



The Commonwealth of Massachusetts

RETURN
OF THE
CITY OF
HOLYOKE GAS AND ELECTRIC DEPARTMENT
TO THE
DEPARTMENT OF
PUBLIC UTILITIES
OF MASSACHUSETTS

For the Year Ended December 31,

2013

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

Brian Richards

Official Title:

Comptroller

Office Address:

99 Suffolk Street
Holyoke, MA 01040

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FOR GAS PLANTS ONLY:

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GENERAL INFORMATION

- | | |
|---|--|
| 1. Name of town (or city) making this report. | Holyoke, Massachusetts 01040 |
| 2. If the town (or city) has acquired a plant,

Kind of plant, whether gas or electric.

Owner from whom purchased, if so acquired.

Date of votes to acquire a plant in accordance with the provisions of chapter 164
of the General Laws.

Record of votes: First vote Yes, ; No, Second vote: Yes, ; No,

Date when town (or city) began to sell electricity, |

1902 |
| 3. Name and address of manager of municipal lighting: | James M. Lavelle
54 Pleasant Street
Holyoke, MA 01040 |
| 4. Name and address of mayor or selectmen: | Alex B. Morse
City Hall
Holyoke, MA 01040 |
| 5. Name and address of town (or city) treasurer: | Jon D. Lumbra
City Hall
Holyoke, MA 01040 |
| 6. Name and address of town (or city) clerk:
2014 - Brenna Murphy-McGee | Susan Egan
City Hall
Holyoke, MA 01040 |
| 7. Names and addresses of members of municipal light board: | Francis J. Hoey, III
15 Carol Lane
Holyoke, MA 01040

Robert H. Griffin
6 Whittier Circle
Holyoke, MA 01040

James A. Sutter
30 Fairfield Avenue
Holyoke, MA 01040 |
| 8. Total valuation of estates in town (or city) according to last state valuation
Fiscal 2013 7/1/12 - 6/30/13
\$2,091,388,565 | Fiscal 2014 7/1/13 - 6/30/14

\$2,053,136,422 |
| 9. Tax rate for all purposes during the year:
Fiscal 2013 7/1/12 - 6/30/13
\$18.35 - Residential
\$39.97 - Commercial/Industrial | Fiscal 2014 7/1/13 - 6/30/14

\$19.04 - Residential
\$39.74 - Commercial/Industrial |
| 10. Amount of manager's salary: | \$175,417.00 |
| 11. Amount of manager's bond: | \$100,000.00 |
| 12. Amount of salary paid to members of municipal light board (each) | \$4,000.00 |

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.....	21,106,029
2	From Sales of Electricity.....	41,551,684
3	From Sales of Steam and Sundries.....	1,949,929
4	TOTAL	64,607,642
EXPENSES:		
6	For operation, maintenance and repairs.....	59,509,555
7	For interest on bonds, notes or scrip.....	3,323,431
8	For depreciation fund (3% on \$187,075,109 as per page 8B & 9A).....	5,612,253
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	1,385,000
12	For loss in preceding year.....	
13	TOTAL	69,830,239
COST:		
16	Of gas to be used for municipal buildings.....	845,425
17	Of gas to be used for street lights.....	
18	Of electricity to be used for municipal buildings (includes telecom).....	2,793,107
19	Of electricity to be used for street lights.....	438,859
20	Of steam.....	
21	Total of the above items to be included in the tax levy.....	4,077,391
22	New construction to be included in the tax levy.....	
23	Total amounts to be included in the tax levy.....	4,077,391

CUSTOMERS

Names of cities of towns in which the plant supplies GAS, with the number of customers' meters in each		Names of cities of towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each	
City or Town	Number of Customers' Meters, December 31.	City or Town	Number of Customers' Meters, December 31.
Holyoke, MA	9,959	Holyoke, MA	16,560
Southampton, MA	1,047	Southampton, MA	138
Westfield, MA	7	Westfield, MA	0
Chicopee, MA	0	Chicopee, MA	4
TOTAL	11,013	TOTAL	16,702

APPROPRIATIONS SINCE BEGINNING OF YEAR

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

FOR CONSTRUCTION OR PURCHASE OF PLANT:

* At	meeting	19	, to be paid from {	\$
* At	meeting	19	, to be paid from {	
				TOTAL \$
				<u> </u>

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

1. Street Lights.....	\$	438,859
2. Municipal Buildings.....		3,638,532
3. Steam.....		0
	\$	<u>4,077,391</u>

*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**	Period of Payments		Interest		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
2009 Clean Renewable Energy Bond	15-Jan-09	2,500,000		12/15/2020			1,458,333
	TOTAL	2,500,000				TOTAL	1,458,333

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.

**List original issues of bonds and notes including those that have been retired.

TOWN NOTES

(Issued on Account of Gas or Electric Lighting)

When Authorized*	Date of Issue	Amount of Original Issue**	Period of Payments		Interest		Amount Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
2012 Note to City of Holyoke	04/01/12	30,532,000		9/1/2031			29,392,000
Debt Premium	04/01/12	3,180,783		9/1/2031			2,871,629
2003 Note to Peoples	11/01/03	2,589,544		Monthly			1,050,742
	TOTAL	36,302,327				TOTAL	33,314,371

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.

**List original issues of bonds and notes including those that have been retired.

TOTAL COST OF PLANT - ELECTRIC

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

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

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

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2							
3							
4	TOTAL INTANGIBLE PLANT	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.....	1,406,755					1,406,755
9	312 Boiler Plant Equipment.....	51,076					51,076
10	312-01 Boiler Plant Equipment Comm.....						
11	313 Engines and Engine Driven Generators.....						
12	314 Turbogenerator Units.....						
13	315 Accessory Electric Equipment.....	208,629					208,629
14	316 Miscellaneous Power Plant Equipment.....	36,029					36,029
15	Total Steam Production Plant	1,702,490	0	0	0	0	1,702,490
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
24							

TOTAL COST OF PLANT - ELECTRIC (Continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights.....	1,430,320					1,430,320
3	331 Structures and Improvements.....	4,764,167	132,788		1,292,218		6,189,174
4	332 Reservoirs, Dams and Waterways....	22,745,025			498,218		23,243,243
5	333 Waterwheels, Turbines and Generators.....	12,764,727	85,822				12,850,549
6	334 Accessory Electric Equipment.....	3,038,420	198,064		(118,035)		3,118,448
7	335 Miscellaneous Power Plant Equipment.....	157,980	13,178				171,158
8	336 Roads, Railroads and Bridges.....						
9	Total Hydraulic Production Plant	44,900,638	429,852	0	1,672,401	0	47,002,891
10	D. Other Production Plant						
11	340 Land and Land Rights.....	40,040			(25,000)		15,040
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	40,040	0	0	(25,000)	0	15,040
19	TOTAL PRODUCTION PLANT	46,643,168	429,852	0	1,647,401	0	48,720,421
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....	629,048	2,888		54,375		686,311
22	351 Clearing Land and Rights of Way.....						
23	352 Structures and Improvements.....						
24	353 Station Equipment.....	9,750,094	25,130		111,128		9,886,352
25	354 Towers and Fixtures.....						
26	355 Poles and Fixtures.....	2,073,651	6		1,625		2,075,281
27	356 Overhead Conductors and Devices...	1,055,120			14,954		1,070,074
28	357 Underground Conduits.....						
29	358 Underground Conductors and Devices						
30	359 Roads and Trails.....						
31	TOTAL TRANSMISSION PLANT	13,507,913	28,023	0	182,081	0	13,718,017

TOTAL COST OF PLANT - ELECTRIC (Concluded)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)	
1	4. DISTRIBUTION PLANT							
2	360 Land and Land Rights.....	3,106,289			336		3,106,625	
3	361 Structures and Improvements.....	438,563	6,247				444,810	
4	362 Station Equipment.....	13,745,726	4,196		808,952		14,558,874	
5	363 Storage Battery Equipment.....							
6	364 Poles, Towers and Fixtures.....	4,547,855	(98,127)	72,131	185,463		4,563,060	
7	365 Overhead Conductors and Devices....	7,737,170	10,121	112,103	405,176		8,040,365	
8	366 Underground Conduits.....	7,113,496	106,381		577,832		7,797,710	
9	367 Underground Conductors & Devices...	9,268,645	233,905	262,553	1,417,004		10,657,000	
10	368 Line Transformers (Over & Under)....	5,357,896	104,430	231,586	5,741		5,236,481	
11	369 Services (Over & Under).....	3,705,982	24,892	14,000	3,386		3,720,259	
12	370 Meters-Consumer's Expense.....	2,263,539	249,004	54,937	334,358		2,791,964	
13	371 Installation on Cust's Premises.....	832,176	6,554	11,974	13,040		839,797	
14	373 Street Light and Signal Systems.....	2,725,664	31,049	144,399	468,502		3,080,816	
15	3** Telecommunications.....	10,372,925	339,243		85,190		10,797,358	
16	TOTAL DISTRIBUTION PLANT	71,215,926	1,017,895	903,681	4,304,980	0	75,635,120	
17	5. GENERAL PLANT							
18	389 Land and Land Rights.....	94,576					94,576	
19	390 Structures and Improvements.....	3,347,782	40,383		228,285		3,616,450	
20	391/391-01 Office Furn & Equip/Comp Equip.....	2,412,304	136,499				2,548,803	
21	392 Transportation Equipment.....	2,306,304	168,651	26,300			2,448,655	
22	393 Stores Equipment.....	28,048					28,048	
23	394 Tools, Shop and Garage Equipment...	85,708	20,235				105,943	
24	395 Laboratory Equipment.....	168,187	22,000				190,187	
25	396 Power Operated Equipment.....	275,839	12,763				288,601	
26	397 Communication Equipment.....	1,732,685	3,232				1,735,917	
27	398 Miscellaneous Equipment.....	103,763					103,763	
28	399 Other Tangible Property.....							
29	3** Telecommunications.....	948,213	13,698				961,911	
30	TOTAL GENERAL PLANT	11,503,410	417,461	26,300	228,285	0	12,122,856	
31	TOTAL ELECTRIC PLANT IN SERVICE	142,870,416	1,893,231	929,981	6,362,748	0	150,196,414	
32	TOTAL COST OF ELECTRIC PLANT.....							150,196,414
33								
34	Less Cost of Land, Land Rights, and Rights of Way..... ⁷							5,439,872
35	Total Cost upon which depreciation is based.....							144,756,543

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 - GAS

1. Report below the cost of utility plant in service according to prescribed accounts.
 2. Do not include as adjustments, corrections of additions and retirements for the current or the preceding year. Such items should be included in column (c) or (d) as appropriate.
 3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative effect of such amounts.
 4. Reclassifications or transfers within utility plant accounts should be shown in column (f).

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2	301 Organization.....						
3	303 Miscellaneous Intangible Plant.....						
4	TOTAL INTANGIBLE PLANT	0	0	0	0	0	0
5	2. PRODUCTION PLANT						
6	Manufactured Gas Production						
7	304 Land and Land Rights.....	159,063					159,063
8	305 Structures and Improvements.....	101,801					101,801
9	306 Boiler Plant Equipment.....						
10	307 Other Power Plant Equipment.....	435	2,368				2,802
11	310 Water Gas Generating Equipment...						
12	311 Liquefied Petroleum Gas Equipment..	171,730					171,730
13	312 Oil Gas Generating Equipment.....						
14	313 Generating Equip - Other Processes..						
15	315 Catalytic Cracking Equipment.....						
16	316 Other Reforming Equipment.....						
17	317 Purification Equipment.....						
18	318 Residual Refining Equipment.....						
19	319 Gas Mixing Equipment.....	1,484,146					1,484,146
20	320 Other Equipment.....	12,703					12,703
21	TOTAL MANUFACTURED GAS PRODUCTION PLANT	1,929,878	2,368	0	0	0	1,932,245
22	3. STORAGE PLANT						
23	360 Land and Land Rights.....						
24	361 Structures and Improvements.....	156,576					156,576
25	362 Gas Holders.....						
26	363 Other Equipment.....						
30	TOTAL STORAGE PLANT	156,576	0	0	0	0	156,576

TOTAL COST OF PLANT - GAS (Concluded)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)	
1	4. TRANSMISSION AND DISTRIBUTION PLANT							
2	365.1 Land and Land Rights.....	69,987					69,987	
3	365.2 Rights-of-Way.....							
4	366 Structures and Improvements.....	910,563					910,563	
5	367 Mains.....	16,720,093	28,025	12,495	945,703		17,681,327	
6	368 Compressor Station Equipment...	40,778					40,778	
7	369 Measuring and Regulating Station Equipment.....	676,647	48,357		191,160		916,164	
8	370 Comm Equip Meters/Telemeter.....	261,068					261,068	
9	380 Services.....	10,955,421	35,317	62,811	1,324,779		12,252,705	
10	381 Meters.....	3,703,434	338,643	18,372	180,039		4,203,744	
11	382 Meter Installations.....	10,602		5,516			5,086	
12	383 House Regulators.....							
13	388 Other Property on Cust's Prem...							
14	387 Other Equipment.....	24,871					24,871	
15	TOTAL TRANSMISSION AND							
16	DISTRIBUTION PLANT	33,373,465	450,342	99,194	2,641,681	0	36,366,294	
17	5. GENERAL PLANT							
18	389 Land and Land Rights.....	59,754					59,754	
19	390 Structures and Improvements.....	1,275,674					1,275,674	
20	391/391-01 Office Furn & Equip/Comp Equip	1,240,741	58,652				1,299,392	
21	392 Transportation Equipment.....	894,819	54,225	18,270			930,774	
22	393 Stores Equipment.....	315					315	
23	394 Tools, Shop and Garage Equipment	277,515	10,471				287,986	
24	395 Laboratory Equipment.....							
25	396 Power Operated Equipment.....	12,637					12,637	
26	397 Communication Equipment.....	256,409					256,409	
27	398 Miscellaneous Equipment.....	29,314					29,314	
28	399 Other Tangible Property.....							
29	TOTAL GENERAL PLANT	4,047,179	123,348	18,270	0	0	4,152,256	
30	TOTAL GAS PLANT IN SERVICE	39,507,097	576,057	117,464	2,641,681	0	42,607,371	
31	TOTAL COST OF GAS PLANT.....							42,607,371
32								
33	Less Cost of Land, Land Rights, and Rights of Way.....							288,804
34	Total Cost upon which depreciation is based.....							42,318,567

