



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,

**2011**

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	14
Miscellaneous Non-operating Income	15-17
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	22
Sales of Electricity to Ultimate Consumers	22
Electric Operation and Maintenance Expenses	22
Income from Merchandising, Jobbing and Contract Work	22
Sales for Resale	37
Purchased Power	38
Interchange Power	39-42
Electric Energy Account	51
Monthly Peaks and Output	52-53
Substations	54-55
Overhead Distribution Lines Operated	56
Electric Distribution Services, Meters and Line Transformers	57
Electric Distribution Services, Meters and Line Transformers	57
Conduit, Underground Cable and Submarine Cable	68
Street Lamps	69
Rate Schedule Information	69
Signature Page	70
	71
	79
	81

### FOR GAS PLANTS ONLY:

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

**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
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
3. Name and address of manager of municipal lighting:	Wayne D. Doerholz - 3 Fairlawn Street, South Hadley, MA
4. Name and address of mayor or selectmen	Chair : Robert G. Judge - 180 North Main Street, South Hadley, MA Vice-Chair : Francis J. DeToma - 31 Ashfield Lane, South Hadley, MA Clerk : Bruce S. MacCullagh - 3 Marcel Street, South Hadley, MA Member : Marilyn G. Ishler - 58 Mountairview Street, South Hadley, MA Member : John R. Hine - 39 Chestnut Hill Road, South Hadley, MA
5. Name and address of town (or city) treasurer:	Carlene C. Hamlin - 16 Priestly Farms Road, 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:	Chairman : Cheryl Scott Nickl - 28 Pine Street, South Hadley, MA Vice-Chair : Rita M. Lawler - 76 Alford Street, South Hadley, MA Clerk : Jeffrey Labrecque - 62 Lincoln Avenue, South Hadley, MA
8. Total valuation of estates in town (or city) according to last state valuation:	\$1,477,331,320
9. Tax rate for all purposes during the year: Fiscal 2012	Town - \$14.73, Fire District 1 - \$2.05, Fire District 2 - \$2.55
10. Amount of manager's salary:	\$119,997
11. Amount of manager's bond:	\$ 20,000
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

INCOME FROM PRIVATE CONSUMERS:	
1	FROM SALES OF GAS
2	FROM SALE OF ELECTRICITY
3	FROM RATE STABILIZATION FUND
4	Totals
0	
5	<b>Expenses:</b>
6	For operation, maintenance and repairs
7	For interest on bonds, notes or scrip
8	For depreciation fund
9	For sinking fund requirements
10	For note payments
11	For bond payments
12	For loss in preceding year
13	
14	Totals
1,704,008	
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
19	Of electricity to be used for street lights
20	Total of the above items to be included in the tax levy
636,072	
101,955	
738,027	
21	
22	New construction to be included in the tax levy
23	Total amounts to be included in the tax levy
738,027	

CUSTOMERS		
Names of cities of towns in which the plant supplies GAS, with the number of customers' meters in each	Number of Customers' Meters, December 31.	Names of cities of towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each
City or Town		City or Town
None	None	South Hadley
		Granby
		Hadley
		Holyoke
		Totals
		7,666
		40
		9
		1
		7,716

**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:		2008	, to be paid from {
* At meeting	2008	, to be paid from {	
* At meeting			
FOR THE ESTIMATED COST OF THE GAS OR ELECTRICITY TO BE USED BY THE CITY OR TOWN FOR:			
1. Street Lights			101,955
2. Municipal Buildings			638,072
		<b>TOTAL</b>	<b>738,027</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:

In gas property:

**BONDS**

(Issued on Account of Gas or Electric Lighting)

When Authorized	Date of Issue	Amount of Original Issue	Amounts	Period of Payments	When Payable	Rate	Interest	When Payable	Amount Outstanding
SEE ATTACHMENT A - MMWEC	January 1, 1915	\$ 40,000							
	January 1, 1915	\$ 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	Amounts	Period of Payments	When Payable	Rate	Interest	When Payable	Amount Outstanding
NONE		0							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 or 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)	(b)	(c)	(d)	(e)	(f)	(g)
		Beginning of Year	Additions	Retirements	Adjustments	Transfers	Balance End of Year	
1	1. INTANGIBLE PLANT	0	0	0	0	0	0	0
2								
3								
4								
5	2. PRODUCTION PLANT	0	0	0	0	0	0	0
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	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	0

TOTAL COST OF PLANT - ELECTRIC (Continued)

Line No.	Account	(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Balance Beginning of Year	Additions	Retirements	Adjustments	Transfers	Balance End of Year	
1	C. Hydraulic Production Plant							
2	330 Land and Land Rights							
3	331 Structures and Improvements							
4	332 Reservoirs, Dams and Waterways							
5	333 Water wheels, Turbines and Generators							
6	334 Accessory Electric Equipment							
7	335 Miscellaneous Power Plant Equipment							
8	336 Roads, Railroads and Bridges							
9	Total Hydraulic Production Plant	0	0	0	0	0	0	0
10	D. Other Production Plant							
11	340 Land and Land Rights							
12	341 Structures and Improvements							
13	342 Fuel Holders, Producers and Accessories							
14	343 Prime Movers							
15	344 Generators							
16	345 Accessory Electric Equipment							
17	346 Miscellaneous Power Plant Equipment							
18	Total Other Production Plant	0	0	0	0	0	0	0
19	Total Production Plant	0	0	0	0	0	0	0
20	3. TRANSMISSION PLANT							
21	350 Land and Land Rights							
22	351 Clearing Land and Rights of Way							
23	352 Structures and Improvements							
24	353 Station Equipment							
25	354 Towers and Poles							
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	Total Transmission Plant	0	0	0	0	0	0	0

Line No.	Account	Balance Beginning of Year	Additions	Retirements	Adjustments	Transfers	Balance End of Year
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	<b>4. DISTRIBUTION PLANT</b>						
2	360 Land and Land Rights						
3	361 Structures and Improvements						
4	362 Station Equipment	5,755,861	27,604				5,783,465
5	363 Storage Battery Equipment						
6	364 Poles, Towers and Fixtures	1,827,302	22,988	10,281			1,840,009
7	365 Overhead Conductors and Devices	6,557,642	1,176,549				7,734,191
8	366 Underground Conducts	2,941,196	3,219				2,944,415
9	367 Underground Conductors & Devices	3,814,544	5,719	18,320			3,801,943
10	368 Line Transformers	1,881,920	24,976	1,900			1,904,996
11	369 Services	752,506	11,526				764,031
12	370 Meters	1,878,643	17,822				1,896,465
13	371 Installation on Cust's Premises	1,045,370	32,777				1,078,147
14	372 Leased Prop. on Cust's Premises	239,596					239,596
15	373 Street Light and Signal Systems	1,171,579	25,786				1,197,365
16	<b>Total Distribution Plant</b>	<b>27,866,158</b>	<b>1,348,988</b>	<b>30,501</b>	<b>0</b>	<b>0</b>	<b>29,184,623</b>
17	<b>5. GENERAL PLANT</b>						
18	389 Land and Land rights	333,358	8,175				333,358
19	390 Structures and Improvements	756,832	5,423				765,007
20	391 Office Furniture and Equipment	868,241					873,664
21	392 Transportation Equipment	1,583,842	37,368				1,621,210
22	393 Stores Equipment	28,701					28,701
23	394 Tools, Shop and Garage Equipment	393,188					393,188
24	395 Laboratory Equipment	119,298					119,298
25	396 Power Operated Equipment	138,939	298				138,939
26	397 Communication Equipment	112,916					113,214
27	398 Miscellaneous Equipment	48,448					48,448
28	399 Other Tangible Property	718,836	75,045				793,881
29	<b>Total General Plant</b>	<b>5,102,599</b>	<b>128,309</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,228,908</b>
30	<b>Total Electric Plant in Service</b>	<b>32,968,757</b>	<b>1,475,275</b>	<b>30,501</b>	<b>0</b>	<b>0</b>	<b>34,413,531</b>
31							
32							
33							
34							

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.

