMWEC. Under both the PSAs and PPAs, the Department is required to make certain payments to MMWEC payable solely from Municipal Light Department revenues. Under the PSAs, each Participant is unconditionally obligated to make payments due to MMWEC whether or not the Project(s) is completed or operating and notwithstanding the suspension or interruption of the output of the Project(s).

MMWEC is involved in various legal actions. In the opinion of management, the outcome of such litigation or claims will not have a material adverse effect on the financial position of the company.

As of December 31, 2015,, total capital expenditures amounted to \$1,626,959,000 , of which \$54,786,000 represents the amount associated with the Department's Project Capability. MMWEC's debt outstanding for the Projects from Power Supply System Revenue Bonds totals \$112,510,000 , of which \$5,330,000 is associated with the Department's share of Project Capability. As of December 31, 2015,, MMWEC's total future debt service requirement on outstanding bonds issued for the Projects is \$121,353,000 , of which \$5,689,000 is anticipated to be billed to the Department in the future.

The aggregate amount of South Hadley Electric Light Department's required payments under the PSAs and PPAs, exclusive of the Reserve and Contingency Fund billings, to MMWEC at December 31, 2015 and estimated for future years is shown below.

	<u>ANNUAL COSTS</u>	
For years ended December 31,		
	2016	\$ 3,720,000
	2017	1,360,000
	2018	607,000
	2019	0
	<b>TOTAL</b>	<b><u>\$ 5,687,000</u></b>

In addition, under the PSAs, the Department is required to pay to MMWEC its share of the Operation and Maintenance (O&M) costs of the Projects in which it participates. The Department's total O&M costs including debt service under the PSAs were \$7,140,000 and \$7,199,000 for the years ended December 31, 2015 and 2014, respectively.

AS OF DECEMBER 31, 2015

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT  
(\$000)

PAGE 1

PROJECTS	PERCENTAGE SHARE	TOTAL PROJECT EXPENDITURES		DEBT ISSUED & OUTSTANDING		TOTAL DEBT SERVICE	
		TO DATE	PARTICIPANT'S SHARE	12/31/2015	PARTICIPANT'S SHARE	ON BONDS OUTSTANDING	PARTICIPANT'S SHARE
Stony Brook Peaking Project	-	\$ 59,332	-	-	-	-	-
Stony Brook Intermediate Project	-	174,118	-	-	-	-	-
Nuclear Mix No. 1-SBK	-	11,150	-	-	-	-	-
Nuclear Mix No. 1-MLS	-	123,182	-	-	-	-	-
Nuclear Project No. 3-MLS	18.0079	151,141	27,217	20,310	3,657	21,710	3,910
Nuclear Project No. 4-SBK	7.4000	348,576	25,795	20,950	1,550	22,257	1,647
Nuclear Project No. 5-SBK	1.8769	94,542	1,774	6,535	123	6,976	131
Wyman Project	-	8,805	-	-	-	-	-
Project No. 6-SBK	-	656,113	-	64,715	-	70,410	1
<b>TOTAL</b>		<b>\$ 1,626,959</b>	<b>\$ 54,786</b>	<b>\$ 112,510</b>	<b>\$ 5,330</b>	<b>\$ 121,353</b>	<b>\$ 5,689</b>

PROJECTS	PERCENTAGE SHARE	OPERATION & MAINTENANCE		OPERATION & MAINTENANCE	
		12/31/2014	PARTICIPANT'S SHARE	12/31/2015	PARTICIPANT'S SHARE
Stony Brook Peaking Project	-	\$ 4,648	-	\$ 3,730	-
Stony Brook Intermediate Project	-	32,241	-	40,083	-
Nuclear Mix No. 1-SBK	-	971	-	576	-
Nuclear Mix No. 1-MLS	-	8,743	-	6,369	-
Nuclear Project No. 3-MLS	18.0079	26,549	4,781	27,329	4,921
Nuclear Project No. 4-SBK	7.4000	30,617	2,266	28,086	2,078
Nuclear Project No. 5-SBK	1.8769	8,122	152	7,530	141
Wyman Project	-	3,094	-	2,591	-
Project No. 6-SBK	-	55,736	-	52,773	-
<b>TOTAL</b>		<b>\$ 170,721</b>	<b>\$ 7,199</b>	<b>\$ 169,067</b>	<b>\$ 7,140</b>