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

COMPARATIVE BALANCE SHEET Assets and Other Debits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	UTILITY PLANT			
2	101 Utility Plant in Service - Electric (pg 17).....	98,592,143	103,630,783	5,038,641
3	101 Utility Plant in Service - Gas (pg 20).....	17,793,274	19,786,994	1,993,721
4	Non Operating Plant.....	5,999,505	5,988,390	(11,115)
5	TOTAL UTILITY PLANT	122,384,921	129,406,167	7,021,247
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds.....			
13	126 Depreciation Fund (pg 14) see acct 234 pg 11.....			
14	128 Other Special Funds.....	2,917,526	3,090,397	172,871
15	TOTAL FUNDS	2,917,526	3,090,397	172,871
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (pg 14).....	3,308,392	5,565,559	2,257,167
18	132 Special Deposits.....	629,979	643,158	13,179
19	132 Working Funds.....	15,000	15,000	0
20	141 Notes and Receivables.....			
21	142 Customer Accounts Receivable.....	6,944,376	7,637,594	693,218
22	143 Other Accounts Receivable.....			
23	146 Receivables from Municipality.....	366,323	486,901	120,578
24	151 Materials and Supplies (pg 14).....	4,179,449	4,155,141	(24,308)
25	163 Stores Expense.....			
26	165 Prepayments.....	33,697,535	48,415,623	14,718,088
27	174 Miscellaneous Current Assets.....	6,918,665	4,659,317	(2,259,349)
28	TOTAL CURRENT AND ACCRUED ASSETS	56,059,720	71,578,293	15,518,574
29	DEFERRED DEBITS			
30	181 Unamortized Debt Discount.....	1,671,485	1,582,953	(88,532)
31	182 Extraordinary Property Debits.....			
32	185 Other Deferred Debits.....	0	0	0
33	TOTAL DEFERRED DEBITS	1,671,485	1,582,953	(88,532)
34				
35	TOTAL ASSETS AND OTHER DEBITS	183,033,652	205,657,811	22,624,159

COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	APPROPRIATIONS			
2	201 Appropriations for Construction.....			
3	SURPLUS			
4	205 Sinking Fund Reserves.....			
5	206 Loans Repayment.....	1,532,452	1,566,191	33,739
6	207 Appropriations for Construction Repayment.....			
7	208 Unappropriated Earned Surplus (pg 12).....	77,115,723	83,881,659	6,765,936
8	TOTAL SURPLUS	78,648,175	85,447,850	6,799,675
9	LONG TERM DEBT			
10	221 Bonds (pg 6).....	1,666,667	1,458,333	(208,333)
11	231 Notes Payable (pg 7).....	34,813,090	33,314,371	(1,498,719)
12	TOTAL BONDS AND NOTES	36,479,757	34,772,704	(1,707,052)
13	CURRENT AND ACCRUED LIABILITIES			
14	232 Accounts Payable.....	13,694,989	12,687,778	(1,007,211)
15	234 Payables to Municipality.....			
16	235 Customer Deposits.....	517,657	494,001	(23,656)
17	236 Taxes Accrued.....			
18	237 Interest Accrued.....	423,437	414,974	(8,463)
19	242 Miscellaneous Current and Accrued Liabilities.....	7,000,000	0	(7,000,000)
20	TOTAL CURRENT AND ACCRUED LIABILITIES	21,636,083	13,596,753	(8,039,330)
21	DEFERRED CREDITS			
22	251 Unamortized Premium on Debt.....			
23	252 Customer Advance for Construction.....			
24	253 Other Deferred Credits.....	45,754,434	71,325,300	25,570,865
25	TOTAL DEFERRED CREDITS	45,754,434	71,325,300	25,570,865
26	RESERVES			
27	260 Reserves for Uncollectible Accounts.....	515,204	515,204	0
28	261 Property Insurance Reserve.....			
29	262 Injuries and Damages Reserves.....			
30	263 Pensions and Benefits.....			
31	265 Miscellaneous Operating Reserves.....			
32	TOTAL RESERVES	515,204	515,204	0
33	CONTRIBUTIONS IN AID OF CONSTRUCTION			
34	271 Contributions in Aid of Construction.....			0
35	TOTAL LIABILITIES AND OTHER CREDITS	183,033,653	205,657,811	22,624,159

State below if any earnings of the Municipal Lighting Plant have been used for any purpose other than discharging indebtedness of the plant, the purpose for which used and the amount thereof.

STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Total	
		Current Year (b)	Increase or (Decrease) from Preceding Year (c)
1	OPERATING INCOME		
2	400 Operating Revenue (pg 37 and pg 43)	67,831,771	3,681,633
3	Operating Expenses:		
4	401 Operation Expense (pg 42 and pg 47).....	46,785,810	2,223,437
5	402 Maintenance Expense (pg 42 and pg 47).....	7,659,662	(43,209)
6	403 Depreciation Expense	5,300,443	631,875
7	407 Amortization of Property Losses.....	0	0
8			
9	408 Taxes (pg 49).....		
10	Total Operating Expenses	59,745,915	2,812,103
11	Operating Income	8,085,855	869,530
12	414 Other Utility Operating Income (pg 50).....	0	0
13			
14	Total Operating Income	8,085,855	869,530
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (pg 51).....	122,349	(9,061)
17	419 Interest Income.....	2,416,857	(641,621)
18	421 Miscellaneous Nonoperating Income.....	1,248,959	(395,612)
19	Total Other Income	3,788,166	(1,046,295)
20	TOTAL INCOME	11,874,021	(176,765)
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Amortization.....		
23	426 Other Income Deductions.....	2,540,488	1,361,511
24	Total Income Deductions	2,540,488	1,361,511
25	Income before Interest Charges	9,333,533	(1,538,276)
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes.....	1,262,319	(1,328,268)
28	428 Amortization of Debt Discount and Expense.....	101,882	(1,266,243)
29	429 Amortization of Premium on Debt.....		
30	431 Other Interest Expense.....	8,949	2,591
31	432 Interest Charged to Construction-Credit.....		
32	Total Interest Charges	1,373,150	(2,591,920)
33	NET INCOME	7,960,383	1,053,644

EARNED SURPLUS

Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of Period).....		77,115,723
35			
36	Adjustment to correct Unappropriated Earned Surplus.....		1,532,452
37	433 Balance transferred from Income.....		7,960,383
38	434 Miscellaneous Credits to Surplus (pg 21).....	0	
39	435 Miscellaneous Debits to Surplus (pg 21).....	1,160,708	
40	436 Appropriations of Surplus (pg 21).....	1,566,191	
41	437 Surplus Applied to Depreciation.....		
42	208 Unappropriated Earned Surplus (at end of period).....	83,881,659	
43			
44	TOTALS	86,608,558	86,608,558

STATEMENT OF INCOME FOR THE YEAR

Electric		Gas		Line No.
Current Year (d)	Increase or (Decrease) from Preceding Year (e)	Current Year (f)	Increase or (Decrease) from Preceding Year (g)	
				1
45,004,570	1,329,879	22,827,201	2,351,754	2
				3
27,642,049	652,359	19,143,761	1,571,078	4
6,563,453	130,761	1,096,209	(173,969)	5
4,123,894	552,378	1,176,549	79,497	6
				7
				8
				9
38,329,397	1,335,497	21,416,518	1,476,606	10
6,675,172	(5,618)	1,410,683	875,148	11
0	0			12
				13
6,675,172	(5,618)	1,410,683	875,148	14
				15
119	73	122,230	(9,134)	16
2,249,369	(575,153)	167,488	(66,468)	17
1,228,410	(274,450)	20,549	(121,162)	18
3,477,899	(849,531)	310,267	(196,764)	19
10,153,071	(855,149)	1,720,950	678,384	20
				21
				22
2,528,127	1,366,529	12,361	(5,018)	23
2,528,127	1,366,529	12,361	(5,018)	24
7,624,944	(2,221,678)	1,708,589	683,402	25
				26
1,154,411	(1,190,939)	107,908	(137,329)	27
99,696	(1,180,708)	2,187	(85,536)	28
				29
0	0	8,949	2,591	30
				31
1,254,107	(2,371,646)	119,043	(220,273)	32
6,370,837	149,969	1,589,546	903,675	33

CASH BALANCES AT END OF YEAR (Account 131)

Line No.	Items (a)	Amount (b)
1	Operation Fund.....	5,565,559
2	Interest Fund.....	
3	Bond Fund.....	
4	Construction Fund.....	
5		
6		
7		
8		
9		
10		
11		
12	TOTAL	5,565,559

MATERIALS AND SUPPLIES (Accounts 151-159, 163)

Summary per Balance Sheet

Line No.	Account (a)	Amount End of Year	
		Electric (b)	Gas (c)
13	Fuel (Account 151) (See Schedule, Page 25).....		
14	Fuel Stock Expenses (Account 152).....	0	1,007,524
15	Residuals (Account 153).....		
16	Plant Materials and Operating Supplies (Account 154).....	2,623,984	523,634
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	2,623,984	1,531,158

DEPRECIATION FUND ACCOUNT (Account 126)

Line No.	Items (a)	Amount (b)
25	Balance of Account at Beginning of Year.....	0
26	Income During Year from Balance on Deposit.....	5,300,443
27	Amount Transferred from Income.....	
28	TOTAL	5,300,443
29		
30	CREDITS	
31	Amount expended for Construction Purposes (Sec. 57, C. 164 of G.L.).....	0
32	Amounts Expended for Renewals.....	5,300,443
33		
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year.....	0
40	TOTAL	5,300,443

UTILITY PLANT - ELECTRIC

1. Report below the items 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).
3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative effect of such amounts.
4. Reclassifications or transfers within utility plant accounts should be shown in column (f).

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2							
3							
4		0	0	0	0	0	0
5	2. PRODUCTION PLANT						
6	A. Steam Production						
7	310 Land and Land Rights.....						
8	311 Structures and Improvements.....	283,014		9,569			273,445
9	312 Boiler Plant Equipment.....	21,452		988			20,464
10	312-01 Boiler Plant Equipment Comm.....						
11	313 Engines and Engine Driven Generators - Commercial Steam Line						
12	314 Turbogenerator Units.....						
13	315 Accessory Electric Equipment.....						
14	316 Miscellaneous Power Plant Equipment.....	1,036		53			983
16	Total Steam Production Plant	305,502	0	10,610	0	0	294,892
17	B. Nuclear Production Plant						
18	320 Land and Land Rights.....						
19	321 Structures and Improvements.....						
20	322 Reactor Plant Equipment.....						
21	323 Turbogenerator Units.....						
22	324 Accessory Electric Equipment.....						
23	325 Miscellaneous Power Plant Equipment.....						
24	Total Nuclear Production Plant	0	0	0	0	0	0

UTILITY PLANT - ELECTRIC (Continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights.....	1,430,320					1,430,320
3	331 Structures and Improvements.....	3,600,763	132,788	137,651		1,292,218	4,888,119
4	332 Reservoirs, Dams and Waterways...	16,588,669		646,845		498,218	16,440,041
5	333 Waterwheels, Turbines and Generators.....	9,746,940	85,822	382,942			9,449,820
6	334 Accessory Electric Equipment.....	2,608,563	198,064	88,186		(118,035)	2,600,405
7	335 Miscellaneous Power Plant Equipment.....	141,268	13,178	4,709			149,738
8	336 Roads, Railroads and Bridges.....						
9	Total Hydraulic Production Plant	34,116,522	429,852	1,260,333	0	1,672,401	34,958,442
10	D. Other Production Plant						
11	340 Land and Land Rights.....	40,040				(25,000)	15,040
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	40,040	0	0	0	(25,000)	15,040
19	TOTAL PRODUCTION PLANT	34,462,064	429,852	1,270,944	0	1,647,401	35,268,374
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....	629,048	2,888			54,375	686,311
22	351 Clearing Land and Rights of Way.....						
23	352 Structures and Improvements.....						
24	353 Station Equipment.....	6,517,249	25,130	193,010		111,128	6,460,496
25	354 Towers and Fixtures.....						
26	355 Poles and Fixtures.....	545,226	6	33,705		1,625	513,152
27	356 Overhead Conductors and Devices....	294,607		17,210		14,954	292,350
28	357 Underground Conduits.....						
29	358 Underground Conductors and Devices.....						
30	359 Roads and Trails.....						
31	TOTAL TRANSMISSION PLANT	7,986,130	28,023	243,925	0	182,081	7,952,309