TOTAL COST OF PLANT - ELECTRIC (Continued)

**COMPARATIVE BALANCE SHEET Assets and Other Debits**

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	<b>UTILITY PLANT</b>			
2	101 Utility Plant -Electric	8,142,565	7,794,013	(348,552)
3	101 Utility Plant- Gas			
4	123 Investment in Associated Companies			
5	<b>Total Utility Plant</b>	<b>8,142,565</b>	<b>7,794,013</b>	<b>(348,552)</b>
6				
7				
8				
9				
10				
11	<b>FUND ACCOUNTS</b>			
12	125 Sinking Funds			
13	126 Depreciation Fund (P. 14)	2,284,089	2,650,764	366,675
14	128 Other Special Funds	12,639,075	12,007,834	(631,241)
15	<b>Total Funds</b>	<b>14,923,164</b>	<b>14,658,598</b>	<b>(264,566)</b>
16	<b>CURRENT AND ACCRUED ASSETS</b>			
17	131 Cash (P. 14)	1,206,213	2,173,602	967,389
18	132 Special Deposits	126,050	146,500	20,450
19	132 Working Funds	899,519	899,519	0
20	141 Notes and Receivables			
21	142 Customer Accounts Receivable	1,118,977	1,408,479	289,502
22	143 Other Accounts Receivable			
23	146 Receivables from Municipality	461,601	473,607	12,006
24	151 Materials and Supplies (P. 14)			
25				
26	165 Prepayments	167,185	117,235	(49,950)
27	174 Miscellaneous Current Assets			
28	<b>Total Current and Accrued Assets</b>	<b>4,079,545</b>	<b>5,318,942</b>	<b>1,239,397</b>
29	<b>DEFERRED DEBITS</b>			
30	181 Unamortized Debt Discount			
31	182 Extraordinary Property Debits			
32	185 Other Deferred Debits			
33	<b>Total Deferred Debits</b>			
34				
35	<b>Total Assets and Other Debits</b>	<b>27,145,274</b>	<b>27,771,553</b>	<b>626,279</b>

COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	<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)	22,668,590	22,785,115	116,525
8	<b>Total Surplus</b>	22,668,590	22,785,115	116,525
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	531,372	828,347	296,975
15	234 Payables to Municipality			
16	235 Customer Deposits	126,050	146,500	20,450
17	236 Taxes Accrued			
18	237 Interest Accrued	15,199	16,562	1,363
19	242 Miscellaneous Current and Accrued Liabilities	672,621	991,409	318,788
20	<b>Total Current and Accrued Liabilities</b>			
21	<b>DEFERRED CREDITS</b>			
22	251 Unamortized Premium on Debt			
23	252 Customer Advance for Construction	1,050,466	1,221,302	160,836
24	253 Other Deferred Credits	1,050,466	1,221,302	160,836
25	<b>Total Deferred Credits</b>			
26	<b>RESERVES</b>			
27	260 Reserves for Uncollectible 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	2,743,597	2,773,727	30,130
35	<b>Total Liabilities and Other Credits</b>	27,145,274	27,771,553	626,279

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.

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

12  
YEAR ENDED DECEMBER 31, 2011

STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Current Year	Increase or (Decrease) from Preceding Year
<b>OPERATING INCOME</b>			
1			
2	400 Operating Revenue (P. 37 and P. 43)	16,073,621	(714,966)
3	<b>Operating Expenses:</b>		
4	401 Operation Expense (P. 42)	13,961,748	(636,707)
5	402 Maintenance Expense (P. 42)	383,620	47,262
6	403 Depreciation Expense	1,631,770	26,573
7	407 Amortization of Property Losses		
8			
9	408 Taxes (P. 46)		
10	<b>Total Operating Expenses</b>	15,987,136	(562,872)
11	Operating Income	86,482	(152,094)
12	414 Other Utility Operating Income (P.50)		
13			
14	<b>Total Operating Income</b>	86,482	(152,094)
15	<b>OTHER INCOME</b>		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)		
17	419 Interest Income	135,452	913
18	421 Miscellaneous Income		
19	<b>Total Other Income</b>	135,452	913
20	<b>Total Income</b>	221,934	(151,181)
21	<b>MISCELLANEOUS INCOME DEDUCTIONS</b>		
22	425 Miscellaneous Amortization		
23	426 Other Income Deductions		
24	<b>Total Income Deductions</b>		
25	<b>Income before Interest Charges</b>		
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>	221,934	(151,181)
<b>EARNED SURPLUS</b>			
Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of Period)		22,668,590
35			
36			
37	433 Balance transferred from Income		221,934
38	434 Miscellaneous Credits to Surplus		
39	435 Miscellaneous Debits to Surplus	105,409	
40	436 Appropriations of Surplus (P.21)		
41	437 Surplus Applied to Depreciation		
42	208 Unappropriated Earned Surplus (at end of period)	22,785,115	
43			
44	<b>Totals</b>	<b>22,890,524</b>	<b>22,890,524</b>

CASH BALANCES AT END OF YEAR (Account 131)

Line No.	Items (a)	Amount (b)
1	Operation Fund	
2	Interest Fund	
3	Bond Fund	
4	Construction Fund	
5		
6		
7		
8		
9		
10		
11		
12	Totals	2,173,602

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

Line No.	Account (a)	Amount End of Year	
		Electric (b)	Gas (c)
13	Fuel (Account 151) (See Schedule, Page 25)		
14	Fuel Stock Expenses (Account 152)		
15	Residuals (Account 153)		
16	Plant Materials and Operating Supplies (Account 154)	473,607	
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	Total per Balance Sheet	473,607	0

DEPRECIATION FUND ACCOUNT (Account 126)

Line No.	Account (a)	Amount (b)
	<b>DEBITS</b>	
25	Balance of Account at Beginning of Year	2,284,099
26	Income During Year from Balance on Deposit	1,631,770
27	Amount Transferred from Income	3,915,859
28		
29		
30		
31	<b>CREDITS</b>	
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.)	821,924
32	Amounts Expended for Renewals	403,802
33	Adjustment: Retirements	(30,501)
34	Adjustments: Contributions in Aid of Construction	(30,130)
35		
36		
37		
38		
39	Balance on Hand at End of Year	2,650,764
40	Totals	3,915,859



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)	(b)	(c)	(d)	(e)	(f)	(g)
		Balance Beginning of Year	Additions	Depreciation	Other Credits	Adjustments Transfers	Balance End of Year	
1	1. INTANGIBLE PLANT							
2								
3								
4		0	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 Turbo-generator Units							
12	315 Accessory Electric Equipment							
13	316 Miscellaneous Power Plant Equipment							
15	Total Steam Production Plant	0	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 Turbo-generator Units							
21	324 Accessory Electric Equipment							
22	325 Miscellaneous Power Plant Equipment							
23	Total Nuclear Production Plant	0	0	0	0	0	0	0