AS OF DECEMBER 31, 2015

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT  
(\$000)

PAGE 2

PROJECTS	PERCENTAGE SHARE	2016		2017		2018	
		ANNUAL COST	PARTICIPANT'S SHARE	ANNUAL COST	PARTICIPANT'S SHARE	ANNUAL COST	PARTICIPANT'S SHARE
Stony Brook Peaking Project	-	-	-	-	-	-	-
Stony Brook Intermediate Project	-	-	-	-	-	-	-
Nuclear Mix No. 1-SBK	-	-	-	-	-	-	-
Nuclear Mix No. 1-MLS	-	-	-	-	-	-	-
Nuclear Project No. 3-MLS	18.0079	14,725	2,652	3,639	655	3,346	603
Nuclear Project No. 4-SBK	7.4000	13,455	996	8,802	651	-	-
Nuclear Project No. 5-SBK	1.8769	3,857	72	2,884	54	235	4
Wyman Project	-	-	-	-	-	-	-
Project No. 6-SBK	-	30,034	-	32,417	-	503	-
TOTAL		\$ 62,071	\$ 3,720	\$ 47,742	\$ 1,360	\$ 4,084	\$ 607

PROJECTS	PERCENTAGE SHARE	2019		ANNUAL COST	PARTICIPANT'S SHARE
		ANNUAL COST	PARTICIPANT'S SHARE		
Stony Brook Peaking Project	-	-	-	-	-
Stony Brook Intermediate Project	-	-	-	-	-
Nuclear Mix No. 1-SBK	-	-	-	-	-
Nuclear Mix No. 1-MLS	-	-	-	-	-
Nuclear Project No. 3-MLS	18.0079	-	-	-	-
Nuclear Project No. 4-SBK	7.4000	-	-	-	-
Nuclear Project No. 5-SBK	1.8769	-	-	-	-
Wyman Project	-	-	-	-	-
Project No. 6-SBK	-	7,456	-	-	-
TOTAL		\$ 7,456	-	-	-

**TERMS AND CONDITIONS FOR ELECTRIC SERVICE**

THE FOLLOWING TERMS AND CONDITIONS ARE APPLICABLE TO AND MADE PART OF ALL RATE SCHEDULES. ANY SUCH TERMS AND CONDITIONS AS ARE INCONSISTENT WITH ANY SPECIFIC PROVISIONS OR ANY RATE SCHEDULE SHALL NOT APPLY THERETO.

1. The supply of electric service is contingent upon the Department's ability to secure and retain the necessary location for its poles, wires, conduit, cable and other apparatus. The character of service, to be made available at each location, will be determined by the Department and information relative thereto will be furnished by the Department on request. In general, the standard voltage supplied will be One Hundred Twenty – Two Hundred Forty (120/240) volts, single phase. Contact the Department to determine the availability of other voltages and characteristics.
2. Such wiring and other electrical equipment and apparatus as may be necessary in order to utilize the service shall be provided, installed, maintained, and used by the Customer in accordance with the requirements, if any, of the National Electric Code, and of all public authorities having jurisdiction of the same and the requirements of the Department. In general, the Department will not provide service until the Customer's wiring has been inspected and approved for energization by the Authority having Jurisdiction. The Department's *Information and Requirements for Electric Service* will be furnished upon request.
3. In general, all customers shall be served from one service location and one meter. Apartment buildings shall be served through one service, one building service meter, and individual meter(s) for each occupancy. In the case of more than one building in an apartment complex, each building service meter shall be considered an individual and separate account and will be billed separately.
4. All bills shall be due and payable upon presentation and shall be rendered monthly; however, the Department reserves the right to read meters and render bills on a bi-monthly basis. All bills of non-residential accounts, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.
5. The Department may discontinue its supply and remove its property from the premises in case the Customer fails to pay any bill due the Department for such service, after due notice thereof to the Customer, or fails to maintain his service equipment in a safe manner, or to perform any of his obligations to the Department. After such discontinuance, a reconnection fee will be charged to the Customer by the Department for restoration of service.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE

October 1, 2001

M.D.T.E. No. 80

Cancels

M.D.P.U. No. 72

Page 2 of 4

6. For the purpose of determining the amount of electricity delivered, meters shall be installed by the Department at locations to be designated by the Department. The Department, may at any time, change any of its meters.
7. The Customer shall furnish without charge, suitable locations and enclosures upon his premises for such lines, transformers, meters, and other apparatus and equipment as the Department may install for the purpose of supplying service. The Department shall have the right of access, at reasonable times, to the premises of the Customer for the purpose of installing, reading, inspecting, testing, and keeping in repair the apparatus and equipment of the Department, or for discontinuing service or for removing any or all of its apparatus and equipment or for the purpose of obtaining the necessary information for the proper application of the rate or rates under which service is supplied.
8. The Customer shall not injure, interfere, destroy or tamper with the meter or other property of the Department nor suffer or permit any person to do so. The Customer shall use all reasonable precautions to protect the property of the Department located on the premises of the Customer from damage and interference and shall be responsible for all damages to, or loss of, such property of the Department. The Customer shall so maintain and operate its electric equipment and apparatus as not to endanger or interfere with the service of the Department. Electric meters are the property of the Department. No one but authorized Department personnel shall cut and open the Department seal on a meter, remove and install a meter, install jumper pieces or other bypassing devices, remove or install sleeves, change the meter registration, or tamper in any way with the electric meter. Meters damaged accidentally or otherwise will be replaced at the expense of the property owner where the meter is located. When a meter is found to be tampered with, service to that meter will be disconnected. To have service restored, the responsible party must first pay a \$45.00 reconnection fee, payable in cash at the Department Office. All violations will be reported to the Police Department for legal prosecution. To restore service after it has been disconnected, application must be made in person at the Department's Office. In addition to the fee for tampering, a deposit will be required, which will be equivalent to three month's normal consumption on the premises in question. Service will be reconnected 24 hours after payment of the preceding fee and deposit, if the matter has been resolved to the satisfaction of the Department.
9. Whenever the integrity of the supply of electric service may be threatened by the conditions on the Department's system or on a part or parts of the transmission and/or distribution system with which the Department is interconnected, the Department, in its sole judgment, may curtail or interrupt electrical service to the Customer and such curtailment or interruption shall not constitute willful default by the Department. The Department shall not be responsible for any failure to supply electric service nor interruption or abnormal voltage of the supply, or any damage resulting from the restoration of service, if such failure, interruption, abnormal voltage, or damage is without willful default on its part.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE

October 1, 2001

M.D.T.E. No. 80  
Cancels  
M.D.P.U. No. 72  
Page 3 of 4

10. The Department shall not be liable for damage to the person or property of the Customer or any other person resulting from the use of electricity or the presence of the Department's apparatus and equipment on the Customer's premises.
11. Whenever the estimated expenditures for providing service, including but not limited to lines, apparatus and equipment, to properly supply electric service to the Customer shall exceed the projected annual revenue to be derived from said new service then, and in that event, the South Hadley Electric Light Department shall require the Customer to pay for said expenditures by either of the following methods, at the discretion of the Department:
  1. Lump sum payment at completion of installation work reimbursing the Department for said expenditures,
  2. Expenditures paid by Customer over a one-year period in twelve (12) equal monthly installments,
  3. Other methods at discretion of the DepartmentSaid payments shall be in addition to any payments for electricity at applicable rates.
12. The Department shall not be required to furnish electricity as a stand-by or to supplement electricity for a Customer's source of electricity supply other than hydro-generation.
13. No three-phase electric service shall be supplied by the Department unless electric load plans by a Registered Professional Engineer are submitted to the South Hadley Light Department and Wire Inspector and approved by said Electric Department.
14. In the case of three-phase service, where the building owner wishes the Department to supply a padmounted transformer with underground primary supply, the owner or contractor shall provide and install the foundation for the transformer and a concrete enclosed duct bank to the Department specifications with handholes if required for pulling and connections, all secondary voltage service cables and terminal fittings, meter troughs for self-contained meters, all as required by the Department, all permits and notices required by law for trenching; and will reimburse the Department for all costs in excess of its standard average installed costs for aerial service and pole-mounted transformers. The Department shall purchase and install (with Customer assistance if required) the padmounted transformer, underground primary cable and its termination, the meter(s) and instrument transformers, test switches and meter cabinets where required, primary voltage lightning arresters at riser pole, additional poles if required – all of which, except the first on private property, shall be reimbursed to the Department by the contractor.
15. Temporary service connections for new building construction purposes will be subject to a service charge covering the actual cost of installation and removal. Service supplied will be billed under the Temporary General Service – Schedule T-1. Utility-type construction

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE

October 1, 2001

M.D.T.E. No. 80  
Cancels  
M.D.P.U. No. 72  
Page 4 of 4

and wiring will not be supplied by the Department for fairs, carnivals, and other private property work.