UTILITY PLANT - ELECTRIC (Concluded)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights.....	3,106,289				336	3,106,625
3	361 Structures and Improvements.....	137,366	6,247	13,157			130,456
4	362 Station Equipment.....	10,446,671	4,196	412,372		808,952	10,847,447
5	363 Storage Battery Equipment.....						
6	364 Poles, Towers and Fixtures.....	2,693,658	(98,127)	136,436	8,397	185,463	2,636,162
7	365 Overhead Conductors and Devices...	4,054,960	10,121	232,115	22,421	405,176	4,215,722
8	366 Underground Conduit.....	2,646,414	106,381	213,405		577,832	3,117,222
9	367 Underground Conductors and Devices	4,772,243	233,905	278,059	52,511	1,417,004	6,092,582
10	368 Line Transformers (Over & Under).....	1,961,236	104,430	160,737	2,089	5,741	1,908,581
11	369 Services (Over & Under).....	1,481,711	24,892	111,179	2,800	3,386	1,396,009
12	370 Meters.....	1,492,581	249,004	67,906	7,238	334,358	2,000,798
13	371 Installation on Cust's Premises.....	51,442	6,554	24,965	2,395	13,040	43,676
14	373 Street Lighting and Signal Systems....	928,016	31,049	78,097	28,880	468,502	1,320,591
15	3** Telecommunications.....	8,483,324	339,243	251,870		85,190	8,655,888
16	TOTAL DISTRIBUTION PLANT	42,255,910	1,017,895	1,980,298	126,730	4,304,980	45,471,759
17	5. GENERAL PLANT						
18	389 Land and Land Rights.....	94,576					94,576
19	390 Structures and Improvements.....	2,375,958	40,383	100,433		228,285	2,544,193
20	391/391-01 Office Furn & Equip/Comp Equip	655,253	136,499	118,898			672,854
21	392 Transportation Equipment.....	354,705	168,651	116,368			406,988
22	393 Stores Equipment.....						
23	394 Tools, Shop and Garage Equipment..	31,284	20,235	8,571			42,948
24	395 Laboratory Equipment.....	64,102	22,000	16,819			69,283
25	396 Power Operated Equipment.....	20,405	12,763	2,971			30,197
26	397 Communication Equipment.....	1,234,439	3,232	173,269			1,064,403
27	398 Miscellaneous Equipment.....	18,330		6,846			11,485
28	399 Other Tangible Property.....						
29	3** Telecommunications.....	276,346	13,698	84,554			205,490
30	TOTAL GENERAL PLANT	5,125,399	417,461	628,728	0	228,285	5,142,417
31	TOTAL ELECTRIC PLANT IN SERVICE	89,829,503	1,893,231	4,123,894	126,730	6,362,748	93,834,859
32	104 Utility Plant leased to Others.....						
33	105 Property Held for Future Use.....						
34	107 Construction Work in Progress.....	8,762,640	7,383,739			(6,350,454)	9,795,925
	108 Accumulated Depreciation						
35	TOTAL UTILITY ELECTRIC PLANT	98,592,143	9,276,970	4,123,894	126,730	12,294	103,630,783

PRODUCTION FUEL AND OIL STOCKS (Included in Account 151)
(Except Nuclear Materials)

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

Line No.	Item (a)	Total Cost (b)	KINDS OF FUEL AND OIL			
			Oil BBL (c)	Oil Cost (d)	System Storage MMBTU (e)	System Storage Cost (f)
1	On Hand Beginning of Year.....	1,096,644	782	72,603	247,341	902,478
2	Received During Year.....	1,461,493	0	0	220,757	840,605
3	TOTAL	2,558,137	782	72,603	468,098	1,743,083
4	Used During Year (Note A).....	1,478,010			227,486	834,143
5	(Boiler Fuel)					
6						
7						
8						
9						
10						
11	Sold or Transferred.....	72,603	782	72,603		
12	TOTAL DISPOSED OF	1,550,613	782	72,603	227,486	834,143
13	BALANCE END OF YEAR	1,007,524	0	0	240,612	908,940

Line No.	Item (g)	KINDS OF FUEL AND OIL - continued			
		Propane GALS (h)	Propane Cost (i)	LNG GALS (j)	LNG Cost (k)
14	On Hand Beginning of Year.....	0	0	178,968	121,563
15	Received During Year.....	0	0	1,034,794	620,888
16	TOTAL	0	0	1,213,762	742,451
17	Used During Year (Note A).....	0	0	1,057,042	643,867
18	(Boiler Fuel)				
19					
20					
21					
22					
23					
24	Sold or Transferred.....				
25	TOTAL DISPOSED OF	0	0	1,057,042	643,867
26	BALANCE END OF YEAR	0	0	156,720	98,584

Note A - Indicate specific purpose for which used, e.g., Boiler Oil, Make Oil, Generator Fuel, etc.

UTILITY PLANT - GAS

1. Report below the items 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).
3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative effect of such amounts.
4. Reclassifications or transfers within utility plant accounts should be shown in column (f).

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2							
3							
4		0	0	0	0	0	0
5	2. PRODUCTION PLANT						
6	A. Manufactured Gas Production						
7	304 Land and Land Rights.....	159,063					159,063
8	305 Structures and Improvements.....	18,926		693			18,233
9	306 Boiler Plant Equipment.....						
10	307 Other Power Plant Equipment.....	343	2,368	13			2,698
11	310 Water Gas Generating Equipment...						
12	311 Liquefied Petroleum Gas Equipment.....	4,671		476			4,195
13	312 Oil Gas Generating Equipment.....						
14	313 Generating Equipment - Other Processes.....						
15	315 Catalytic Cracking Equipment.....						
16	316 Other Reforming Equipment.....						
17	317 Purification Equipment.....						
18	318 Residual Refining Equipment.....						
19	319 Gas Mixing Equipment.....	261,280		17,446			243,834
20	320 Other Equipment.....	9,545		381			9,164
21	TOTAL MANUFACTURED GAS PRODUCTION PLANT	453,828	2,368	19,009	0	0	437,187
22	2. STORAGE PLANT						
23	360 Land and Land Rights.....						
24	361 Structures and Improvements.....	97,883		4,697			93,186
25	362 Gas Holders.....						
26	363 Other Equipment.....						
27	TOTAL STORAGE PLANT	97,883	0	4,697	0	0	93,186

UTILITY PLANT - GAS (Concluded)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	4. TRANSMISSION AND DISTRIBUTION PLANT						
2	365.1 Land and Land Rights.....	69,987					69,987
3	365.2 Rights-Of-Way.....						
4	366 Structures and Improvements.....	62,410		27,317			35,093
5	367 Mains.....	6,503,322	28,025	465,453		945,703	7,011,597
6	368 Compressor Station Equipment.....	26,853		1,223			25,629
7	369 Measuring and Regulating Station Equipment.....	605,398	48,357	20,299		191,160	824,616
8	370 Communication Equip/Telemeter....	196,641		7,832			188,809
9	380 Services.....	6,294,992	35,317	298,663	5,857	1,324,779	7,350,568
10	381 Meters.....	1,902,573	338,643	91,103	5,279	180,039	2,324,873
11	382 Meter Installations.....	4,020		318	1,225		2,477
12	383 House Regulators.....						
13	386 Other Property on Cust's Prem.....						
14	387 Other Equipment.....	655		200			455
15	TOTAL TRANSMISSION AND DISTRIBUTION PLANT	15,666,850	450,342	912,408	12,361	2,641,681	17,834,104
16	5. GENERAL PLANT						
17	389 Land and Land Rights.....	59,754					59,754
18	390 Structures and Improvements.....	610,209		38,270			571,938
19	391/391-01 Office Furn & Equip/Comp Equip	316,449	58,652	55,150			319,950
20	392 Transportation Equipment.....	310,257	54,225	93,130			271,352
21	393 Stores Equipment.....						
22	394 Tools, Shop and Garage Equipment	164,669	10,471	27,752			147,389
23	395 Laboratory Equipment.....						
24	396 Power Operated Equipment.....	3,520		440			3,080
25	397 Communication Equipment.....	50,421		25,641			24,780
26	398 Miscellaneous Equipment.....	461		51			410
27	399 Other Tangible Property.....						
28	TOTAL GENERAL PLANT	1,515,740	123,348	240,434	0	0	1,398,654
29	TOTAL GAS PLANT IN SERVICE	17,734,302	576,057	1,176,549	12,361	2,641,681	19,763,130
30	104 Utility Plant leased to Others.....						
31	105 Property Held for Future Use.....						
32	107 Construction Work in Progress.....	58,972	2,649,726			(2,684,833)	23,864
	108 Accumulated Depreciation						
33	TOTAL UTILITY GAS PLANT	17,793,274	3,225,783	1,176,549	12,361	(43,152)	19,786,994

MISCELLANEOUS NON-OPERATING INCOME (Account 421)

Line No.	Item (a)	Amount (b)
1	Miscellaneous Income	720,606
2	O&M Contracts	528,353
3	Gain on Plant Retirements	0
4		
5		
6	TOTAL	1,248,959

OTHER INCOME DEDUCTIONS (Account 426)

Line No.	Item (a)	Amount (b)
7	Loss on Plant Retirements	139,091
8	Boiler Demolition Expense	161,514
9	Other Deductions	2,239,883
10		
11		
12		
13		
14	TOTAL	2,540,488

MISCELLANEOUS CREDITS TO SURPLUS (Account 434)

Line No.	Item (a)	Amount (b)
15		
16		
17		
18		
19		
20		
21		
22	TOTAL	0

MISCELLANEOUS DEBITS TO SURPLUS (Account 435)

Line No.	Item (a)	Amount (b)
23	Pilot - City of Holyoke	1,080,940
24	Pilot - Others	79,768
25		
26		
27		
28		
29		
30	TOTAL	1,160,708

APPROPRIATIONS OF SURPLUS (Account 436)

Line No.	Item (a)	Amount (b)
31	Bond Principal Payments	208,333
32	Note Payable to City	1,162,000
33	Note Payable to Bank	195,857
34		
35		
36		
37		
38	TOTAL	1,566,191

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

Line No.	Acct. No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue per M.C.F. (\$0.0000) (d)
1	482	Municipal B	64,009	705,923	11.0286
2					
3					
4		TOTALS	64,009	705,923	11.0286

Line No.	Acct. No.	Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue per K.W.H. (cents) (\$0.0000) (d)
5	444	Municipal: (Other Than Street Lighting)	18,863,340	2,258,283	0.1197
6					
7					
8		TOTALS	18,863,340	2,258,283	0.1197
9					
10		Street Lighting	3,060,973	418,785	0.1368
11		TOTALS	3,060,973	418,785	0.1368
12					
13					
14					
15					
16					
17					
19		TOTALS	21,924,313	2,677,068	0.1221

PURCHASED POWER (Account 555)

Line No.	Names of Utilities from which Electric Energy is Purchased (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Cost per K.W.H. (cents) (\$0.0000) (e)
20					
21		See pages 54 & 55			
22					
23					
24					
25					
26					
27					
28					
29		TOTALS			

SALES FOR RESALE (Account 447)

Line No.	Names of Utilities from which Electric Energy is Purchased (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Revenues per K.W.H. (cents) (\$0.0000) (e)
30					
31		See pages 52 & 53			
32					
33					
34					
35					
36					
37		TOTALS			

ELECTRIC OPERATING REVENUES (Account 400)

1. Report below the amount of Operating Revenue for the year for each prescribed account and the amount of increase or decrease over the preceding year.

2. If increases and decreases are not derived from previously reported figures explain any inconsistencies.

3. Number of customers should be reported on the basis of number of meters, plus number of flat rate accounts, except that where separate meter readings

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

4. Unmetered sales should be included below. The details of such sales should be given in a footnote.

5. Classification of Commercial and Industrial Sales, Account 442, according to Small (or Commercial) and Large (or Industrial) may be according to the basis of classification regularly used by the respondent if such basis of classification is not greater than 1000 Kw of demand. See Account 442 of the Uniform System of Accounts. Explain basis of classification.

Line No.	Account (a)	Operating Revenues		Kilowatt-hours Sold		Average Number of Customers per Month	
		Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)	Amount for Year (d)	Increase or (Decrease) from Preceding Year (e)	Number for Year (f)	Increase or (Decrease) from Preceding Year (g)
1	SALES OF ELECTRICITY						
2	440 Residential Sales.....	12,824,811	203,964	104,800,774	1,729,603	14,496	(13)
3	442 Commercial and Industrial Sales:						
4	Small (or Commercial) see instr. 5...	20,940,514	482,343	168,397,392	(502,364)	2,114	(5)
5	Large (or Industrial) see instr. 5.....	5,485,593	34,369	63,743,396	6,592,070	55	(2)
6	444 Municipal Sales (pg 22).....	2,677,068	98,804	21,924,313	610,119	95	(2)
7	445 Other Sales to Public Authorities.....						
8	446 Sales to Railroads and Railways.....						
9	448 Interdepartmental Sales (484).....	272,753	23,808				
10	449 Miscellaneous Electric Sales.....	327,502	(1,013)	2,179,409	(4,629)	486	(4)
11	Total Sales to Ultimate Consumers	42,528,241	842,275	361,045,284	8,424,799	17,246	(26)
12	447 Sales for Resale.....	0	0	0	0	N/A	N/A
13	TOTAL SALES OF ELECTRICITY*	42,528,241	842,275	361,045,284	8,424,799	17,246	(26)
14	OTHER OPERATING REVENUES						
15	450 Forfeited Discounts.....						
16	451 Miscellaneous Service Revenues.....	169,292	(19,955)				
17	453 Sales of Water and Water Power.....	6,360	13				
18	454 Rent from Electric Property.....	47,899	852				
19	455 Interdepartmental Rents.....						
20	456 Other Electric Revenues.....	2,252,778	506,694				
21	456 Steam Revenues.....						
22							
23	Miscellaneous Adjustments to Sales.....						
24							
25	Total Other Operating Revenues	2,476,328	487,603				
26	TOTAL ELECTRIC						
27	OPERATING REVENUES	45,004,570	1,329,879				