UTILITY PLANT - ELECTRIC (Continued)

Line No.	Account	(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Balance Beginning of Year	Additions	Depreciation	Other Credits	Adjustments Transfers	Balance End of Year	
1	C. Hydraulic Production Plant							
2	330 Land and Land Rights							
3	331 Structures and Improvements							
4	332 Reservoirs, Dams and Waterways							
5	333 Water wheels, Turbines and Generators							
6	334 Accessory Electric Equipment							
7	335 Miscellaneous Power Plant Equipment							
8	336 Roads, Railroads and Bridges							
9	Total Hydraulic Production Plant	0	0	0	0	0	0	0
10	D. Other Production Plant							
11	340 Land and Land Rights							
12	341 Structures and Improvements							
13	342 Fuel Holders, Producers and Accessories							
14	343 Prime Movers							
15	344 Generators							
16	345 Accessory Electric Equipment							
17	346 Miscellaneous Power Plant Equipment							
18	Total Other Production Plant	0	0	0	0	0	0	0
19	Total Production Plant	0	0	0	0	0	0	0
20	3. TRANSMISSION PLANT							
21	350 Land and Land Rights							
22	351 Clearing Land and Rights of Way							
23	352 Structures and Improvements							
24	353 Station Equipment							
25	354 Towers and Fixtures							
26	355 Poles and Fixtures							
27	356 Overhead Conductors and Devices							
28	357 Underground Conduits							
29	358 Underground Conductors and Devices							
30	359 Roads and Trails							
31	Total Transmission Plant	0	0	0	0	0	0	0

Line No.	Account	(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Balance Beginning of Year	Additions	Depreciation	Other Credits	Adjustments Transfers	Balance End of Year	
1	<b>4. DISTRIBUTION PLANT</b>							
2	360 Land and Land Rights							
3	361 Structures and Improvements							
4	362 Station Equipment	3,895,917	27,604	287,793			3,795,728	
5	363 Storage Battery Equipment							
6	364 Poles, Towers and Fitures	13,020	22,988	13,019		10,281	12,708	
7	365 Overhead Conductors and Devices	148,961	167,712	148,962			1,176,548	
8	366 Underground Conducts	236,502	3,219	147,186			92,535	
9	367 Underground Conductors & Devices	1,109,253	5,719	564,154		18,320	532,498	
10	368 Line Transformers	207,980	24,976	94,096		1,900	136,960	
11	369 Services	69,921	11,526	37,825			43,622	
12	370 Meters	513,767	17,822	93,932			437,657	
13	371 Installation on Cust's Premises	402,357	32,777	52,269			362,865	
14	372 Leased Prop. on Cust's Premises							
15	373 Street Light and Signal Systems	264,120	25,786	58,579			231,327	
16	<b>Total Distribution Plant</b>	6,961,798	340,129	1,497,615		30,501	6,782,648	
17	<b>5. GENERAL PLANT</b>							
18	389 Land and Land rights	333,358	8,175	14,223			333,358	
19	390 Structures and Improvements	14,223	5,423	28,961			8,175	
20	391 Office Furniture and Equipment	28,962	5,423	28,961			5,424	
21	392 Transportation Equipment	7,155	37,968	7,156			37,367	
22	393 Stores Equipment							
23	394 Tools, Shop and Garage Equipment							
24	395 Laboratory Equipment	15,000		11,930			3,070	
25	396 Power Operated Equipment							
26	397 Communication Equipment		298				298	
27	398 Miscellaneous Equipment							
28	399 Other Tangible Property	601,172	402	71,885			604,331	
29	<b>Total General Plant</b>	999,870	51,666	134,155		0	992,023	
30	<b>Total Electric Plant in Service</b>	7,961,668	391,795	1,631,770		30,501	7,774,671	
31	104 Utility Plant leased to Others							
32	105 Property Held for Future Use							
33	107 Construction Work in Progress	180,897	921,924				19,342	
34	108 Accumulated Depreciation	8,142,565	1,313,719	1,631,770		30,501	7,794,013	

## UTILITY PLANT - ELECTRIC (Continued)

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY		YEAR ENDED DECEMBER 31, 2011	
MISCELLANEOUS NON-OPERATING INCOME (Account 421)			
Line No.	Item (a)	Amount (b)	
1			
2			
3			
4			
5			
6	Total		0
OTHER INCOME DEDUCTIONS (Account 426)			
Line No.	Item (a)	Amount (b)	
7			
8			
9			
10			
11			
12			
13			
14	Total		0
MISCELLANEOUS CREDITS TO SURPLUS (Account 434)			
Line No.	Item (a)	Amount (b)	
15			
16			
17			
18			
19			
20			
21			
22			
23	Total		0
MISCELLANEOUS DEBITS TO SURPLUS (Account 435)			
Line No.	Item (a)	Amount (b)	
24	Operating Transfer to Town of South Hadley		105,408
25			
26			
27			
28			
29			
30			
31			
32	Total		105,408
APPROPRIATIONS OF SURPLUS (Account 436)			
Line No.	Item (a)	Amount (b)	
33			
34			
35			
36			
37			
38			
39			
40	Total		0

**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					
3	482				
4		Totals			
Line No.		Electric Schedule	K.W.H.	Revenue Received	Average Revenue per K.W.H. (cents) [0.0000]
		(a)	(b)	(c)	(d)
5					
6	444	Municipal (Other Than Street Lighting)	5,650,347	806,164	14.2675
7					
8		Totals	5,650,347	806,164	14.2675
9					
10		Street Lighting	960,792	88,797	9.2420
11					
12		Totals	960,792	88,797	9.2420
13					
14					
15		Totals	8,611,139	894,961	13.5372

**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)
16	PASNY via MWVEC	Pine Shed 115 KV	6,507,694	75,166	1.1550
17	Millstone 3	Pine Shed 115 KV	53,778,232	4,771,724	8.8730
18	Sesbrook 4 & 5	Pine Shed 115 KV	28,531,978	2,778,589	9.7385
19	C/PSEG	Pine Shed 115 KV	864,000	50,328	5.8250
20	C/HESS	Pine Shed 115 KV	2,612,000	117,221	4.4878
21	C/NOBLE	Pine Shed 115 KV	1,346,397	62,574	4.6475
22	C/MCORE	Pine Shed 115 KV	2,204,800	113,076	5.1286
23	C/DOMIN	Pine Shed 115 KV	447,988	18,144	4.0500
24					
25		Totals	96,293,099	7,986,822	8.2943

**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)	(d)	(e)
26					
27					
28					
29					
30					
31		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 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.