16. The South Hadley Electric Light Department shall not be liable for, or in any way in respect of, any interruption, abnormal voltage, discontinuance or reversal of its service, due to causes beyond its immediate control whether by accident, labor difficulties, conditions of fuel supply, the attitude of any public authority, reduction in voltage, rotating of its feeders, selected blackouts, or failure to receive any electricity for which in any manner it has contracted, or due to the operation in accordance with good utility practice of any emergency load reduction program by the South Hadley Electric Light Department or one with whom it has contracted for the supply of electricity or inability for any good reason to maintain uninterrupted and continuous service; provided, however, that if the South Hadley Electric Light Department is unable for any of the causes enumerated above to supply electricity for a continued period of two (2) days or more, then upon request of the Customer, the demand charge, if any, shall be pro-rated for the number of days of such inability as it relates to the number of days in the billing month.
17. The South Hadley Electric Light Department reserves the right to withhold and/or remove electric service to loads, which adversely affect the supply to other customers. Loads that produce harmonic distortion, voltage fluctuations, noise or low power factor, are examples of loads that are potentially detrimental.
18. The Customer shall, at all times, take and use energy in such a manner that the load will be balanced between phases to within 10%. The Department reserves the right to require the Customer to make necessary changes at his expense to correct the unbalanced condition.
19. All such policies and regulations shall be consistent with the General Laws of the Commonwealth of Massachusetts, Chapter 164 in particular, and other applicable regulations and orders of the Massachusetts Department of Telecommunications and Energy.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE

October 1, 2001



## SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

### RESIDENTIAL SERVICE SCHEDULE R1

1. **AVAILABLE:**

In all areas served by the South Hadley Electric Light Department. No energy to be resold.

2. **APPLICABILITY:**

This rate is applicable to single and multiple occupancy residential customers; including individual homes, apartments, and residential occupancies. This rate will include the customer's entire requirement of electricity as measured by one meter.

3. **CHARACTER OF SERVICE:**

A.C.; 60 Hertz; Single Phase – 120, 208, 240 Volts

4. **BASE RATE (Applied Monthly):**

Delivery Services

Customer Charge	\$2.90	per month
Distribution Charge	\$0.02990	per kWh
Transmission Charge	\$0.00720	per kWh
Transition Charge	\$0.04020	per kWh

Supplier Services

Generation Charge	\$0.05400	per kWh
Transition Adjustment Charge		per kWh
NYPA Hydropower Credit		per kWh

5. **TRANSITION ADJUSTMENT CHARGE:**

On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.

6. **NYPA HYDROPOWER CREDIT**

On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the NYPA Hydropower Credit M.D.T.E. No. 89 in effect at time of billing.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

7. **MINIMUM CHARGE:**

The Minimum Charge under this schedule is the Customer Charge plus the following charge, if applicable.

A charge of \$1.00 per installed kVA transformer capacity per billing period shall be made for each kVA in excess of 5 kVA that is required by the customer. At the option of the Department, a demand type meter may be employed to measure this requirement.

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. The bill calculated will be subject to a 10% discount on the Delivery Services for payment prior to the expiration of the Discount Period, which shall extend 14 Calendar days from Date of Billing. The discount is not applicable to Supplier Services or to the Transition Adjustment Charge. The Minimum Charge, as defined under this schedule, shall be applicable at all times.

9. **SPECIAL CONDITIONS:**

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of this rate schedule, where not inconsistent with any specific provisions thereof.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

## SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

### SMALL GENERAL SERVICE

#### SCHEDULE GC1

1. **AVAILABLE:**

In all areas served by the South Hadley Electric Light Department. No energy to be resold.

2. **APPLICABILITY:**

This rate is applicable to the entire service requirement for electricity at a single metering location of any customer subject to the provisions of this section. Service under this rate schedule is available for any purpose, including commercial, municipal, and educational applications, having a monthly usage of less than 10,000 kWh and demand of less than 200 kW.