*Includes revenues from application of fuel clauses 9,156,534.90

Total KWH to which applied 305,014,487

SALES OF ELECTRICITY TO ULTIMATE CONSUMERS

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

Line No.	Account No.	Schedule (a)	K.W.H. (b)	Revenue (c)	Average Revenue per K.W.H. (cents) *(\$0.0000) (d)	Number of Customers (per Bills Rendered)	
						July 31 (e)	December 31 (f)
1	440-00	Residential (ER)	104,800,774	12,824,811	0.1224	14,463	14,441
2	440-01	Residential - Off Peak	0	0	0.0000	0	0
3	440-02	Residential - General Service (EK)	0	0	0.0000	0	0
4	442-00	Commercial (EC)	168,397,392	20,940,514	0.1244	2,108	2,117
5	442-02	Commercial D	0	0	0.0000	0	0
6	442-03	Area Lighting (CL)	2,179,409	327,502	0.1503	486	483
7	442-01	Industrial (EG, LI, HW, SI)	63,743,396	5,485,593	0.0861	56	50
8	444-00	Municipal Lighting (MC)	18,863,340	2,258,283	0.1197	96	94
9	444-01	Street Lighting (SL)	3,060,973	418,785	0.1368	1	1
10	484-00	Interdepartmental Sales		272,753			
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40							
41	TOTAL SALES TO ULTIMATE CONSUMERS						
42	(Page 37 Line 11)		361,045,284	42,528,241	0.1178	17,210	17,186

ELECTRIC OPERATION AND MAINTENANCE EXPENSES

1. Enter in the space provided the operation and maintenance expenses for the year.

2. If the increases and decreases are not divided from previously reported figures explain in footnote.

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	POWER PRODUCTION EXPENSE		
2	STEAM POWER GENERATION		
3	Operation:		
4	500 Operation supervision and engineering.....	83,251	(16,725)
5	501 Fuel.....		
6	502 Steam expense.....	95	(5,429)
7	503 Steam from other sources.....		
8	504 Steam transferred -- Cr.....		
9	505 Electric expenses.....		
10	506 Miscellaneous steam power expenses - Water for Steam (30-502-01).....		
11	507 Rents.....		
12	Total Operation	83,346	(22,154)
13	Maintenance:		
14	510 Maintenance supervision and engineering.....	28,982	(117,348)
15	511 Maintenance of structures.....		
16	512 Maintenance of boiler plant (50-501-04).....		
17	513 Maintenance of electric plant.....		
18	514 Maintenance of miscellaneous steam plant (456).....		
19	Telecom.....	19	19
20	Total Maintenance	29,000	(117,329)
21	TOTAL STEAM POWER GENERATION	112,346	(139,483)
22	NUCLEAR POWER GENERATION		
23	Operation:		
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	Total Operation	0	0
34	Maintenance:		
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	Total Maintenance	0	0
41	TOTAL NUCLEAR POWER GENERATION	0	0
42	HYDRAULIC POWER GENERATION		
43	Operation:		
44	535 Operation supervision and engineering.....	984,026	143,158
45	536 Water for power/Fuel.....	369,572	2,906
46	537 Hydraulic expenses.....	694,028	338,607
47	538 Electric expenses.....		
48	539 Miscellaneous hydraulic power generation expenses.....	390,799	(29,987)
49	540 Rents.....	81,701	27,310
50	Total Operation	2,520,125	481,994

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	HYDRAULIC POWER GENERATION - CONTINUED		
2	Maintenance:		
3	541 Maintenance Supervision and Engineering.....	273,142	(54,626)
4	542 Maintenance of Structures.....	209,044	173,277
5	543 Maintenance of Reservoirs, Dams and Waterways.....	479,903	(66,776)
6	544 Maintenance of Electric Plant.....	2,964	2,964
7	545 Maintenance of Miscellaneous Hydraulic Plant.....	1,934,224	(939,841)
8	Total Maintenance	2,899,276	(885,002)
9	TOTAL HYDRAULIC POWER GENERATION	5,419,401	(403,008)
10	OTHER POWER GENERATION		
11	Operation:		
12	546 Operation Supervision and Engineering.....		
13	547 Fuel.....		
14	548 Operation Expenses.....		
15	549 Miscellaneous Other Power Generation Expenses.....		
16	550 Rents.....		
17	Total Operation	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 OTHER POWER GENERATION	0	0
25	OTHER POWER SUPPLY EXPENSES		
26	555 Purchased Power.....	9,747,549	(828,923)
27	556 System Control and Load Dispatching.....		
28	557 Other Expenses.....	691,207	(37,488)
29	TOTAL OTHER POWER SUPPLY EXPENSES	10,438,756	(866,412)
30	TOTAL POWER PRODUCTION EXPENSES	15,970,503	(1,408,903)
31	TRANSMISSION EXPENSES		
32	Operation:		
33	560 Operation Supervision and Engineering.....	412,999	47,470
34	561 Load Dispatching.....		
35	562 Station Expenses.....	171,484	86,414
36	563 Overhead Line Expenses.....	90	(1,115)
37	564 Underground Line Expenses.....		
38	565 Transmission of Electricity by Others.....	3,036,830	503,711
39	566 Miscellaneous Transmission Expenses.....	16,238	(17,235)
40	567 Rents.....		
41	Total Operation	3,637,642	619,245
42	Maintenance:		
43	568 Maintenance Supervision and Engineering.....		
44	569 Maintenance of Structures.....		
45	570 Maintenance of Station Equipment.....	203,471	134,551
46	571 Maintenance of Overhead Lines.....	38,468	(26,335)
47	572 Maintenance of Underground Lines.....		
48	573 Maintenance of Miscellaneous Transmission Plant.....		
49	Total Maintenance	241,939	108,217
50	TOTAL TRANSMISSION EXPENSES	3,879,581	727,461

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	DISTRIBUTION EXPENSES		
2	Operation:		
3	580 Operation Supervision and Engineering.....	426,892	76,622
4	581 Load Dispatching.....		
5	582 Station Expenses.....	216,854	139,194
6	583 Overhead Line Expenses.....		
7	584 Underground Line Expenses.....		
8	585 Street Lighting and Signal System Expenses (852 Communications).....	98,881	(22,270)
9	586 Meter Expenses.....	158,577	(5,385)
10	587 Customer Installations Expenses.....	205,870	(22,846)
11	588 Miscellaneous Distribution Expenses (163's incl).....	399,318	215,188
12	589 Rents.....		
13	Telecom (163 & 852 incl).....	995,359	82,696
14	Total Operation	2,501,752	463,200
15	Maintenance:		
16	590 Maintenance supervision and engineering.....	142,936	(54,805)
17	591 Maintenance of Structures.....		
18	592 Maintenance of Station Equipment.....	84,987	37,886
19	593 Maintenance of Overhead Lines.....	1,738,710	547,656
20	594 Maintenance of Underground Lines.....	817,364	410,287
21	595 Maintenance of Line Transformers.....	7,483	(11,775)
22	596 Maintenance of Street Lighting and Signal Systems.....	104,922	(17,012)
23	597 Maintenance of Meters.....	17,919	5,096
24	598 Maintenance of Miscellaneous Distribution Plant.....	9,338	(2,010)
25	Telecom.....	56,351	17,287
26	Total Maintenance	2,980,011	932,609
27	TOTAL DISTRIBUTION EXPENSES	5,481,762	1,395,809
28	CUSTOMER ACCOUNTS EXPENSES		
29	Operation:		
30	901 Supervision.....		
31	902 Meter Reading Expenses.....	133,892	(10,151)
32	903 Customer Records and Collection Expenses.....	326,860	(3,005)
33	904 Uncollectable Accounts.....	222,855	41,356
34	Telecom.....	1,254	(303)
35	TOTAL CUSTOMER ACCOUNTS EXPENSES	684,862	27,897
36	SALES EXPENSES		
37	Operation:		
38	911 Supervision.....		
39	912 Demonstrating and Selling Expenses.....	45,670	15,400
40	913 Advertising Expenses.....	25,564	10,870
41	Telecom.....	211,117	60,827
42	TOTAL SALES EXPENSES	282,351	87,097
43	ADMINISTRATIVE AND GENERAL EXPENSES		
44	Operation:		
45	920 Administrative and General Salaries.....	930,321	48,383
46	921 Office Supplies and Expenses.....	485,810	22,539
47	922 Administrative Expenses Transferred - Cr.....		
48	923 Outside Services Employed.....	622,805	(245,160)
49	924 Property Insurance.....	424,214	41,593
50	925 Injuries and Damages.....	(46,215)	(190,467)
51	926 Employees Pensions and Benefits.....	4,181,722	194,077
52	928 Regulatory Commission Expenses.....		
53	929 Duplicate Charges - Cr.....		
54	930 Miscellaneous General Expenses.....	565,296	(44,647)
55	931 Rents.....		
56	Telecom.....	329,264	35,173
57	Total Operation	7,493,216	(138,509)

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	ADMINISTRATIVE AND GENERAL EXPENSES - CONTINUED		
2	Maintenance:		
3	932 Maintenance of General Plant.....	374,770	72,281
4	933 Transportation expense.....		
5	Telecom.....	38,456	19,986
6	Total Maintenance	413,227	92,267
7	TOTAL ADMINISTRATIVE AND GENERAL EXPENSES	7,906,443	(46,242)
8	TOTAL ELECTRIC OPERATION AND MAINTENANCE EXPENSES	34,205,503	783,119

SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	OPERATION (b)	MAINTENANCE (c)	TOTAL (d)
9	Power Production Expenses			
10	Electric Generation			
11	Steam Power.....	83,346	29,000	112,346
12	Nuclear Power.....	0	0	0
13	Hydraulic Power.....	2,520,125	2,899,276	5,419,401
14	Other Power.....	0	0	0
15	Other Power Supply Expenses.....	10,438,756	0	10,438,756
16	Total Power Production Expenses	13,042,226	2,928,277	15,970,503
17	Transmission Expenses.....	3,637,642	241,939	3,879,581
18	Distribution Expenses.....	2,501,752	2,980,011	5,481,762
19	Customer Accounts Expenses.....	684,862	0	684,862
20	Sales Expenses.....	282,351	0	282,351
21	Administrative and General Expenses.....	7,493,216	413,227	7,906,443
22				
23	TOTAL ELECTRIC OPERATION AND MAINTENANCE EXPENSES	27,642,049	6,563,453	34,205,503

24	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 23 (d), Depreciation (Acct 403) and Amortization (Acct 407), (Page 13)	85.17%
25	Total salaries and wages of electric department for year, including amounts charged to oper- ating expenses, construction and other accounts (Telecom portion of wages is 573,237.95)	8,951,882
26	Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees)	100.0

GAS OPERATING REVENUES (Account 400)

1. Report below the amount of Operating Revenue for the year for each prescribed account and the amount of increase or decrease over the preceding year.

2. If increases and decreases are not derived from previously reported figures explain any inconsistencies.

3. Number of customers should be reported on the basis of number of meters, plus number of flat rate accounts, except that where separate meter readings are added for billing purposes, one customer shall be counted for each group of meters so added. The average number of customers means the average of the 12 figures at the close of each month. If the customer count in the residential service classification includes customers counted more than once because of special services, such as water, heating, etc., indicate in a footnote the number of such duplicate customers included in the classification.

4. Unmetered sales should be included below. The details of such sales should be given in a footnote.

5. Classification of Commercial and Industrial Sales, Account 481, according to Small (or Commercial) and Large (or Industrial) may be according to the basis of classification regularly used by the respondent.

Line No.	Account (a)	Operating Revenues		MCF Sold (1000 BTU)		Average Number of Customers per Month	
		Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)	Amount for Year (d)	Increase or (Decrease) from Preceding Year (e)	Number for Year (f)	Increase or (Decrease) from Preceding Year (g)
1	SALES OF GAS						
2	480 Residential Sales.....	9,442,297	1,556,306	763,859.0	129,448.2	9,530	130
3	481 Commercial and Industrial Sales:						
4	Small (or Commercial) see instr. 5...	6,999,777	1,019,563	615,578.0	78,861.4	1,017	13
5	Large (or Industrial) see instr. 5.....	3,620,681	639,935	474,253.8	39,898.5	29	0
6	482 Municipal Sales (pg 22).....	705,923	87,080	64,008.6	7,021.4	40	(1)
7	483 Other Sales (481) Interruptible.....	1,921,391	(2,224)	181,778.5	(2,669.4)	38	1
8	485 Miscellaneous Gas Sales (484).....	77,762	18,678	21,168.0	4,203.0	21	0
9							
10							
11	Total Sales to Ultimate Consumers	22,767,830	3,319,339	2,120,645.9	256,763.1	10,675	143
12	483 Sales for Resale.....	0	(963,750)		0.0	N/A	N/A
13	TOTAL SALES OF GAS*	22,767,830	2,355,589	2,120,645.9	256,763.1	10,675	143
14	OTHER OPERATING REVENUES						
15	487 Forfeited Discounts.....						
16	488 Miscellaneous Service Revenues.....	58,038	(3,835)				
17	489 Revenue from Trans of Gas of Others						
18	490 Sales of Prod Extracted from Nat Gas						
19	491 Revenue from Nat Gas Proc by Others						
20	493 Rent from Gas Property.....	1,333	0				
21	494 Interdepartmental Rents.....						
22	495 Other Gas Revenue.....						
23							
24							
25	Total Other Operating Revenues	59,371	(3,835)				
26	TOTAL GAS						
27	OPERATING REVENUES	22,827,201	2,351,754				

*Includes revenue from application of.....

Purchased Price Adjustment Clauses	Fuel Clauses
	11,111,710
Total MCF to Which Applied	1,938,867.4

SALES OF GAS TO ULTIMATE CONSUMERS

Report by account number the M.C.F. sold, the amount derived and the number of customers under each filed schedule or contract. Municipal sales, Contract sales and Unbilled sales may be reported separately in total.

Line No.	Account No.	Schedule (a)	M.C.F. (1000 BTU) (b)	Revenue (c)	Average Revenue per M.C.F. (cents) *(\$0.0000) (d)	Number of Customers (per Bills Rendered)	
						July 31 (e)	December 31 (f)
1	480-00	Residential	763,859	9,442,297	12.3613	9,261	9,728
2	481-01	Commercial	615,578	6,999,777	11.3711	814	1,151
3	481-03	Industrial	474,254	3,620,681	7.6345	28	30
4	481-04	Interruptible	181,779	1,921,391	10.5700	29	40
5	482-01	Municipal	64,009	705,923	11.0286	38	43
6	484-00	Interdepartmental Sales	21,168	77,762	3.6736	21	21
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41	TOTAL SALES TO ULTIMATE CONSUMERS						
42	(Page 43 Line 11)		2,120,646	22,767,830	10.7363	10,191	11,013

GAS OPERATION AND MAINTENANCE EXPENSES

1. Enter in the space provided the operation and maintenance expenses for the year.
2. If the increases and decreases are not divided from previously reported figures explain in footnote.