	Operating Revenues	Kilowatt-hours Sold	Average Number of Customers per Month
--	--------------------	---------------------	---------------------------------------

Line No.	Account	(a)		
		Increase or (Decrease) from Preceding Year	Amount for Year	(Decrease) from Preceding Year
		(e)	(d)	(c)
		Increase or (Decrease) from Preceding Year	Amount for Year	Increase or (Decrease) from Preceding Year
		(e)	(d)	(c)
		Number for Year	Number for Year	Increase or (Decrease) from Preceding Year
		(f)	(g)	(g)

Line No.	Account	(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Increase or (Decrease) from Preceding Year	Amount for Year	(Decrease) from Preceding Year	Amount for Year	Increase or (Decrease) from Preceding Year	Number for Year	Increase or (Decrease) from Preceding Year
		(e)	(b)	(c)	(d)	(e)	(f)	(g)
		Increase or (Decrease) from Preceding Year	Amount for Year	(Decrease) from Preceding Year	Amount for Year	Increase or (Decrease) from Preceding Year	Number for Year	Increase or (Decrease) from Preceding Year
		(e)	(b)	(c)	(d)	(e)	(f)	(g)
		Number for Year	Number for Year	Increase or (Decrease) from Preceding Year	Number for Year	Increase or (Decrease) from Preceding Year	Increase or (Decrease) from Preceding Year	Increase or (Decrease) from Preceding Year
		(f)	(g)	(g)	(g)	(g)	(g)	(g)
1	440 Residential Sales	8,498,576	(342,270)	61,181,435	357,864	6,898		13
2	442 Commercial and Industrial Sales:							
3	Small (or Commercial) see instr. 5	2,559,895	(64,641)	17,431,041	330,136	757		1
4	Large (or Industrial) see instr. 5	3,941,925	(230,177)	32,484,598	(329,060)	13		1
5	444 Municipal Sales (P 22)	894,961	(43,233)	6,611,139	(122,298)	48		1
6	445 Other Sales to Public Authorities							
7	446 Sales to Railroads and Railways							
8	448 Interdepartmental Sales							
9	449 Miscellaneous Electric Sales	66,959	(3,541)	336,748	(6,468)	278		(3)
10	447 Sales for Resale							
11	Total Sales to Ultimate Consumers	15,982,318	(683,862)	118,054,961	230,154	7,994		13
12	447 Sales for Resale	0	0			0		
13	Total Sales of Electricity	15,982,318	(683,862)	118,054,961	230,154	7,994		13
14	OTHER OPERATING REVENUES							
15	450 Forfeited Discounts							
16	451 Miscellaneous Service Revenues	32,777	(30,935)					
17	453 Sales of Water and Water Power							
18	454 Rent from Electric Property	78,528	(168)					
19	455 Interdepartmental Rents							
20	456 Other Electric Revenues							
21								
22								
23	Miscellaneous Adjustments to Sales							
24								
25	Total Other Operating Revenues.....	111,305	(31,103)					
26	Total Electric Operating Revenues:	16,073,621	(714,965)					
				117,094,169				
				1,728,443				
				Total KWH to which applied				

## ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

YEAR ENDED DECEMBER 31, 2011

## 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 filled 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	
		(a)	(b)	(c)	(d)	(e)	(f)	
1	440	Residential - General	42,110,868	5,989,714	14.2237	N/A	5,274	
2		Residential - Heating	13,725,815	1,757,583	12.8048	N/A	1,134	
3		Residential - With Water Heating	5,354,954	751,289	14.0300	N/A	490	
4	442	Commercial - Small	17,431,041	2,559,895	14.6858	N/A	757	
5		Industrial	32,484,598	3,941,925	12.1348	N/A	13	
6	444	Municipal - General	5,650,347	808,184	14.2675	N/A	47	
7		Municipal - Street Lights	960,792	88,797	9.2420	N/A	1	
8	449	Miscellaneous	336,748	66,959	19.8940	N/A	278	
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								
43								
44								
45								
46								
47								
48	Total Sales to Ultimate Consumers ( Page 37 Line 11 )			118,054,981	15,962,316	13.5211	N/A	7,994
49								

**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 (b)	Increase or (Decrease) from Preceding Year (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			
22	<b>NUCLEAR POWER GENERATION</b>		
23	<b>Operation:</b>		
24	517 Operation supervision and engineering		
25	518 Fuel		
26	519 Coolants and water		
27	520 Steam expense		
28	521 Steam from other sources		
29	522 Steam transferred - Cr		
30	523 Electric expenses		
31	524 Miscellaneous nuclear power expenses		
32	525 Rents		
33	<b>Total Operation</b>	0	0
34	<b>Maintenance:</b>		
35	528 Maintenance supervision and engineering		
36	529 Maintenance of structures		
37	530 Maintenance of reactor plant equipment		
38	531 Maintenance of electric plant		
39	532 Maintenance of miscellaneous nuclear plant		
40	<b>Total Maintenance</b>	0	0
41	<b>Total power production expenses - nuclear power</b>	0	0
42			
43	<b>HYDRAULIC POWER GENERATION</b>		
44	<b>Operation:</b>		
45	535 Operation supervision and engineering		
46	536 Water for power		
47	537 Hydraulic expenses		
48	538 Electric expenses		
49	539 Miscellaneous hydraulic power generation expenses		
50	540 Rents		
51	<b>Total Operation</b>	0	0

(continued on page 40)



## ELECTRIC OPERATION AND MAINTENANCE EXPENSES (Continued)

Line No.	Account	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
	(a)		
1	<b>HYDRAULIC POWER GENERATION - CONTINUED</b>		
2	Maintenance:		
3	541 Maintenance Supervision and Engineering		
4	542 Maintenance of Structures		
5	543 Maintenance of Reservoirs, Dams and Waterways		
6	544 Maintenance of Electric Plant		
7	545 Maintenance of Miscellaneous Hydraulic Plant		
8	Total Maintenance	0	0
9	Total Power Production Expenses - Hydraulic Power	0	0
10	<b>OTHER POWER GENERATION</b>		
11	Operation:		
12	546 Operation Supervision and Engineering		
13	547 Fuel		
14	548 Operation Expenses		
15	549 Miscellaneous Other Power Generation Expenses		
16	550 Rents		
17	Total Operation	0	0
18	Maintenance:		
19	551 Maintenance Supervision and Engineering		
20	552 Maintenance of Structure		
21	553 Maintenance of Generating and Electric Plant		
22	554 Maintenance of Miscellaneous Other Power Generation Plant		
23	Total Maintenance	0	0
24	Total Power Production Expenses - Other Power	0	0
25	<b>OTHER POWER SUPPLY EXPENSES</b>		
26	555 Purchased Power	10,604,389	(448,650)
27	556 System Control and Load Dispatching		
28	557 Other Expenses	155,841	12,659
29	Total Other Power Supply Expenses	10,760,240	(435,991)
30	Total Power Production Expenses	10,760,240	(435,991)
31	<b>TRANSMISSION EXPENSES</b>		
32	Operation:		
33	560 Operation Supervision and Engineering		
34	561 Load Dispatching		
35	562 Station Expenses		
36	563 Overhead Line Expenses		
37	564 Underground Line Expenses		
38	565 Transmission of Electricity by Others	1,434,370	(102,837)
39	566 Miscellaneous Transmission Expenses		
40	567 Rents		
41	Total Operation	1,434,370	(102,837)
42	Maintenance:		
43	568 Maintenance Supervision and Engineering		
44	569 Maintenance of Structures		
45	570 Maintenance of Station Equipment		
46	571 Maintenance of Overhead Lines		
47	572 Maintenance of Underground Lines		
48	573 Maintenance of Miscellaneous Transmission Plant		
49	Total Maintenance	0	0
50	Total Transmission Expenses	1,434,370	(102,837)