3. **CHARACTER OF SERVICE:**

A.C.; 60 Hertz; Single Phase – 120, 208, 240 Volts or  
Three Phase – 208, 480 Volts

4. **BASE RATE (Applied Monthly):**

Delivery Services

Customer Charge	\$7.00	per month
Distribution Charge	\$0.01867	per kWh
Transmission Charge	\$0.00410	per kWh
Transition Charge	\$0.05200	per kWh

Supplier Services

Generation Charge	\$0.05400	per kWh
Transition Adjustment Charge		per kWh

5. **TRANSITION ADJUSTMENT CHARGE:**

On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.

6. **MINIMUM CHARGE:**

The minimum charge under this schedule is the Customer Charge.

7. **DETERMINATION OF DEMAND:**

The demand shall be determined by suitable instruments and shall be the highest 15 minute peak occurring during the month as measured in kilowatts.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. All bills, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.

9. **SPECIAL CONDITIONS:**

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of this rate schedule, where not inconsistent with any specific provision thereof.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

## SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

### LARGE GENERAL SERVICE SCHEDULE LGS

1. **AVAILABLE:**

In all areas served by the South Hadley Electric Light Department. No energy to be resold.

2. **APPLICABILITY:**

This rate is applicable to the entire service requirement for electricity at a single metering location of any customer subject to the provisions of this section. A customer will be served under this rate if the customer's average monthly billing demand exceeds 200 kW. A customer may be transferred from this rate if the customer's 12-month average monthly demand is less than 180 kW of demand for 3 consecutive months.

3. **CHARACTER OF SERVICE:**

A.C.; 60 Hertz; Three Phase – 208, 480, 4,160, 13,800 Volts where available.

4. **BASE RATE (Applied Monthly):**

Delivery Services

Customer Charge	\$650.00	per month
Distribution Demand Charge	\$3.41	per kW
Distribution Energy Charge	\$0.00514	per kWh
Transmission Demand Charge	\$1.59	per kW
Transition Demand Charge	\$2.50	per kW
Transition Energy Charge	\$0.02600	per kWh

Supplier Services

Generation Charge	\$0.05400	per kWh
Transition Adjustment Charge		per kWh

5. **TRANSITION ADJUSTMENT CHARGE:**

On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.

6. **MINIMUM CHARGE:**

The Minimum Charge under this schedule is the Customer Charge.

7. **DETERMINATION OF DEMAND:**

The demand shall be determined by suitable instruments and shall be the greater of:

- (A) the highest 15-minute peak occurring during the month as measured in kilowatts or;

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

- (B) 90% of the highest 15-minute peak occurring during the month as measured in kilovolt-amperes

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. All bills, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.

9. **SPECIAL CONDITIONS:**

When the Department must install special transformers or other equipment to provide service for welding loads, or other highly fluctuating loads, the Department shall have the option of measuring the kilowatts and the kilovolt-amperes required by instantaneous meters and 50% of the values so found shall be used in determining the kilowatts and kilovolt-amperes used for billing.

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of the rate schedule where not inconsistent with any specific provisions hereof.

10. **SPECIAL TRANSFORMER FACILITIES:**

The Department normally provides and meters service at one voltage. When additional voltages are required, the Department, at its option, may provide, in addition to the primary voltage, a maximum of two (2) secondary voltages at the same location, and the customer will be metered at the primary voltage.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

## SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

### TRANSITION ADJUSTMENT CHARGE

When stated in the electric rate schedule, there shall be included a Transition Adjustment Charge, in addition to the other charge, representative of the purchased power charges paid by the Department.

The Transition Adjustment Charge rate per Kilowatt Hour shall be computed by utilizing the total cost of purchased power paid by the Department to its suppliers for the period, adjusted for previous period's recovery, divided by the total Kilowatt Hours of energy anticipated to be billed by the Department for the period. The Transition Adjustment Charge rate shall be calculated to the nearest thousandth of a cent (\$.00001) in the following manner:

- A Total Purchased Power cost including NEPOOL interchange charge to Accounts 555, 556, 557 and 565 (\*) for the period plus the NYPA savings calculated pursuant to M.D.T.E. No. 89, all divided by:
- B Estimated kWhs to be sold during the period will be compared to:
- C Base period cost of purchased power per kWh sold, amounting to 0.0413 per kWh sold minus
- D The Generation Charge in effect at the time.