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	PRODUCTION EXPENSES		
2	MANUFACTURED GAS PRODUCTION EXPENSES		
3	STEAM PRODUCTION		
4	Operation:		
5	700 Operation supervision and engineering.....		
6	701 Operation Labor.....		
7	702 Boiler Fuel.....	None	None
8	703 Miscellaneous steam expenses.....		
9	704 Steam transferred - Cr.....		
10	Total Operation	0	0
11	Maintenance:		
12	705 Maintenance supervision and engineering.....		
13	706 Maintenance of structures and improvements.....	None	None
14	707 Maintenance of boiler plant equipment.....		
15	708 Maintenance of other steam production plant.....		
16	Total Maintenance	0	0
17	TOTAL STEAM PRODUCTION	0	0
18	MANUFACTURED GAS PRODUCTION		
19	Operation:		
20	710 Operation supervision and engineering.....		
21	Production labor and expenses:		
22	711 Steam Expenses.....		
23	712 Other Power Expenses.....		
24	715 Water gas generating expenses.....		
25	716 Oil gas generating expenses.....		
26	717 Liquefied petroleum gas expenses.....		
27	718 Other process production expenses.....		
28	Gas fuels:		
29	721 Water gas generator fuels.....		
30	722 Fuel for oil gas.....	None	None
31	723 Fuel for liquefied petroleum gas process.....		
32	724 Other gas fuels.....		
33	Gas Raw Materials:		
34	726 Oil for water gas.....		
35	727 Oil for gas.....		
36	728 Liquefied petroleum gas.....		
37	729 Raw materials for other gas processes.....		
38	730 Residuals expenses.....		
39	731 Residuals produced - Cr.....		
40	732 Purification expenses.....		
41	733 Gas mixing expenses.....		
42	734 Duplicate charges - Cr.....		
43	735 Miscellaneous production expenses.....		
44	736 Rents.....		
45	Total Operation	0	0
46	Maintenance:		
47	740 Maintenance supervision and engineering.....		
48	741 Maintenance of structures and improvements.....	None	None
49	742 Maintenance of production equipment.....		
50	Total Maintenance	0	0
51	TOTAL MANUFACTURED GAS PRODUCTION	0	0

GAS OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	OTHER GAS SUPPLY EXPENSES		
2	Operation:		
3	804 Natural gas city gate purchases.....	12,298,319	1,413,259
4	805 Other gas purchases.....	643,867	116,253
5	806 Exchange gas.....		
6	807 Purchased gas expense.....		
7	810 Gas used for compressor station fuel - Cr.....		
8	811 Gas used for products extraction - Cr.....		
9	812 Gas used for other utility operation - Cr.....	(16,915)	(5,290)
10	813 Other gas supply expenses.....	240,408	596
11	TOTAL GAS SUPPLY EXPENSES	13,165,680	1,524,818
12	TOTAL PRODUCTION EXPENSES	13,165,680	1,524,818
13	LOCAL STORAGE EXPENSES		
14	Operation:		
15	840 Operation supervision and engineering.....		
16	841 Operation labor and expenses.....		
17	842 Rents.....		
18	Total Operation	0	0
19	Maintenance:		
20	843 Maintenance supervision and engineering.....		
21	844 Maintenance of structures and improvements.....		
22	845 Maintenance of gas holders.....		
23	846 Maintenance of other equipment.....	500	(1,496)
24	Total Maintenance	500	(1,496)
25	TOTAL STORAGE EXPENSES	500	(1,496)
26	TRANSMISSION AND DISTRIBUTION EXPENSES		
27	Operation:		
28	850 Operation supervision and engineering.....	257,898	(48,759)
29	851 System control and load dispatching.....	184,906	5,361
30	852 Communication system expenses.....	179,254	18,225
31	853 Compressor station labor and expenses.....	307,779	(149)
32	855 Fuel and power for compressor station.....		
33	857 Measuring and regulating station expenses.....	59,677	(9,900)
34	858 Transmission and compression of gas by others.....		
35	874 Mains and services expenses.....		
36	878 Meter and house regulator expenses (incl 10-866-00).....	214,932	45,718
37	879 Customer installation expenses.....	510,614	23,784
38	880 Other expenses (10-814-00 & 163 & 888-02).....	645,370	(1,604)
39	881 Rents.....		
40	Total Operation	2,360,429	32,676
41	Maintenance:		
42	885 Maintenance supervision and engineering.....		
43	886 Maintenance of structures and improvements.....		
44	887 Maintenance of mains.....	432,632	(102,264)
45	888 Maintenance of compressor station equipment.....	166,728	58,310
46	889 Maintenance of measuring and regulating station equipment.....	4,937	3,208
47	892 Maintenance of services.....	158,920	(150,684)
48	893 Maintenance of meters and house regulators.....	132,544	31,461
49	894 Maintenance of other equipment (10-853-01,03).....	97,214	(16,296)
50	Total Maintenance	992,975	(176,264)
51	TOTAL TRANSMISSION AND DISTRIBUTION EXPENSES	3,353,404	(143,588)

GAS OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	CUSTOMER ACCOUNTS EXPENSES		
2	Operation:		
3	901 Supervision.....		
4	902 Meter reading expenses.....	80,172	2,888
5	903 Customer records and collection expenses.....	176,001	(1,523)
6	904 Uncollectible accounts.....	93,009	30,573
7	905 Miscellaneous customer accounts expenses.....		
8	TOTAL CUSTOMER ACCOUNTS EXPENSES	349,183	31,938
9	SALES EXPENSES		
10	Operation:		
11	911 Supervision.....		
12	912 Demonstrating and selling expenses.....	25,005	8,706
13	913 Advertising expenses.....	9,170	1,765
14	916 Miscellaneous sales expenses.....		
15	TOTAL SALES EXPENSES	34,175	10,471
16	ADMINISTRATIVE AND GENERAL EXPENSES		
17	Operation:		
18	920 Administrative and general salaries.....	564,110	20,502
19	921 Office supplies and expenses.....	194,485	16,861
20	922 Administrative expenses transferred - Cr.....		
21	923 Outside services employed.....	156,834	(1,398)
22	924 Property insurance.....	111,550	24,285
23	925 Injuries and damages.....	5,764	(40,027)
24	926 Employees pension and benefits.....	1,979,453	19,596
25	928 Regulatory commission expenses.....		
26	929 Duplicate charges - Cr.....		
27	930 Miscellaneous general expenses.....	222,098	(68,645)
28	931 Rents.....		
29	Total Operation	3,234,294	(28,825)
30	Maintenance:		
31	932 Maintenance of general plant.....	102,734	3,791
32	TOTAL ADMINISTRATIVE AND GENERAL EXPENSES	3,337,028	(25,034)
33	TOTAL GAS OPERATION AND MAINTENANCE EXPENSES	20,239,970	1,397,109

SUMMARY OF GAS OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	OPERATION (b)	MAINTENANCE (c)	TOTAL (d)
34	Steam production.....	0	0	0
35	Manufactured gas production.....	0	0	0
36	Other gas supply expenses.....	13,165,680	0	13,165,680
37	Total Production Expenses	13,165,680	0	13,165,680
38	Local storage expenses.....	0	500	500
39	Transmission and distribution expenses.....	2,360,429	992,975	3,353,404
40	Customer accounts expenses.....	349,183	0	349,183
41	Sales Expenses.....	34,175	0	34,175
42	Administrative and General Expenses.....	3,234,294	102,734	3,337,028
43	TOTAL GAS OPERATION AND MAINTENANCE EXPENSES	19,143,761	1,096,209	20,239,970
44	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 47, Line 43 (d), Depreciation (Acct 403) and Amortization (Acct 407), (Page 13)			93.92%
45	Total salaries and wages of gas department for year, including amounts charged to operating expenses, construction and other accounts			3,515,642
46	Total number of employees of gas department at end of year including administrative, operating, maintenance, construction and other employees (including part time employees)			41.0

If gas is purchased or sold at two or more different rates, the amounts at each rate should be shown in the following tables.

SALES FOR RESALE (Account 483)

Line No.	Names of Companies to which Gas is Sold (a)	Where Delivered and Where and How Measured (b)	M.C.F. (1000 BTU) (c)	Rate per M.C.F. (\$0.0000) (d)	Amount (e)
1					0
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
		TOTALS	0	0.0000	0

SALES OF RESIDUALS (Accounts 730, 731)

State the revenues and expenses of the respondent resulting from the sale of residuals.

Line No.	Kind (a)	Revenue (b)	Inventory Cost (c)	Labor, Handling, Selling, Etc. (d)	Total Cost (e) (f)	Net Revenue (g)
14						
15						
16						
17						
18						
19						
20						
21						
	TOTALS	0	0	0	0	0

PURCHASED GAS (Accounts 804-806)

Line No.	Name of Companies from which Gas is Purchased (a)	Where Received and Where and How Measured (b)	M.C.F. (1000 BTU) (c)	Rate per M.C.F. (\$0.0000) (d)	Amount (e)
22	Cargill Energy Services	TGP Zone 5	59,000	3.8933	229,702
23	Cokinos Energy	TGP Zones 0,1,6	394,896	3.5415	1,398,543
24	Total Gas & Power	TGP Zones 0,1,6	526,271	3.7347	1,965,489
25	BP Energy Company	TGP Zones 0,1,6	1,145,801	3.8318	4,390,440
26	Anadarko Petroleum	TGP Zones 0,1,6	89,811	3.4150	306,705
27	Other (LNG Reservation: CGMA)	Ludlow, MA		10.0000	400,000
28	Other (LNG Reservation: GDF Suez)	Everett, MA		5.0600	152,400
29	Other (LNG Reservation: UGI)	Temple, PA		5.7500	92,000
30	LNG (805-01) Commodity "Used"	Holyoke, MA	92,545	6.9573	643,867
31	Consulting/Admin (Schneider Elec)				72,000
32	Pipeline Demand (Tenn Gas P/L)				2,754,336
33	Pipeline Var Chg (Tenn Gas P/L)				588,594
34	Pipeline Inj Chg (Tenn Gas P/L)				26,534
35					
		TOTALS	2,308,324	5.6407	13,020,610

TAXES CHARGED DURING YEAR

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

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

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

Line No.	Kind of Tax (a)	Total Taxes Charged During Year (omit cents) (b)	Distribution of Taxes Charged (omit cents)							
			(Show utility department where applicable and account charged)							
			Electric (Acct. 408, 409) (c)	Gas (Acct. 408,409) (d)	(e)	(f)	(g)	(h)	(i)	(j)
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	TOTAL	0	0	0	0	0	0	0	0	0

N/A

OTHER UTILITY OPERATING INCOME (Account 414)

Report below the particulars called for in each column.

Line No.	Property (a)	Amount of Investment (b)	Amount of Revenue (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13			NONE		
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	TOTALS	0	0	0	0

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

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

Line No.	Item (a)	Electric Department (c)	Gas Department (d)	Other Utility Department (d)	Total (e)
1	Revenues:				
2	Merchandising sales, less discounts,				
3	allowances and returns.....	119	201,154		201,273
4	Contract Work.....				
5	Commissions.....				
6	Other (List according to major classes).....				
7					
8					
9					
10	Total Revenues	119	201,154	0	201,273
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to Major				
15	classes of cost).....		78,924		78,924
16					
17	Labor				
18	Materials				
19					
20					
21					
22					
23					
24					
25					
26	Sales expenses.....				0
27	Customer accounts expenses.....				0
28	Administrative and general expenses.....				0
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47	TOTAL COSTS AND EXPENSES	0	78,924	0	78,924
48	Net Profit (or Loss)	119	122,230	0	122,349

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 Line (c)	Point of Delivery (d)	Sub Station (e)	Kw or Kva of Demand (Specify which)		
						(f)	(g)	(h)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								

N/A

SALES FOR RESALE (Account 447) - Continued

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

6. The number of Kilowatt-hours sold should be the quantities shown by the bills rendered to the purchasers.
 7. Explain any amounts entered in column (n) such as fuel or other adjustments.
 8. If a contract covers several points of delivery and small amounts of electric energy are delivered at each point, such sale may be grouped.

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Revenue (Omit Cents)				Revenue per kwh (cents) (0.0000) (p)	Line No.
			Demand Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								13
								14
								15
								16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30
								31
								32
								33
								34
								35
								36
	TOTALS	0	0	0	0	0	0.0000	37

PURCHASED POWER (Account 555) - Continued

(except interchange power)

**** Includes Transmission Charges**

4. If receipt of power is at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; seller owned or leased, SS.
5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billing, this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in 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 purchased should be the quantities shown by the power bills.
7. Explain any amount entered in column (n) such as fuel or other adjustments.