## ELECTRIC OPERATION AND MAINTENANCE EXPENSES (Continued)

Line No.	Account	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
	(a)		
	<b>DISTRIBUTION EXPENSES</b>		
1	Operation:		
2	580 Operation Supervision and Engineering	49,910	(4,310)
3	581 Load Dispatching	7,453	(2,203)
4	582 Station Expenses	202,247	(43,948)
5	583 Overhead Line Expenses	35,776	1,162
6	584 Underground Line Expenses	32,526	32,526
7	585 Street Lighting and Signal System Expenses	997	(28,623)
8	586 Meter Expenses	59,947	4,861
9	587 Customer Installations Expenses	78,117	8,441
10	588 Miscellaneous Distribution Expenses		
11	589 Rents		
12	589 Rents	455,973	(32,094)
13	<b>Total Operation</b>		
14	<b>Maintenance:</b>		
15	590 Maintenance supervision and engineering	49,910	(4,217)
16	591 Maintenance of Structures		
17	592 Maintenance of Station Equipment	7,954	5,223
18	593 Maintenance of Overhead Lines	174,741	65,657
19	594 Maintenance of Underground Lines	14,888	(13,871)
20	595 Maintenance of Line Transformers	252	(3,937)
21	596 Maintenance of Street Lighting and Signal Systems	26,822	(6,250)
22	597 Maintenance of Meters	13,434	3,729
23	598 Maintenance of Miscellaneous Distribution Plant		
24	<b>Total Maintenance</b>	287,981	46,334
25	<b>Total Distribution Expenses</b>	754,954	14,240
26	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
27	Operation:		
28	901 Supervision		
29	902 Meter Reading Expenses	19,144	1,047
30	903 Customer Records and Collection Expenses	172,489	(1,616)
31	904 Uncollectible Accounts	60,336	(6,137)
32	905 Miscellaneous Customer Accounts Expenses		
33	<b>Total Customer Accounts Expenses</b>	251,969	(6,706)
34	<b>SALES EXPENSES</b>		
35	Operation:		
36	911 Supervision		
37	912 Demonstrating and Selling Expenses		
38	913 Advertising Expenses	43,149	10,637
39	916 Miscellaneous Sales Expense		
40	<b>Total Sales Expenses</b>	43,149	10,637
41	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
42	Operation:		
43	920 Administrative and General Salaries	196,500	(1,310)
44	921 Office Supplies and Expenses	33,755	(16,049)
45	922 Administrative Expenses Transferred - Cr		
46	923 Outside Services Employed	89,456	(72,651)
47	924 Property Insurance	40,157	(968)
48	925 Injuries and Damages	30,886	(3,868)
49	926 Employees Pensions and Benefits	531,227	6,236
50	928 Regulatory Commission Expenses		
51	929 Duplicate Charges - Cr		
52	930 Miscellaneous General Expenses	83,064	18,935
53	931 Rents		
54	<b>Total Operation</b>	1,005,047	(69,715)

**ELECTRIC OPERATION AND MAINTENANCE EXPENSES (Continued)**

Line No.	Account	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
(a)			
1	<b>ADMINISTRATIVE EXPENSES</b>		
2	Maintenance:		
3	932 Maintenance of General Plant	90,046	11,046
4	933 Transportation expense	15,583	(10,117)
5	<b>Total Maintenance</b>	105,639	928
6	<b>Total Administrative and General Expenses</b>	1,110,896	(88,787)
7	<b>Total Electric Operation and Maintenance Expenses</b>	14,355,368	(589,444)

**SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES**

Line No.	Functional Classification	OPERATION (b)	MAINTENANCE (c)	TOTAL (d)
(a)				
8	<b>Power Production Expenses</b>			
9	Electric Generation			
10	Steam Power			
11	Nuclear Power			
12	Hydraulic Power			
13	Other Power	10,760,240		10,760,240
14	Other Power Supply Expenses			
15	<b>Total Power Production Expenses</b>	10,760,240		10,760,240
16	Transmission Expenses	1,434,370		1,434,370
17	Distribution Expenses	466,973	287,861	754,954
18	Customer Accounts Expenses	251,969		251,969
19	Sales Expenses	43,149		43,149
20	Administrative and General Expenses	1,005,047	105,639	1,110,686
21	Power Production Expenses			
22	<b>Total Electric Operation and Maintenance Expenses</b>	13,961,748	393,620	14,355,368

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)

24 Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts

25 Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees)

99.46%

1,129,850

14

**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 (c)	Gas Department (d)	Other Utility Department (d)	Total (e)
1	Revenues:				
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	Costs and Expenses:				
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					
46					
47					
48					
49					
50	<b>Total Costs and Expenses</b>	0	0	0	0
51	<b>Net Profit (or Loss)</b>	0	0	0	0

SALES FOR RESALE (Account 447)

1. Report sales during year to other electric utilities and to cities or other public authorities for distribution to ultimate consumers.
2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Municipalities, (4) R.E.A., Cooperatives, and (5) other public authorities. For each sale designate statistical classification in column (b), thus: firm power, FP; dump or surplus power, DP; other G, and place an "x" in column (c) if sale involves export across a state line.
3. Report separately firm, dump, and other power sold to the same utility. Describe the nature of any sales classified as other power, column (b).
4. If delivery is made at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; customer owned or leased, CS.

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

SALES FOR RESALE (Account 447) (Continued)

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

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

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

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

Type of Demand Reading	Voltage at which Delivered	Kilowatt-Hours	Revenue (Omit Cents)				Revenue per Kwh (cents) [0.0000]	Line No.	
			Demand Charges	Energy Charges	Other Charges	Total			
(l)	(j)	(k)	(i)	(m)	(n)	(o)	(p)		
/									
Totals			0	0	0	0	0	0.0000	34
35									



**PURCHASED POWER (Account 555) (Continued)**

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.  
 (except interchange power) should be furnished whether or not used in the determination of demand charges. Show in column (f) 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 should be furnished whether or not used in the determination of demand charges. Show in column (f) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).
6. The number of kilowatt hours purchased should be the quantities shown by the power bills.
7. Explain any amount entered in column (n) such as fuel or other adjustments.

Type of Demand Reading	Voltage at which Delivered	Kilowatt-Hours	Capacity Charges	Cost of Energy (Omit Cents)				KWH (cents) (0.0000)	Line No.
				(j)*	(m)	(n)	(p)		
60 Min	115KV	6,507,884	43,148	32,018	75,166		1,1550	1	
60 Min	115KV	53,778,232	4,394,566	377,168	4,771,724		8,8730	2	
60 Min	115KV	28,531,978	2,540,751	237,837	2,778,588		9,7385	3	
60 Min	115KV	864,000		50,328	50,328		5,8250	4	
60 Min	115KV	2,612,000		117,221	117,221		4,4878	9	
60 Min	115KV	1,346,397		62,574	62,574		4,6475	6	
60 Min	115KV	2,204,900		113,076	113,076		5,1286	7	
60 Min	115KV	447,988		18,144	18,144		4,0500	8	
								8	
								10	
								11	
								12	
								13	
								14	
								15	
								16	
								15	
								18	
								19	
								20	
								21	
								22	
								23	
								24	
								25	
								26	
								27	
								28	
								29	
								30	
								31	
								32	
								32	
								34	
<b>Totals</b>				36,293,099	6,978,455	1,008,367	7,986,622	8,2943	35

Note: capacity charges are reduced by annual flush of funds for PSA power contracts



INTERCHANGE POWER (Included in Account 555)