The difference between the base cost and the annual cost per kWh estimated to be sold will be applied in the billing period. The Transition Adjustment Charge will be calculated as follows:

$$TAC = [ A/B ] - [ C+D ]$$

This calculation will normally be made on a quarterly basis and a single Transition Adjustment Charge billed for the entire quarter, although the Department may change the Transition Adjustment Charge more frequently if such changes are required.

- (\*) An adjustment to the purchased power cost shall be made to reflect the difference between estimated and actual purchased power costs and kWh sold in the prior period in order to recover or credit any under collection or over collection of purchased power charges.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

## SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

### NYPA HYDROPOWER CREDIT

#### 1. AVAILABILITY:

Residential customers will receive a credit equal to the number of kilowatt-hours billed during the period multiplied by the NYPA Hydropower Credit Rate determined as follows:

$$\text{NYPA} = \frac{(\text{GC} - (\text{NC}/\text{NK})) * \text{NK}}{\text{RK}}$$

Where

NYPA is the NYPA Hydropower Credit Rate for the period;

GC is the Generation Charge in effect for the period;

NC is the forecast total cost of hydropower from the New York Power Authority for the period;

NK is the forecast total kilowatt-hours of power purchased from the New York Power Authority for the period;

RK is the estimated number of residential kilowatt-hours to which the NYPA Hydropower Credit will be applied for the period.

This calculation will normally be made on a quarterly basis and a single NYPA Hydropower Credit billed for the entire quarter, although the Department may change the NYPA Hydropower Credit more frequently if such a change is required.

Adjustments shall be made to reflect differences between estimated and actual hydropower costs and residential kWh sold in the prior period in order to recover or credit any under collection or over collection of hydropower savings.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001



## SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

### GENERAL SERVICE DEMAND SCHEDULE GSD

1. **AVAILABLE:**

In all areas served by the South Hadley Electric Light Department. No energy to be resold.

2. **APPLICABILITY:**

This rate is applicable to the entire service requirement for electricity at a single metering location of any customer subject to the provisions of this section. A customer will be served under this rate if the customer's average monthly usage exceeds 10,000 kWh, but average monthly billing demand does not exceed 200 kW. A customer may be transferred from this rate if the customer's 12-month average monthly usage for 3 consecutive months is (a) less than 8,000 kWh/month, or (b) greater than 200 kW of demand.

3. **CHARACTER OF SERVICE:**

A.C.; 60 Hertz; Three-Phase power at 208, 480 Volts.

4. **BASE RATE (Applied Monthly):**

Delivery Services

Customer Charge	\$40.00	per month
Distribution Demand Charge	\$4.61	per kW
Distribution Energy Charge	\$0.01649	per kWh
Transmission Demand Charge	\$1.82	per kW
Transition Energy Charge	\$0.03500	per kWh

Supplier Services

Generation Charge	\$0.05400	per kWh
Transition Adjustment Charge		per kWh

5. **TRANSITION ADJUSTMENT CHARGE:**

On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.

6. **MINIMUM CHARGE:**

The minimum charge under this schedule is the Customer Charge.

7. **DETERMINATION OF DEMAND:**

The demand shall be determined by suitable instruments and shall be the highest 15 minute peak occurring during the month as measured in kilowatts.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. All bills, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.

9. **SPECIAL CONDITIONS:**

When the Department must install special transformers or other equipment to provide service for welding loads, or other highly fluctuating loads, the Department shall have the option of measuring the kilowatts and the kilovolt-amperes required by instantaneous meters and 50% of the values so found shall be used in determining the kilowatts and kilovolt-amperes used for billing.

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of the rate schedule where not inconsistent with any specific provisions hereof.

10. **SPECIAL TRANSFORMER FACILITIES:**

The Department normally provides and meters service at one voltage. When additional voltages are required, the Department, at its option, may provide, in addition to the primary voltage, a maximum of two (2) secondary voltages at the same location, and the customer will be metered at the primary voltage.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

## SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

### SECURITY LIGHTING

1. **AVAILABLE:**  
In all areas served by the South Hadley Electric Light Department.
2. **APPLICABILITY:**  
This rate is applicable for general area lighting on Private Property only.
3. **BASE RATE (Applied Monthly):**

Fixture Type	Lumens	kWh	Monthly Rate
<u>Mercury Vapor</u>			
175 Watt	7,950	71	\$11.40
*250 Watt	11,200	99	\$15.80
*400 Watt	21,000	157	\$20.60
<u>Sodium Vapor</u>			
70 Watt	6,400	35	\$ 8.50
150 Watt	16,000	67	\$13.50
250 Watt	27,500	108	\$20.30
400 Watt	50,000	166	\$31.60

\* No additional new lights of these sizes and types will be installed. These sizes and types will be replaced with similar light of sodium vapor upon failure or request.