Type of Demand Reading (i)	Voltage at Which Delivered (j)	Kilowatt-hours (k)	Cost of Energy (Omit Cents)				Cost per KWH (Cents) (0.0000) (p)	Line No.	
			Charges (l)	Energy Charges (m)	Other Charges (n)***	Total (o)			
60 Min.	115kv	13,518,297	116,941	65,570	262,270	444,781	3.2902	1	
60 Min.	115kv	65,800	87,515	10,800	3,463	101,778	154.6778	2	
60 Min.	115kv	33,829,130	2,071,514	276,907	2,330	2,350,751	6.9489	3	
60 Min.	115kv	30,408,160	2,085,252	220,001	23,586	2,328,839	7.6586	4	
60 Min.	115kv	1,107,930	96,608	216,322	4,680	317,610	28.6670	5	
60 Min.	115kv	18,736,000		858,893		858,893	4.5842	6	
60 Min.	115kv	40,800,000		2,403,120		2,403,120	5.8900	7	
60 Min.	115kv				11,839	11,839		8	
60 Min.	115kv				2,457,452	2,457,452		9	
60 Min.	115kv				130,846	130,846		10	
60 Min.	115kv				61,184	61,184		11	
60 Min.	115kv	21,770,040	38,981	1,996,952	79,179	2,115,112	9.7157	12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	
								21	
								22	
								23	
								24	
								25	
								26	
								27	
								28	
								29	
								30	
***includes transmission charges								31	
								32	
								33	
								34	
								35	
								36	
								37	
		TOTALS	160,235,357	4,496,811	6,048,565	3,036,829	13,582,205	8.4764	

INTERCHANGE POWER (Included in Account 555)

1. Report below the Kilowatt-hours received and delivered during the year and the net charge or credit under interchange power agreements.
2. Provide subheadings and classify interchanges as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A., Cooperatives, and (7) Other Public Authorities. For each interchange across a state line place an "X" in column (b).
3. Particulars of settlements for interchange power shall be furnished in Part B. Details of Settlement for Interchange Power. If settlement for any transaction also includes credit or debit amounts other than for increment generation expenses, show such other component amounts separately, in addition to debit or credit for increment generation expenses, and give a brief explanation of the factors and principles under which such other component amounts were determined. If such settlement represents the net of debits and credits under an interconnection, power pooling, coordination, or other such arrangement, submit a copy of the annual summary of transactions and billings among the parties to the agreement. If the amount of settlement reported in this schedule for any transaction does not represent all of the charges and credits covered by the agreement, furnish in a footnote a description of the other debits and credits and state the amounts and accounts in which such other amounts are included for the year.

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

Line No.	Name of Company (a)	Interchange Across State Lines (b)	Point of Interchange (c)	Voltage at Which Interchanged (d)	Kilowatt-hours			Amount of Settlement (h)
					Received (e)	Delivered (f)	Net Difference (g)	
1	NEPEX		Holyoke, MA	115kv	381,901,020	402,678,466	(20,777,446)	(1,419,998)
2	ICAP Sales		Holyoke, MA	115kv			*	206,908
3	NEPOOL GIS Sales		Holyoke, MA	115kv			**	(859,554)
4	Aubin Prop (c/o Open Square)		Holyoke, MA	115kv		1,563	(1,563)	60,489
5	Solar Constellation					5,354	(5,354)	274,509
6	Solar Citizens					976	(976)	46,475
7	SWSC (c/o Cobble Mt)***		Westfield, MA	69kv		21,790,040	(21,790,040)	893,225
8	*Capacity Demand - kW only							
9	**Renewable Certificate - MWh only							
10	***This Purchased Power generation's costs are netted in a Miscellaneous Income Account 0040-CM-421-421-00-4							
11								
12				TOTALS	381,901,020	424,476,399	(42,575,379)	(797,946)

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)	Amount (k)
13	NEPEX	Nepool Expenses	491,948
14	NEPEX	NEPEX Interchange	(1,705,038)
15	Integrays Energy Services Inc	Private Utility Interchange	(401,475)
16	Exelon Generation Co LLC	Private Utility Interchange	(476,872)
17	Spectron Energy, Inc		1,788
18	Noble & Wickersham LLP		390
19	Kleinschmidt Associates		14,662
20	TFS Energy Futures LLC		500
21	Aubin Properties (c/o Open Square)	Non Utility Generator	60,489
22	Solar Constellation	Non Utility Generator	274,509
23	Solar Citizens	Non Utility Generator	46,475
24	SWSC (c/o Cobble Mt)***	Non Utility Generator	894,678
25			
26			
27			
28			
29		TOTALS	(797,946)

ELECTRIC ENERGY ACCOUNT

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

Line No.	Item (a)	Kilowatt-hours (b)
1	SOURCES OF ENERGY	
2	Generation (excluding station use):	
3	Steam.....	0
4	Nuclear.....	
5	Hydro.....	253,400,670
6	Other.....	
7	Total Generation	253,400,670
8	Purchases.....	160,235,357
9	In (gross).....	
10	Interchanges..... Out (gross).....	
11	Net (Kwh).....	(42,575,379)
12	Received.....	
13	Transmission for/by others (wheeling)..... Delivered.....	
14	Net (kwh).....	
15	TOTAL	371,060,648
16	DISPOSITION OF ENERGY	
17	Sales to ultimate consumers (including interdepartmental sales).....	361,045,284
18	Sales for resale.....	0
19	Energy furnished without charge.....	
20	Energy used by the company (excluding station use).....	3,472,799
21	Electric department only.....	
22	Energy losses:	
23	Transmission and conversion losses.....	
24	Distribution losses.....	
25	Unaccounted for losses.....	
26	Total Energy Losses	6,542,565
27	Energy losses as percent of total on line 15..... 1.76%	
28	TOTAL	371,060,648

MONTHLY PEAKS AND OUTPUT

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

Line No.	Month (a)	MONTHLY PEAK					Monthly Output (kwh) (See Inst 4) (g)	
		Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)		
29	January	59,860	Thurs	24	18:00	60 Min	33,319,516	
30	February	54,652	Mon	4	19:00	60 Min	29,271,960	
31	March	53,698	Tues	19	12:00	60 Min	30,323,429	
32	April	48,651	Fri	12	13:00	60 Min	26,881,255	
33	May	63,969	Fri	31	15:00	60 Min	28,020,267	
34	June	70,369	Mon	24	16:00	60 Min	31,209,888	
35	July	75,649	Thurs	18	14:00	60 Min	38,569,170	
36	August	64,373	Wed	28	16:00	60 Min	33,061,580	
37	September	69,593	Wed	11	17:00	60 Min	28,652,998	
38	October	49,475	Wed	2	14:00	60 Min	28,188,371	
39	November	55,216	Mon	25	18:00	60 Min	29,482,620	
40	December	63,396	Sun	22	18:00	60 Min	34,079,594	
41	TOTAL							371,060,648

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

1. Large stations for the purpose of this schedule are steam and hydro stations of 2,500 Kw* or more of installed capacity and other stations of 500 Kw* or more of installed capacity (name plate ratings). (*10,000 Kw and 2,500 Kw, respectively, if annual electric operating revenues of respondent are \$25,000,000 or more.)
2. If any plant is leased, operated under a license from the Federal Power Commission, or operated as a joint facility, indicate such facts by the use of asterisks and footnotes.
3. Specify if total plant capacity is reported in kva instead of kilowatts as called for on line 5.
4. If peak demand for 60 minutes is not available, give that which is available, specifying period.
5. If a group of employees attends more than one generating station, report on line 11 the approximate average number of employees assignable to each station.
6. If gas is used and purchased on a therm basis, the B.t.u. content of the gas should be given and the quantity of fuel consumed converted to M cu. ft.
7. Quantities of fuel consumed and the average cost per unit of fuel consumed should be consistent with charges to expense accounts 301 and

Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)
1	Kind of plant (steam, hydro, int. com., gas turbine).....	Cabot 6 & 8 STEAM		Hadley Falls 1 & 2 HYDRO
2	Type of plant construction (conventional, outdoor boiler, full outdoor, etc.).....	Conventional		Conventional
3	Year originally constructed.....	1902		1954
4	Year last unit was installed.....	1961		1984
5	Total installed capacity (maximum generator name plate ratings in kw).....	20,000		33,400
6	Net peak demand on plant-kilowatts (60 min.).....	19,306		33,400
7	Plant hours connected to load.....	0		8,142
8	Net continuous plant capability, kilowatts:			
9	(a) When not limited by condenser water.....	19,306		
10	(b) When limited by condenser water.....	0		
11	Average number of employees.....	1		29
12	Net generation, exclusive of station use.....			185,069,680
13	Cost of plant (omit cents):			
14	Land and land rights.....	0		986,920
15	Structures and improvements.....	1,406,755		4,270,530
16	Reservoirs, dams, and waterways.....			16,037,837
17	Equipment costs.....	295,734		11,136,707
18	Roads, railroads, and bridges.....			
19	Total Cost	1,702,490		32,431,995
20	Cost per kw of installed capacity	85		971
21	Production expenses:			
22	Operation supervision and engineering.....	83,251		678,978
23	Station labor.....			
24	Fuel.....	0		1,003,535
25	Supplies and expenses, including water.....	95		
26	Maintenance.....	29,000		1,436,017
27	Rents.....			56,373
28	Steam from other sources.....			
29	Steam transferred -- Credit.....	0		
30	Total Production Expenses	112,346		3,174,903
31	Expenses per net Kwh (5 places)	N/A		0.01716
32	Fuel: Kind.....	OIL	GAS	
33	Unit: (Coal-tons of 2,000 lb.) (Oil-barrels of 42 gals.) (Gas-M cu. ft.) (Nuclear, indicate).....	Barrels	MCF	
34	Quantity (units) of fuel consumed.....			
35	Average heat content of fuel (B.t.u. per lb. of coal, per gal. of oil, or per cu. ft. of gas).....			
36	Average cost of fuel per unit, del. f.o.b. plant.....			
37	Average cost of fuel per unit consumed.....			
38	Average cost of fuel consumed per million B.t.u.....			
39	Average cost of fuel consumed per kwh net gen.....			
40	Average B.t.u. per kwh net generation.....			

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

547 as shown on Line 24.

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

9. If any plant is equipped with combinations of steam, hydro, internal combustion engine or gas turbine equipment, each should be reported as a separate plant. However, if a gas turbine unit functions in a combined

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

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

Plant (e)	Plant (f)	Plant (g)	Plant (h)	Plant (i)	Plant (j)	Line No.
						1
						2
						3
						4
						5
						6
						7
						8
						9
						10
						11
						12
						13
						14
						15
						16
						17
						18
						19
						20
						21
						22
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STEAM GENERATING STATIONS

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

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

Line No.	Name of Station (a)	Location of Station (b)	Number and Year Installed (c)	Boilers			
				Kind of Fuel and Method of Firing (d)	Rated Pressure in lbs. (e)	Rated Steam Temperature* (f)	Rated Max. Continuous M lbs. Steam per Hour (g)
1	Municipal Electric Station**	Cabot Street Holyoke, MA 01040	#5	Oil, Gas	500	750	180,000
2			1961	Automatic	PSIG		
3							
4							
5			#7	Oil, Gas	550	750	80,000
6			2005	Automatic	PSIG		
7							
8							
9			#8	Oil, Gas	550	750	80,000
10			2005	Automatic	PSIG		
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							

Note References:

* Indicates reheat boilers thusly, 1050/1000.

** Retired Effective 5/31/13

STEAM GENERATING STATIONS -- Continued

expenses or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.
 4. Designate any generating station or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent and how determined. Specify whether lessee is an associated company.

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

Turbine-Generators*

Year Installed (h)	Type+ (l)	Steam Pressure at Throttle p.s.i.g. (j)	R.P.M. (k)	Name Plate Rating in Kilowatts		Hydrogen Pressure++		Power Factor (p)	Voltage K.v.+++ (q)	Station Capacity Maximum Name Plate Rating++++ (r)	Line No.
				At Minimum Hydrogen Pressure (l)	At Maximum Hydrogen Pressure (m)	Min. (n)	Max. (o)				
1955**	SC	450	3,600	-	10,000 kw	-	Air	80%	13.8	10,000 kw	1
1952**	SC	450	3,600	-	10,000 kw	-	Air	80%	13.8	10,000 kw	2
											3
											4
											5
											6
											7
											8
											9
											10
											11
											12
											13
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											18
											19
											20
											21
											22
											23
											24
											25
											26
											27
				TOTALS	20,000					20,000	29

Note references:

- ** Retired Effective 5/31/13
- * Report cross-compound turbine-generator units on two lines -- H.P. section and L.P. section.
- + indicate tandem-compound (T.C.); cross-compound (C.C.); all single casing (S.C.); topping unit (T), and noncondensing (N.C.). Show back pressures.
- ++ Designate air cooled generators.
- +++ If other than 3 phase, 60 cycle, indicate other characteristics.
- ++++ Should agree with column (m).