1. Report below the Kilowatt-hours received and delivered during the year and the net charge or credit under interchange power agreements.
2. Provide subheadings and classify interchanges as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other 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,

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	ISO INTERCHANGE			115KV	125,775,040	100,535,490	25,239,550	2,617,577
2-9								
10			Totals		125,775,040	100,535,490	25,239,550	2,617,577
B. Details of Settlement for Interchange Power								
Line No.	Name of Company	Explanation						Amount
	(i)							(k)
11	NEPEX	NEPOOL Expenses						143,054
12		Energy Expenses						2,474,523
13-17								
18		Total						2,617,577



## ELECTRIC ENERGY ACCOUNT

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

Line No.	Item (a)	Kilowatt-hours (b)
<b>SOURCES OF ENERGY</b>		
1	Generation (excluding station use):	
2	Steam	
3	Gas Turbine Combined Cycle	
4	Nuclea	
5	Hydro	
6	Other	
7	Total generation	0
8	Purchases	96,293,099
9		
10	Interchanges	125,775,040
11		100,535,490
12		
13	Transmission for/by others	
14		
15	<b>TOTAL</b>	121,532,649
16		
<b>DISPOSITION OF ENERGY</b>		
17	Sales to ultimate consumers (including interdepartmental sales)	118,054,961
18	Sales for resale	
19	Energy furnished without charge	
20	Energy used by the company (excluding station use)	
21	Electric department only	216,966
22	Energy losses:	
23	Transmission and conversion losses	
24	Distribution losses	
25	Unaccounted for losses	
26	Total energy losses	3,260,702
27	Energy losses as percent of total on line 15	2.68%
28	<b>Total</b>	121,532,649

## MONTHLY PEAKS AND OUTPUT

1. Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-hours) for the combined sources of electric energy of respondent.

2. Monthly peak col. (b) should be respondent's maximum kw load as measured by the sum of its coincidental net generation and 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.

3. State type of monthly peak reading (instantaneous 15, 30, or 60 minute integrated.)

4. Monthly output should be the sum of respondent's net generation and purchases plus or minus net interchange and plus or minus net transmission or wheeling. Total should agree with line 15 above.

5. If the respondent has two or more power systems and physically connected, the information called for below should be furnished for each system.

Line No.	Month (a)	Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	Monthly Peak	
							Monthly Output (kwh) See instr. 4)	Monthly Output (g)
29	January	21,414	Monday	24	19:00	60 min	11,421,755	
30	February	20,713	Tuesday	1	19:00	60 min	10,231,920	
31	March	18,863	Monday	7	19:00	60 min	10,328,165	
32	April	16,633	Tuesday	5	21:00	60 min	8,897,716	
33	May	21,695	Tuesday	31	18:00	60 min	9,097,525	
34	June	25,091	Wednesday	8	18:00	60 min	9,869,485	
35	July	28,602	Thursday	21	18:00	60 min	12,247,110	
36	August	23,810	Monday	8	17:00	60 min	11,248,174	
37	September	20,547	Tuesday	27	20:00	60 min	9,853,863	
38	October	17,533	Thursday	27	19:00	60 min	8,467,662	
39	November	17,868	Wednesday	2	20:00	60 min	9,315,330	
40	December	19,962	Sunday	18	19:00	60 min	10,493,944	
41						Total	121,532,649	



OVERHEAD DISTRIBUTION LINES OPERATED

Line No.	Item	Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles - Beginning of Year	92.42	NCNE	92.42
2	Added During Year	0.06		0.06
3	Retired During Year	0.00		0.00
4	Miles - End of Year	92.48		92.48

5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (Kva)
16	Number at beginning of year	5,792	7,772	1,087	72,527.0
17	Additions during year:				
18	Purchased			0	0.0
19	Installed	39			
20	Associated with utility plant acquired			0	0.0
21	<b>Total additions</b>	39	59	0	0.0
22	Reduction during year:				
23	Retirements			31	0.0
24	Associated with utility plant sold				
25	<b>Total reductions</b>	24	31	0	0.0
26	<b>Number at End of Year</b>	5,807	7,800	1,087	72,527.0
27	In Stock		81	148	13,497.5
28	Locked Meters on customers' premises				
29	Inactive Transformers on System				
30	In Customers' Use		7,718	938	58,729.5
31	In Company's Use		3	1	300.0
32	<b>Number at End of Year</b>		7,800	1,087	72,527.0

**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	Miles of Conduit Bank (All sizes and Types)	Miles*	Operating voltage	Feet*	Operating Voltage	Submarine Cable	
							(e)	(f)
1	Primary Distribution	2.0472	0.6496	5kV				
2	Primary Distribution	26.7540	35.8840	15kV				
3	Secondary Distribution	19.6815	67.0065	120/240V				
4	Municipal Distribution	7.0018	15.7701	120V				
7	(1) Conductor per Cable							
29	Totals	55.4845	119.3102					0

\*Indicate number of conductors per cable.

STREET LAMPS CONNECTED TO SYSTEM										
Line No.	City or Town	Total	TYPE							
			Incandescent		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	1,889	0	0	96	80	0	0	1,511	202
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										
49										
50										
51										
52	Totals	1,889	0	0	96	80	0	0	1,511	202

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

  
Cheryl Scott Nickl, Chairman

\_\_\_\_\_  
Selectmen  
or  
Members  
of the  
Municipal  
Light  
Board

  
Rita M. Lawler, Vice-Chairman

  
Jeffrey Labrecque, 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
Holders	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, 23-38, 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 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 apparatus 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 its 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 plus 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 informant 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.

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 (formerly FPL Energy LLC), and a 4.8% ownership interest in the Millstone Unit 3 nuclear unit, operated by Dominion Nuclear Connecticut, Inc. (DNCCI), the majority owner and an indirect subsidiary of Dominion Resources, Inc. DNCCI 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) (formerly FPL Energy Seabrook LLC), the majority owner and an indirect subsidiary of NextEra Energy Resources LLC (formerly FPL Energy LLC). The operating license for Seabrook Station extends to March, 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 Power Purchase Agreements (PPAs) with MMWEC. Under both the PSAs and PPAs, the Department is required to make certain payments to MMWEC payable solely from Department revenues. Under the PSAs, each Participant is unconditionally obligated to make all 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 MMWEC management, the outcome of such actions will not have a material adverse effect on the financial position of the company.

Seven municipal light departments that are Participants under PSAs with MMWEC have submitted a demand for arbitration of a dispute relating to charges under the PSAs. MMWEC cannot predict the outcome of the arbitration demand, but in the opinion of MMWEC management, it will not have a material adverse effect on the financial position of MMWEC.

Total capital expenditures for MMWEC's Projects amounted to \$1,581,599,000, of which \$53,147,000 represents the amount associated with the Department's share of Project Capability of the Projects in which it participates, although such amount is not allocated to the Department. MMWEC's debt outstanding for the Projects includes Power Supply Project Revenue Bonds totaling \$358,420,000, of which \$18,165,000 is associated with the Department's share of Project Capability of the Projects in which it participates, although such amount is not allocated to the Department. As of December 31, 2011, MMWEC's total future debt service requirement on outstanding bonds issued for the Projects is \$380,165,000, of which \$19,063,000 is anticipated to be billed to the Department in the future.

The estimated 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, 2011 and estimated for future years is shown below.