4. **TRANSITION ADJUSTMENT CHARGE:**  
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.
5. **TERMS OF PAYMENT:**  
Bills calculated and issued under this schedule are considered due when presented.
6. **SPECIAL CONDITIONS:**  
Above rates include: Conventional type mercury or sodium vapor luminaire, map, a photoelectric control (dusk to dawn) and maintenance.  
  
Above rates do not include: Pole(s), wire, underground supply, lighting fixture of the customer's choice, or control switch.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

## SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

### TEMPRORARY GENERAL SERVICE

#### SCHEDULE T-1

1. **AVAILABLE:**

In all areas served by the South Hadley Electric Light Department. No energy to be resold.

2. **APPLICABILITY:**

This rate is applicable to the entire service requirement for electricity at a single metering location of any customer, on a temporary basis, subject to the provisions of this section. Service under this rate schedule is available for the construction of buildings or structures and any location not attached to a permanent building or structure.

3. **CHARACTER OF SERVICE:**

A.C.; 60 Hertz; Single Phase – 120, 208, 240 Volts

4. **BASE RATE (Applied Monthly):**

Delivery Services

Customer Charge	\$25.00	per month
Distribution Charge	\$0.02054	per kWh
Transmission Charge	\$0.00451	per kWh
Transition Charge	\$0.05720	per kWh

Supplier Services

Generation Charge	\$0.0594	per kWh
Transition Adjustment Charge		per kWh

5. **TRANSITION ADJUSTMENT CHARGE:**

On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.

6. **MINIMUM CHARGE:**

The minimum charge under this schedule is the Customer Charge, plus the following charge, if applicable.

A charge of \$1.00 per installed kVA transformer capacity per billing period shall be made for each kVA in excess of five (5) kVA that is required by the Customer. At the option of the Department, a demand type meter may be employed to measure this requirement.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

7. **INSTALLATION CHARGE:**

A fee of \$90.00 will apply to all temporary service installations not requiring temporary pole(s) or other supporting appurtenances. When requested, the Department will install and later remove a temporary pole and supporting appurtenances for use by the Customer as a temporary service structure for a total installation fee of \$150.00. All installation fees shall be payable in advance.

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. All bills, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.

9. **SPECIAL CONDITIONS:**

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of this rate schedule, where not inconsistent with any specific provision thereof.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

## SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

### RESIDENTIAL HEATING AND COOLING SCHEDULE RH

1. **AVAILABLE:**

In all areas served by the South Hadley Electric Light Department. No energy to be resold.

2. **APPLICABILITY:**

This rate is applicable to single and multiple occupancy residential customers with permanently installed electric comfort heating, having no other source of comfort heating available. This rate will include the customer's entire requirement of electricity as measured by one meter.

3. **CHARACTER OF SERVICE:**

A.C.; 60 Hertz; Single Phase – 120, 208, 240 Volts

4. **BASE RATE (Applied Monthly):**

Delivery Services

Customer Charge	\$2.90	per month
Distribution Charge	\$0.02990	per kWh
Transmission Charge	\$0.00720	per kWh
Transition Charge	\$0.04020	per kWh

Supplier Services

Generation Charge: December - April		
First 800 kWh	\$0.04400	per kWh
Over 800 kWh	\$0.02800	per kWh
Generation Charge: May – November		
First 800 kWh	\$0.05000	per kWh
Over 800 kWh	\$0.06000	per kWh

Seasonal Generation Charge shall be applied based on the month in which the bill is issued.

5. **TRANSITION ADJUSTMENT CHARGE:**

On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No.88 in effect at time of billing.

DATE ISSUED:

November 12, 2002

DATE EFFECTIVE:

December 1, 2002

6. **NYPA HYDROPOWER CREDIT**

On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the NYPA Hydropower Credit M.D.T.E. No. 89 in effect at time of billing.