HYDROELECTRIC GENERATING STATIONS

1. Report the information called for concerning generating stations and equipment at end of year. Show associated prime movers and generators on the same line.
2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such

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

Line No.	Name of Station (a)	Location of Station (b)	Name of Stream (c)	Water Wheels			
				Attended or Unattended (d)	Type of Unit* (e)	Year Installed (f)	Gross Static Head with Pond Full (g)
1	#1 Holyoke/Cabot	Electric Station	Connecticut River	Unattended	Vertical Francis	1923	19 Ft.
2	Unit #1	Cabot Street	via Canal System		Vertical Francis	1923	16 Ft.
3	Unit #2				Vertical Kaplan	1938	18 Ft.
4	Unit #3				Vertical Kaplan	1938	18 Ft.
5	Unit #4						
6							
7	#2 Holyoke/Cabot	Sargeant Street	Connecticut River	Unattended	Vertical Kaplan	1938	18 Ft.
8			via Canal System				
9							
10	#3 Holyoke/Cabot	Race Street	Connecticut River	Unattended	Vertical Kaplan	1940	12.5 Ft.
11			via Canal System				
12							
13	#4 Holyoke/Cabot	Cabot Street	Connecticut River	Unattended	Vertical Morgan	1955	18 Ft.
14	Unit #1		via Canal System		Smith		
15	Unit #2						
16							
17	Hadley Falls	Gatehouse Road	Connecticut River	Attended	Vertical Kaplan	1954	50 Ft.
18	Unit #1				Fixed Propeller	1984	50 Ft.
19	Unit #2						
20							
21	Beebe Holbrook	Dwight Street	Connecticut River	Unattended	Vertical Francis	1948	20 Ft.
22	Unit #1		via Canal System		Vertical Francis	1948	20 Ft.
23	Unit #2						
24							
25	Boatlock	Gatehouse Road	Connecticut River	Unattended	Vertical Kaplan	2010	20 Ft.
26	Unit #1		via Canal System		Vertical Francis	1924	20 Ft.
27	Unit #2				Vertical Francis	1924	20 Ft.
28	Unit #3						
29							
30	Skinner	Appleton Street	Connecticut River	Unattended	Vertical Francis	1924	20 Ft.
31			via Canal System				
32							
33	Chemical	South Water Street	Connecticut River	Unattended	Vertical Kaplan	1935	22 Ft.
34	Unit #1		via Canal System		Vertical Kaplan	1935	22 Ft.
35	Unit #2						
36							
37	Riverside 4-7	Water Street	Connecticut River	Unattended	Horizontal Francis	1921	33 Ft.
38	Unit #1		via Canal System		Horizontal Francis	1921	33 Ft.
39	Unit #2				Vertical Francis	1921	33 Ft.
40	Unit #3						
41							
42	Riverside 8	Water Street	Connecticut River	Unattended	Vertical Francis	1931	33 Ft.
43			via Canal System				
44							

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

HYDROELECTRIC GENERATING STATIONS -- Continued

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

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

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

Water Wheels -- Continued					Generators				Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
Design Head (h)	R.P.M. (i)	Maximum hp. Capacity of Unit at Design Head (j)	Year Installed (k)	Voltage (l)	Phase (m)	Frequency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Station (p)		
19'	200	322 HP	1923	4,800	3	60 cy	263	4	966	1
19'	200	322 HP	1923	4,800	3	60 cy	221			2
19'	180	386 HP	1923	4,800	3	60 cy	263			3
19'	180	386 HP	1923	4,800	3	60 cy	219			4
										5
										6
19'	180	1,107 HP	1938	4,800	3	60 cy	993	1	993	7
										8
										9
12'5"	129	716 HP	1940	4,800	3	60 cy	518	1	518	10
										11
										12
19'	138	410 HP	1955	600	3	60 cy	343	2	670	13
							327			14
										15
										16
										17
52'	122	22,000 HP	1954	13,800	3	60 cy	17,600	2	33,400	18
50'	150	21,500 HP	1984	6,900	3	60 cy	15,800			19
										20
										21
19'	200	440 HP	1948	600	3	60 cy	282	2	586	22
19'	200	440 HP	1948	600	3	60 cy	304			23
										24
										25
20'	240	944 HP	2010	6,900	3	60 cy	700	3	3,284	26
20'	106	1,850 HP	1924	6,600	3	60 cy	1,292			27
20'	106	1,850 HP	1924	6,600	3	60 cy	1,292			28
										29
20'	180	400 HP	1924	600	3	60 cy	280	1	280	30
										31
										32
										33
24'	200	1,430 HP	1935	600	3	60 cy	800	2	1,600	34
24'	200	1,430 HP	1935	600	3	60 cy	800			35
										36
										37
33'	4,200	1,250 HP	1921	6,600	3	60 cy	950	3	3,435	38
33'	5,200	1,040 HP	1921	2,300	3	60 cy	750			39
33'	7,150	2,250 HP	1921	6,900	3	60 cy	1,735			40
										41
33'	128	6,000 HP	1931	2,400	3	60 cy	4,500	1	4,500	42
										43
										44
							SUB TOTALS	50,232	22	50,232

HYDROELECTRIC GENERATING STATIONS

1. Report the information called for concerning generating stations and equipment at end of year. Show associated prime movers and generators on the same line.
2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such

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

Line No.	Name of Station (a)	Location of Station (b)	Name of Stream (c)	Water Wheels			
				Attended or Unattended (d)	Type of Unit* (e)	Year Installed (f)	Gross Static Head with Pond Full (g)
1	#5 Hydro (Valley)	Valley Mill Road	Connecticut River via Canal System	Unattended	Vertical Kaplan	1994	26.3 Ft.
2							
3							
4	Albion:						
5	Unit #D	Water Street	Connecticut River via Canal System	Unattended	Vertical Francis	1928	30 Ft.
6	Unit #A				Vertical Francis	1954	30 Ft.
7							
8	Nonotuck	Water Street	Connecticut River via Canal System	Unattended	Vertical Francis	1965	30 Ft.
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21	Note: 1) Albion units are separate stations, combined here by common building						
22							
23	2) Albion & Nonotuck comprise asset Harris Energy						
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							

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

HYDROELECTRIC GENERATING STATIONS -- Continued

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

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

Specify whether lessee is an associated company.

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

Water Wheels -- Continued				Generators					Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
Design Head (h)	R.P.M. (l)	Maximum hp. Capacity of Unit at Design Head (j)	Year installed (k)	Voltage (i)	Phase (m)	Frequency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Station (p)		
27'	277	1060 HP	1994	4,800	3	60 cy	790	1	790	1
										2
										3
										4
26'	180	580 BHP	1928	600	3	60 cy	395	2	676	5
23.7'	225	365 BHP	1954	600	3	60 cy	281			6
										7
32'	150	580 BHP	1965	600	3	60 cy	492	1	492	8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
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										24
										25
										26
										27
										28
										29
										30
										31
										32
										33
										34
						TOTALS	52,190	26	52,190	35

COMBUSTION ENGINE AND OTHER GENERATING STATIONS
(except nuclear stations)

1. Report the information called for concerning generating stations and equipment at end of year. Show associated prime movers and generators on the same line.
2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating station, other than a leased station, or portion thereof, for which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent owner-

Line No.	Name of Station (a)	Location of Station (b)	Prime Movers				
			Diesel or Other Type Engine (c)	Name of Maker (d)	Year Installed (e)	2 or 4 Cycle (f)	Belted or Direct Connected (g)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15				N/A			
16							
17							
18							
19							
20							
21							
22							
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24							
25							
26							
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28							
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33							
34							
35							
36							
37							

COMBUSTION ENGINE AND OTHER GENERATING STATIONS -- Continued
(except nuclear stations)

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

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

Specify whether lessee is an associated company.

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

Prime Movers -- Continued		Generators						Total Installed Generating Capacity in Kilowatts (name plate ratings) (p)	Line No.
Rated hp. of Unit (h)	Total Rated hp. of Station Prime Movers (i)	Year Installed (j)	Voltage (k)	Phase (l)	Frequency or d.c. (m)	Name Plate Rating of Unit in Kilowatts (n)	Number of Units in Station (o)		
									1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
									13
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									29
									30
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									32
									33
									34
									35
									36
						TOTALS			37

N/A

GENERATING STATION STATISTICS (Small Stations)

1. Small generating stations, for the purpose of this schedule, are steam and hydro stations of less than 2,500 KW* and other stations of less than 500 KW* installed capacity (name plate ratings). (*10,000 KW and 2,500 KW, respectively, if annual electric operating revenues of respondent are \$25,000,000 or more)
2. Designate any plant leased from others, operated under a license from the Federal Power Commission, or operated as a joint facility, and give a concise statement of the facts in a footnote.
3. List plants appropriately under subheadings for steam, hydro, nuclear internal combustion engine and gas turbine stations. For nuclear, see instruction 10 page 59.
4. Specify if total plant capacity is reported in kva instead of kilowatts.
5. If peak demand for 60 minutes is not available, give that which is available, specifying period.
6. If any plant is equipped with combustions of steam, hydro, internal combustion engine or gas turbine equipment, each should be reported as a separate plant. However, if the exhaust heat from the gas turbine is utilized in a steam turbine regenerative feed water cycle, report as one plant.

Line No.	Name of Plant (a)	Year Const. (b)	Installed Capacity Name Plate Rating - KW (c)	Peak Demand KW (60 Min.) (d)	Net Generation Excluding Station Use (e)	Cost of Plant (Omit Cents) (f)	Plant Cost Per KW Inst. Capacity (g)	Production Expenses Exclusive of Depreciation and Taxes (Omit Cents)			Kind of Fuel (k)	Fuel Cost Per KWH Net Generation (Cents) (0.0000) (l)
								Labor (h)	Fuel (i)	Other (j)		
1	Holy/Cabot 1-4*	1923	3,147	3,147	10,550,220	1,269,078	403	156,021		141,574	Hydro	2.8208
2	Beebe Holbrook	1948	586	586	710,640	376,023	642	27,594		30,152	Hydro	8.1260
3	Chemical	1935	1,600	1,600	4,172,860	799,049	499	76,734		67,963	Hydro	3.4676
4	Skinner	1924	280	280	1,056,020	376,023	1,343	24,101		28,181	Hydro	4.9509
5	Boatlock	1924	3,094	3,094	14,057,470	3,243,200	1,048	204,454		318,082	Hydro	3.7171
6	Riverside 4-7	1921	3,435	3,535	12,432,290	3,924,741	1,143	215,981		246,561	Hydro	3.7205
7	Riverside 8	1931	4,500	4,500	22,391,730	2,924,741	650	215,981		246,561	Hydro	2.0657
8	Harris Energy*	varies	2,262	2,262	-	0	0	1,664		231,607	Hydro	-
9	Valley Hydro	1994	790	720	2,959,760	658,040	833	7,541		3,744	Hydro	0.3813
10												
11												
12												
13												
14												
15												
16												
17												
18												
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34												
35												
36												
37												
38												
39												
			TOTALS		68,330,990	13,570,897		930,072		1,314,426		3.2847

* These facilities are comprised of more than one plant, however combined herewith for ease of reporting.
 Holyoke/Cabot 1-4 includes Holyoke 1, Holyoke 2, Holyoke 3, and Holyoke 4 plants.
 Harris Energy includes Albion A, Albion D, and Nonotuck plants.

TRANSMISSION LINE STATISTICS

Report information concerning transmission lines as indicated below.

Line No.	Designation		Operating Voltage (c)	Type of Supporting Structure (d)	Length (Pole Miles)		Number of Circuits (g)	Size of Conductor and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1	WMECO Fairmont	HGE	115 KV	Steel Pole	0.03 miles		1	795 KCM ACSR
2	North Canal	North Canal						
3	TAP	Substation						
4								
5	WMECO	HGE	115 KV	Wood and Steel Pole	5.23 miles		1	795 KCM ACSR
6	Southampton	Ingleside						
7	TAP	Substation						
8			115 KV	Wood and Steel Pole	3.14 miles		1	795 KCM ACSR
9	HGE	HGE						
10	Ingleside	Holyoke						
11	Substation	Substation	115 KV	Wood and Steel Pole	0.85 miles		1	795 KCM ACSR
12								
13	HGE	HGE						
14	North Canal	Holyoke						
15	Substation	Substation						
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				TOTALS	9.25 miles		4	

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

SUBSTATIONS

1. Report below the information called for concerning substations of the respondent as of the end of the year.

2. Substations which serve but one industrial or street railway customer should not be listed hereunder.

3. Substations with capacities of less than 5000 kva, except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.

4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended.

5. Show in columns (i), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent.

For any substation or equipment operated under lease, give name of lessor, date and period of lease and annual rent.

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

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE			Capacity of Substation in Kva (in Service) (f)	Number Of Transformers in Service (g)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number Of Units (j)	Total Capacity (k)
1	Highland Substation	Outdoor	13,800				2				
2	Dwight & Northampton Street	Distribution		4,800		9,374	@				
3	Holyoke, MA 01040	Unattended		13,800	-		4,687	1			
4											
5											
6											
7											
8											
9	Walnut Substation	Outdoor	13,800				2				
10	Walnut Street	Distribution		4,800		9,374	@				
11	Holyoke, MA 01040	Unattended		13,800	-		4,687	1			
12											
13	West Holyoke Substation	Outdoor	13,800				2				
14	Homestead Avenue	Distribution		4,800			@				
15	Holyoke, MA 01040	Unattended		13,800	-	8,400	4,200	1			
16											
17	Holyoke Substation	Transmission	115,000				2				
18	102 Cabot Street (rear)	Distribution		13,800			@				
19	Holyoke, MA 01040	Unattended			-	50,000	15/20/25	0			
20											
21	Ingleside Substation	Transmission	115,000				1 @ 18/24/30				
22	320 Whitney Avenue	Distribution		13,800			2 @ 15/20/25				
23	Holyoke, MA 01040	Unattended			-	80,000		0			
24											
25	Prospect Substation	Transmission	115,000				2				
26	356 Prospect Street	Distribution		13,800			@		Capacitor Bank	1	5,400
27	Chicopee, MA 01020	Unattended			-	89,600	44,800	0			
28											
29	Mt. Tom Substation	Outdoor	13,800				3				
30	Mt. Park Access Road	Distribution		4,800			@				
31	Holyoke, MA 01040	Unattended			-	5,751	1,917	0			
32											
33	North Canal Substation	Transmission	115,000				2 @				
34	50 Water Street	Distribution		34,500	13,800		60,000				
35	Holyoke, MA 01040	Unattended				180,000	2 @	0			
36							30,000				
37					TOTALS	432,499		20	3	1	5,400

column (f) - adjusted all ratings to reflect higher forced cooling

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles - Beginning of Year.....	950.035		950.035
2	Added During Year.....	7.600		7.600
3	Retired During Year.....	(10.558)		(10.558)
4	Miles - End of Year.....	947.077	0.000	947.077
5	Distribution System Characteristics - A.C. or D.C., phase, cycles and operating voltages for Light and Power.			
6				
7	A.C. 3 PH 60 HZ 13.8Y/7.9 KV			
8	A.C. 3 PH 60 HZ 4.8 KV			
9	A.C. 3 PH 60 HZ 600 V			
10	A.C. 3 PH 60 HZ 480 V			
11	A.C. 3 PH 60 HZ 480Y/277 V			
12	A.C. 3 PH 60 HZ 240 V			
13	A.C. 3 PH 60 HZ 208Y/120 V			
14	A.C. 3 PH 60 HZ 120/240 V			
15	A.C. 1 PH 60 HZ 120/240 V			

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.....	16,502	18,923	2,576	265,672
17	Additions during year:				
18	Purchased		4	63	1,528
19	Installed.....	59			
20	Associated with utility plant acquired.....				
21	Total Additions	59	4	63	1,528
22	Reductions during year:				
23	Retirements.....	164	164	55	21,680
24	Associated with utility plant sold.....				
25	Total Reductions	164	164	55	21,680
26	Number at End of Year	16,397	18,763	2,584	245,520
27	In stock.....		1,990		
28	Locked meters on customer's premises.....				
29	Inactive transformers meters on system.....		8		
30	In customer's use.....		16,702		
31	In company's use		63		
32	Number at End of Year		18,763	2,584	245,520

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

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

Line No.	Designation of Underground Distribution System (a)	Miles of Conduit (All Sizes and Types) (b)	Underground Cable		Submarine Cable	
			Miles* (c)	Operating Voltage (d)	Feet* (e)	Operating Voltage (f)
1	Steel	48.893				
2	Steel Conduit (encased)	1.431				
3	Non-Metallic Duct	91.026				
4	Non-Metallic Duct (encased)	82.807				
5						
6						
7						
8						
9						
10	Total - Beginning		379.229	13.8KV/7.9KV 4.8KV/600V 480V/277 240/208/120		
11						
12						
13						
14						
15	Net Primary Installed		(0.997)	13.8/7.9/4.8KV		
16						
17	Net Secondary Installed		0.985	600/480/277 240/208/120		
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34	TOTALS	224.157	379.217			

*Indicate number of conductors per cable.