For years ended December 31,

ANNUAL COSTS

2012	\$	3,988,000
2013		3,860,000
2014		3,724,000
2015		3,664,000
2016		2,539,000
2017 to 2020		1,288,000
TOTAL	\$	<u>19,063,000</u>

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 \$8,313,000 and \$8,251,000 for the years ended December 31, 2011 and 2010, respectively.

ATTACHMENT A  
Page 3

AS OF DECEMBER 31, 2011

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT  
(\$000)

PAGE

PROJECTS	PERCENTAGE SHARE	TOTAL PROJECT EXPENDITURES TO DATE	PARTICIPANT'S SHARE	DEBT ISSUED & OUTSTANDING 12/31/2011	PARTICIPANTS SHARE	TOTAL DEBT SERVICE ON BONDS OUTSTANDING	PARTICIPANT SHARE
Stony Brook Peaking Project	-	\$ 59,218	-	\$ -	-	\$ -	-
Stony Brook Intermediate Project	-	167,588	-	-	-	-	-
Nuclear Mix No. 1-SBK	-	10,956	-	1,728	-	1,470	-
Nuclear Mix No. 1-MLS	-	121,046	-	19,097	-	16,240	-
Nuclear Project No. 3-MLS	18.0079	147,417	26,547	68,710	12,373	72,021	12.96
Nuclear Project No. 4-SBK	7.4000	336,269	24,884	72,850	5,391	76,631	5.67
Nuclear Project No. 5-SBK	1.8769	91,427	1,716	21,370	401	22,559	42
Wyman Project	-	6,609	-	-	-	-	-
Project No. 6-SBK	-	639,069	-	174,665	-	191,244	-
<b>TOTAL</b>		<b>\$ 1,581,599</b>	<b>\$ 53,147</b>	<b>\$ 358,430</b>	<b>\$ 18,165</b>	<b>\$ 380,165</b>	<b>\$ 19,006</b>

PROJECTS	PERCENTAGE SHARE	OPERATION & MAINTENANCE 12/31/2010	PARTICIPANT'S SHARE	OPERATION & MAINTENANCE 12/31/2011	PARTICIPANTS SHARE
Stony Brook Peaking Project	-	\$ 4,951	-	\$ 4,306	-
Stony Brook Intermediate Project	-	26,601	-	25,624	-
Nuclear Mix No. 1-SBK	-	1,965	-	1,239	-
Nuclear Mix No. 1-MLS	-	16,571	-	17,540	-
Nuclear Project No. 3-MLS	18.0079	28,451	5,123	29,304	5,277
Nuclear Project No. 4-SBK	7.4000	39,545	2,926	38,376	2,840
Nuclear Project No. 5-SBK	1.8769	10,783	202	10,428	196
Wyman Project	-	1,556	-	1,751	-
Project No. 6-SBK	-	65,838	-	64,280	-
<b>TOTAL</b>		<b>\$ 196,261</b>	<b>\$ 8,251</b>	<b>\$ 192,848</b>	<b>\$ 8,313</b>

ATTACHMENT A  
Page 4

AS OF DECEMBER 31, 2011

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT  
(\$000)

PAGE

PROJECTS	PERCENTAGE SHARE	2012		2013		2014	
		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	-	869	-	616	-	215	-
Nuclear Mix No. 1-MLS	-	8,183	-	5,804	-	2,023	-
Nuclear Project No. 3-MLS	18.0079	14,993	2,700	14,307	2,576	14,063	2.53
Nuclear Project No. 4-SBK	7.4000	16,216	1,200	16,200	1,199	14,014	1.11
Nuclear Project No. 5-SBK	1.8769	4,673	88	4,546	85	4,293	.8
Wymann Project	-	-	-	-	-	-	-
Project No. 6-SBK	-	33,834	-	33,529	-	33,910	-
<b>TOTAL</b>		<b>\$ 78,768</b>	<b>\$ 3,988</b>	<b>\$ 75,002</b>	<b>\$ 3,960</b>	<b>\$ 69,518</b>	<b>\$ 3.72</b>

PROJECTS	PERCENTAGE SHARE	2015		2016		2017 to 2020	
		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	14,311	2,577	9,182	1,653	5,165	.93
Nuclear Project No. 4-SBK	7.4000	13,672	1,012	11,128	823	4,401	.32
Nuclear Project No. 5-SBK	1.8769	4,000	75	3,370	63	1,677	.3
Wymann Project	-	-	-	-	-	-	-
Project No. 6-SBK	-	33,412	-	32,411	-	24,148	-
<b>TOTAL</b>		<b>\$ 65,395</b>	<b>\$ 3,664</b>	<b>\$ 56,091</b>	<b>\$ 2,539</b>	<b>\$ 35,391</b>	<b>\$ 1.28</b>

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 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 a 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

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



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 Department
- Said 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

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 bad 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 RI

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):**
- |                              |                     |
|------------------------------|---------------------|
| <u>Delivery Services</u>     |                     |
| Customer Charge              | \$2.90 per month    |
| Distribution Charge          | \$0.02990 per kWh   |
| Transmission Charge          | \$0.00720 per kWh   |
| Transition Charge            | \$0.04020 per kWh   |
| <u>Supplier Services</u>     |                     |
| Generation Charge            | \$0.05400 per kWh   |
| Transition Adjustment Charge | (\$0.02384) 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

### RESIDENTIAL SERVICE WITH ELECTRIC DOMESTIC WATER HEATING SCHEDULE RW

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 electric domestic water heating, having no other source of domestic hot water 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):**

<u>Delivery Services</u>	
Customer Charge	\$5.50 per month
Distribution Charge	\$0.02990 per kWh
Transmission Charge	\$0.00720 per kWh
Transition Charge	\$0.04020 per kWh
<u>Supplier Services</u>	
Generation Charge - first 500 kWh	\$0.05400 per kWh
Generation Charge - next 300 kWh	\$0.03800 per kWh
Generation Charge - over 800 kWh	\$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.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

**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;**

All water heaters and apparatus incidental thereto, including wiring connections, are subject to the Department's approval as to type and size. The Department's *Terms and Conditions for Electric Service* currently in effect are a part of this rate schedule which 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 GCI

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):**

<u>Delivery Services</u>	
Customer Charge	\$7.00 per month
Distribution Charge	\$0.01867 per kWh
Transmission Charge	\$0.00410 per kWh
Transition Charge	\$0.05200 per kWh
<u>Supplier Services</u>	
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.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

**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.

**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
<u>Supplier Services</u>		
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.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

**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;
- (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

1

2

3

## 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:

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

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.