7. **MINIMUM CHARGE:**

The Minimum Charge under this schedule is the Customer Charge plus the following charge, if applicable.

A charge of \$1.00 per installed kVA transformer capacity per billing period shall be made for each kVA in excess of 5 kVA that is required by the customer. At the option of the Department, a demand type meter may be employed to measure this requirement.

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. The bill calculated will be subject to a 10% discount on the Delivery Services for payment prior to the expiration of the Discount Period, which shall extend 14 Calendar days from Date of Billing. The discount is not applicable to Supplier Services or to the Transition Adjustment Charge. The Minimum Charge, as defined under this schedule, shall be applicable at all times.

9. **SPECIAL CONDITIONS;**

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of this rate schedule, where not inconsistent with any specific provision thereof.

DATE ISSUED:

November 12, 2002

DATE EFFECTIVE:

December 1, 2002

**SOUTH HADLEY ELECTRIC LIGHT  
DEPARTMENT**

**ECONOMIC DEVELOPMENT RIDER**

**1. AVAILABLE:**

The rider is available and applicable to the total load of a new customer or the incremental load of an expansion customer eligible to receive service under the SHELD Large General Service Schedule LGS.

**2. QUALIFICATIONS:**

The customer must qualify as either a new or expansion customer and:

1. Demonstrate to SHELD's satisfaction that it has an economically viable opportunity to locate or expand outside the Department's service area.
2. Demonstrate to SHELD's satisfaction that the discounts provided by this Rider, either alone *or* in conjunction with concessions from the State and/or Town of South Hadley, are sufficient to cause the customer to locate or add the incremental load within the Department's service area.
3. In the case of new customers, create a minimum of 12 jobs.
4. Require an average energy level of at least 150,000 kWh per month and, in the case of an expansion customer, increase load by at least 10% of the demand level established in the base period.

**3. DEFINITIONS:**

1. A new customer is a future consumer that has not been a customer of SHELD in any of the past 12 months preceding application for service under this rider. An existing facility will not be considered a new customer's location unless the facility has been vacant for a period of 2 years.
2. An expansion customer is a current LGS service recipient that has received full requirements from SHELD in the past 12 months.
3. The incremental load of a new customer is the total load. The incremental load of an expansion customer is the portion of the customer's total load, in kWh, that exceeds the customer's total load during the base period.
4. The base period is the twelve-month period immediately preceding the month in which an expansion customer becomes eligible for billing under this rider, or a 12-month period that SHELD determines reflects the customer's base level of usage.

**4. CONDITIONS:**

1. The customer shall purchase its total electric requirements from SHELD.
2. The customer must demonstrate to SHELD's satisfaction that it brings a benefit to the Town of South Hadley via increased employment, taxes, etc.
3. The expansion customer's electric energy (kWh) usage for each month must exceed by at least 10%, the energy usage in the comparable month of the base period.

DATE ISSUED:  
December 16, 2014

DATE EFFECTIVE:  
February 1, 2015



4. The Department will remove an expansion customer from the rider if, in 3 consecutive months, its kilowatt-hour energy usage is less than 10% greater than its energy usage in the corresponding months of the base period.

**5. BASE MONTHLY CHARGE:**

1. The customer's monthly demand, energy and customer charges shall be determined in accordance with the LGS rate schedule.
2. The customer will be billed a Transition Adjustment Charge as it applies to all other customers.

**6. MONTHLY DISCOUNT:**

The discount percentage will be applied to the customer's total bill for the services provided under the LGS schedule as follows:

Year 1 – 20%, Year 2 – 15%, Year 3- 10%, Year 4 – 5%, Year 5 – 0%

**7. SECURITY DEPOSIT / PAYMENT OPTION:**

In lieu of the customary security deposit, customers will be allowed to enter into an ACH Agreement whereby amounts due for electric service are deducted directly from your bank account at the time of billing. The Department may discontinue its supply and remove its property from the customers' premises should such ACH payment fail to occur.

**8. TERMS OF AGREEMENT:**

1. The Rider Discount Period is 4 years, with a contract commitment of 5 years.
2. If the customer terminates service or reduces electric load below the minimum requirements before the completion of 5 years, SHELD has a right to recover the discounted amounts.

Service is governed by the Terms and Conditions of SHELD.

DATE ISSUED:  
December 16, 2014

DATE EFFECTIVE:  
February 1, 2015