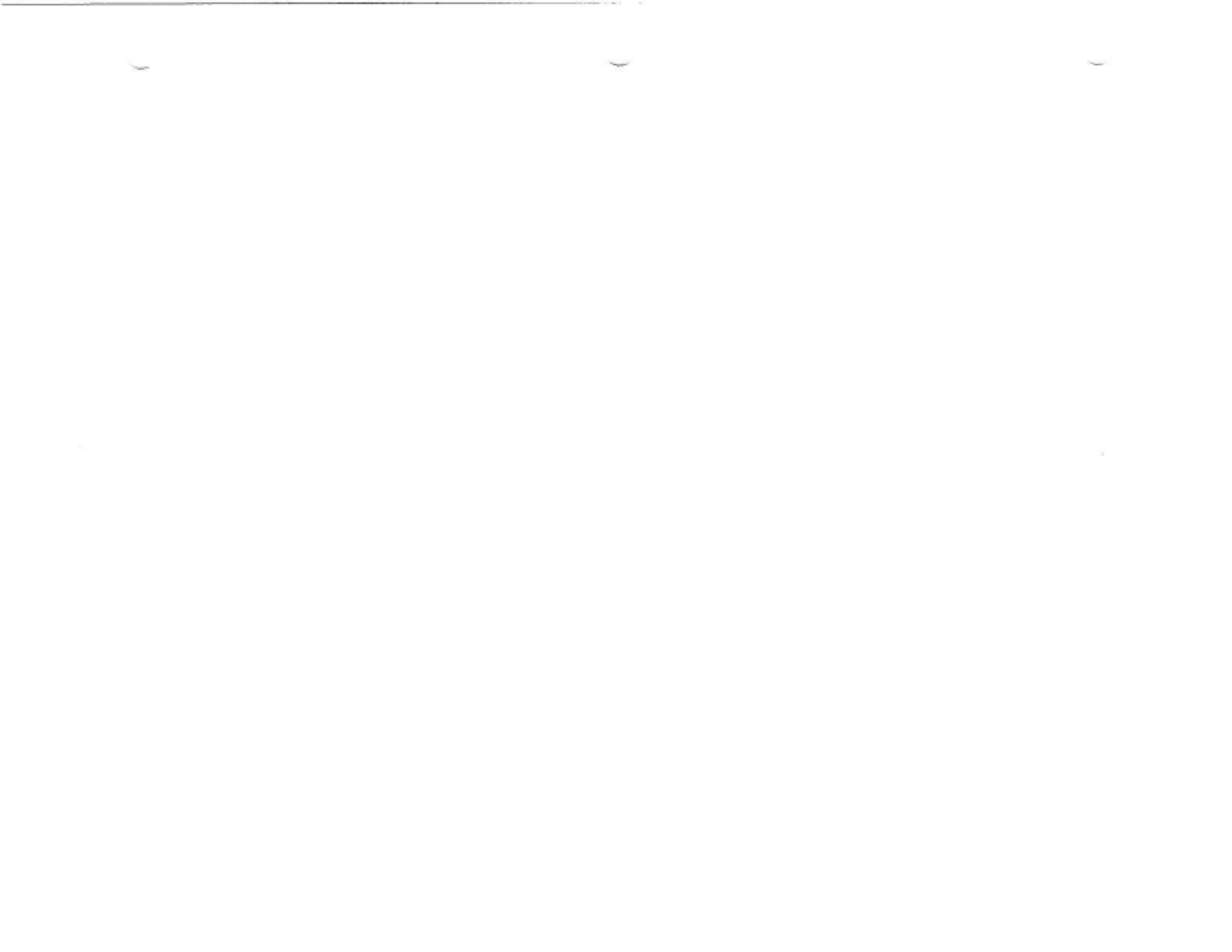
Adjustments shall be made to reflect differences between estimated and actual hydropower costs and residential kWh sold in the prior period in order to recover or credit any under collection or over collection of hydropower savings.

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):**

<u>Delivery Services</u>	
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
<u>Supplier Services</u>	
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.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

**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.

**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 lights of sodium vapor Upon failure or request.

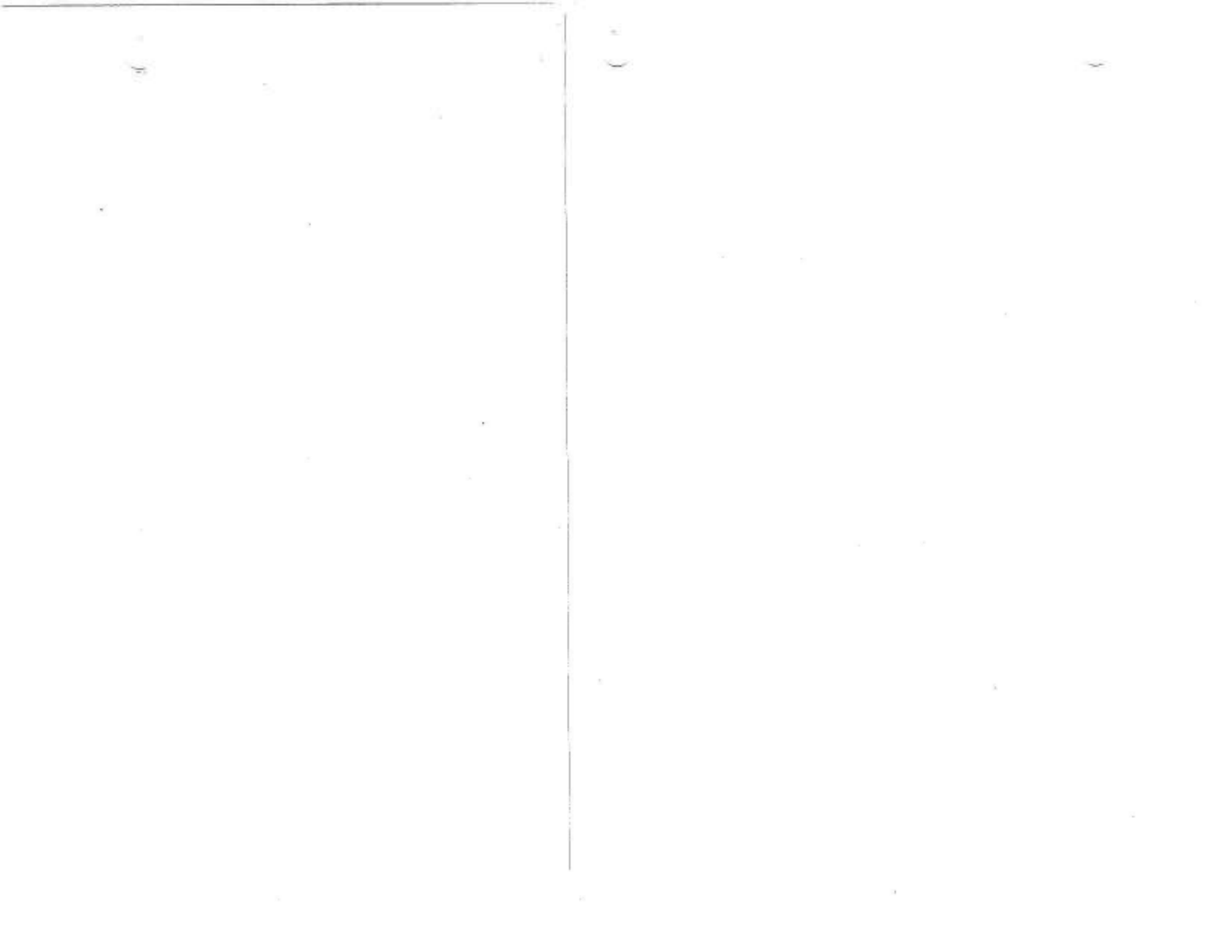
4. **TRANSITION ADJUSTMENT CHARGE:**  
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.
5. **TERMS OF PAYMENT:**  
Bills calculated and issued under this schedule are 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

### TEMPORARY 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
<u>Supplier Services</u>	
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

ATTACHMENT B

M.D.T.E. No. 92

Cancel

M.D.P.U. No. 82

Page 2 of 2

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 apart of this rate schedule, where not inconsistent with any specific provision thereof.

DATE ISSUED:

November 12, 2002

DATE EFFECTIVE:

December 1, 2002