RECORD OF SENDOUT FOR THE YEAR IN MCF
BASED ON 1000 BTU PER CUBIC FOOT

Line No.	Item	Total	January	February	March	April	May
1	<u>Gas Made</u>						
2	Propane - Air Gas	31.0	0.0	1.0	2.0	3.0	4.0
3	LNG Gas	92,545.0	26,452.0	6,640.0	4,806.0	4,982.0	4,653.0
4	Gas						
5	Gas						
6	TOTAL	92,576.0	26,452.0	6,641.0	4,808.0	4,985.0	4,657.0
7							
8	<u>Gas Purchased</u>						
9	Natural G-6	1,931,647.3	268,068.3	229,694.3	220,368.8	164,318.7	95,612.8
10	Other - Storage	227,486.0	62,359.0	77,174.0	56,063.0	0.0	0.0
11	TOTAL	2,159,133.3	330,427.3	306,868.3	276,431.8	164,318.7	95,612.8
12	TOTAL MADE AND						
13	PURCHASED	2,251,709.3	356,879.3	313,509.3	281,239.8	169,303.7	100,269.8
14	Net change in Holder Gas	0.0	0.0	0.0	0.0	0.0	0.0
15	TOTAL SEND OUT	2,251,709.3	356,879.3	313,509.3	281,239.8	169,303.7	100,269.8
16							
17							
18							
19	Gas Sold (Firm)	1,974,257.5	292,900.3	301,923.4	253,571.4	192,107.4	104,760.1
	Gas Sold (Interr.)	187,214.7	30,308.0	28,497.2	24,291.1	17,388.4	10,071.5
	Electric Station Use	4,623.0	2,823.9	1,799.1	0.0	0.0	0.0
20	Gas Used by Company	16,545.0	3,416.0	2,943.2	2,030.0	840.3	300.2
	Sale for Resale	0.0	0.0	0.0	0.0	0.0	0.0
21	Gas Accounted For	2,182,640.2	329,448.2	335,162.9	279,892.5	210,336.1	115,131.8
22	Gas Unaccounted For	69,069.1	27,431.1	(21,653.6)	1,347.3	(41,032.4)	(14,862.0)
23	% Unaccounted For (0.00%)	3.07	7.69	(6.91)	0.48	(24.24)	(14.82)
24							
25							
26							
27	<u>Sendout in 24 Hours in Mcf</u>						
28	Maximum - Mcf	17,177.0	17,177.0	14,508.0	11,478.0	9,546.0	4,407.0
29	Maximum Date	1/23/2013	1/23/2013	2/17/2013	3/14/2013	4/2/2013	5/14/2013
30	Minimum - Mcf	1,241.0	7,095.0	8,490.0	5,597.0	3,317.0	2,504.0
31	Minimum Date	7/4/2013	1/30/2013	2/15/2013	3/31/2013	4/30/2013	5/31/2013
32							
33							
34							
35	S.O. BTU	1,030	1,029	1,029	1,029	1,031	1,032
	S.O. Sp. Gr.	0.59	0.59	0.59	0.59	0.59	0.59
	Annual weighted average BTU content of gas sold: 1,030 BTU per Cubic Foot						

GAS GENERATING PLANT

Line No.	General Description - Location, Size, Type, etc.	No. of Sets	24 Hour Cap. (MCF)
1	A) Liquefied Natural Gas Satellite Plant with four (4)		
2	55,000 gallon cryogenic storage tanks and one (1)		15,000
3	750 mcf/hr vaporizer located at Mueller Road.		
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		TOTAL	15,000

BOILERS

Line No.	Location	Kind of Fuel and Method of Firing	Rated Pressure in Lbs.	Rated Steam Temp.	Number	Output Rating M. Lbs. Steam Per Hour
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12			NONE			
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

SCRUBBERS, CONDENSERS AND EXHAUSTERS - 24 HOUR CAPACITY (MCF)

Line No.		Kind of Gas	Total Capacity
25			
26			
27			
28	Scrubbers		
29			
30			
31			
32			
33			
34	Condensers	NONE	
35			
36			
37			
38			
39	Exhausters		
40			
41			

PURIFIERS

Line No.	Location	Kind of Gas Purified	Kind of Purifying Material	Estimated 24 Hour Capacity
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12		NONE		
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

HOLDERS (Including Relief Holders) - Indicate Relief Holders by the letters R.H.

Line No.	Location	Type of Tank	Dimensions		No. of Lifts	Number	Working Capacity
			Diameter	Height			
25							
26							
27							
28							
29							
30							
31							
32			NONE				
33							
34							
35							
36							
37							
38							
39							
40							
41							

TRANSMISSION AND DISTRIBUTION MAINS

Report by size, for all mains and lines, the information called for below for cast iron, welded, wrought iron and steel mains.
Sub-Totals should be shown for each type.

Line No.	Diameter	Total Length in Feet at Beginning of Year	Added During Year	Taken Up During Year	Abandoned But Not Removed During Year	Total Length in Feet at End of Year
1	<u>Cast Iron</u>					
2	1 1/4"	0				0
3	1 1/2"	0				0
4	2"	180				180
5	2 1/2"	357				357
6	3"	26,030			3,923	22,107
7	4"	98,017			21	97,996
8	6"	92,805			95	92,710
9	8"	49,797			608	49,189
10	12"	29,305				29,305
11	16"	9,875				9,875
12						
13	Sub-Total	306,366	0	0	4,647	301,719
14	<u>Welded Steel</u>					
15	2"	113,672				113,672
16	3"	618				618
17	4"	86,856				86,856
18	6"	135,066			23	135,043
19	8"	106,466				106,466
20	10"	12,191	41		15	12,217
21	12"	57,864				57,864
22	14"	3,278				3,278
23	16"	1,133				1,133
24						
25	Sub-Total	517,144	41	0	38	517,147
26	<u>Wrought Iron</u>					
27	1 1/4"	0				0
28	1 1/2"	128				128
29	2"	292				292
30	2 1/2"	968				968
31	3"	318				318
32	4"	0				0
33						
34	Sub-Total	1,706	0	0	0	1,706
35	<u>Plastic Main</u>					
36	2"	53,574	3,459			57,033
37	4"	27,286	4,933			32,219
38	6"	23,356	5,550			28,906
39	8"	32,416	324		15	32,725
40						
41	Sub-Total	136,632	14,266	0	15	150,883
42						
43	TOTALS	961,848	14,307	0	4,700	971,455

Normal Operating Pressure-Mains and Lines-Maximum....80 PSIG Minimum....7 inches W.C.
Normal Operating Pressure-Services -Maximum....80 PSIG Minimum....7 inches W.C.

NOTE: Beginning balances were adjusted based on field and record verifications as part of a continuing mapping/GIS data conversion

GAS DISTRIBUTION SERVICES, HOUSE GOVERNORS AND METERS

Report below the information called for concerning Distribution Services, House Governors and Meters.

Line No.	Item	Gas Services	House Regulators	Meters
1	Number at beginning of year.....	7,665	2,942	14,166
2	Additions during year:			
3	Purchases.....		100	549
4	Installed.....	387		
5	Associated with Plant acquired.....			
6	TOTAL ADDITIONS	387	100	549
7	Reductions during year.....			
8	Retirements.....	281	20	340
9	Associated with Plant sold.....			
10	TOTAL REDUCTIONS	281	20	340
11	NUMBER AT END OF YEAR	7,771	3,022	14,375
12	In Stock.....			2,239
13	On Customers' Premises - Inactive.....			1,123
14	On Customers' Premises - Active.....			10,992
15	In Company Use.....			21
16	NUMBER AT END OF YEAR			14,375
17	Number of Meters Tested by State Inspectors During Year.....			2,790

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 on Annual Revenues	
			Increase	Decrease
SEE ATTACHED				

HOLYOKE GAS AND ELECTRIC DEPARTMENT
RATES AS OF DECEMBER 31, 2013

MDPU No			Effective	Replaces
104G	Interruptible Gas Service Schedule No 2	G2	06/15/85	102G
105G	Interruptible Gas Service Schedule No 6	G6	06/15/85	103G
118G	Gas Schedule "A"	GR	02/13/03	106G
119G	Gas Schedule "GB-1" Small General Service	B1	02/13/03	107G
120G	Gas Schedule "GB-2" Medium General Service	B2	02/13/03	108G
121G	Gas Schedule "GB-3" Large General Service	B3	02/13/03	109G
122G	Gas Schedule "GB-4" Industrial Contract Gas Service		02/13/03	111G
123G	Gas Schedule "AG-1" Small General Service Agriculture	F1	02/13/03	115G
124G	Gas Schedule "AG-2" Medium General Service Agriculture	F2	02/13/03	116G
125G	Gas Schedule "AG-3" Large General Service Agriculture	F3	02/13/03	117G
126G	Firm Gas Transportation Rate		02/13/03	113G
214G	Standard Purchased Gas Adjustment Schedule		11/01/08	114G
130E	Hydroelectric Power Reduction Clause		09/01/85	
140E	Standard Purchased Power Adjustment Clause		12/01/85	93E
161E	Meterbase Surge Protection (188E eff 1/1/14)		03/01/98	
168E	Schedule 3 Electric Rate - Large Industrial II Contract Schedule (2013 rates)		08/01/03	
171G/E/S	Economic Development Discount		09/10/03	150GE
172E	Standby Facilities Clause		10/09/03	158E
178E	Residential Electric Schedule		08/12/09	166E
180E	Off Street/Contract Lighting (189E eff 1/9/14)		08/12/09	175E
181E	Street & Traffic Lighting		08/12/09	176E
182E	General Service Electric Schedule		01/11/11	177E
183E	Large General Service Contract Schedule (2013 Rates)		07/12/11	
184E	Small Industrial Schedule		08/10/11	179E
185E	Distributed Generation Purchased Power Clause		11/10/12	
186E	Power Wheeling Service		12/10/12	
187E	Large Industrial Contract Schedule (2013 rates)		10/01/12	155E, 157E, 170E

**INTERRUPTIBLE
GAS SERVICE SCHEDULE - NO. 2**

AVAILABILITY

Interruptible gas service is available under this schedule for boiler use to Commercial and Industrial customers using No. 2 fuel oil who are located adjacent to the Department's existing distribution mains, which mains have adequate capacity so that gas delivered hereunder will not impair service to other customers.

Gas supplied hereunder shall be separately metered and used only in such equipment as approved by the Department. In no case shall the gas be used interchangeably with that supplied under any other rate schedule of the Department. Reference is made to the "dual fuel" provisions contained herein.

CHARACTER OF SERVICE

An interruptible supply of gas containing not less than 1,000 BTU cubic foot.

RATE - APPLIED MONTHLY

All gas purchased under this schedule at a rate computed as follows:

Rate \$/CCF = No.2 Oil Price x GAS BTU+A
OIL BTUx42 -

Where:

No. 2 Oil Price:Low posting 2.2% sulphur at New Haven Harbor per Journal of Commerce.
\$/barrel.

Gas BTU:Average heat value of natural gas delivered BTU/CCF.

Oil BTU:140,000 BTU/Gallon

A:Adjustment such that rate would be above volume
(Commodity + Dekatherm) cost of gas supplied. \$/CCF

NOTICE OF PRICE CHANGE

Notice of price change will be provided by telephone 12 hours in advance of change confirmed promptly in writing.

MINIMUM CHARGE

The minimum charge will be \$500 per year.

DISCOUNT

Discount does not apply to this schedule.

INTERRUPTION OF SERVICE

Gas supplied hereunder is subject to interruption at any time upon twelve (12) hours notice to the customer who shall discontinue entirely the use of gas until notified by the Department that it is again available. The determination of the necessity for interrupting gas service shall be made

Con't

Con't

solely by the Department in each instance and shall be final and binding. The interruption of gas service shall not be the basis for claims or damages, if any, sustained by the customer by reason of such interruption.

NON-COMPLIANCE WITH NOTICE TO DISCONTINUE USE

If the customer fails to discontinue the use of gas after receiving notice to do so from the Department, the bill for gas subsequently used shall be at the rate of \$15.00 per mcf. However, if such failure to discontinue is due to the customer's dual fuel equipment being temporarily inoperable, the Department at its option, may bill the customer for gas subsequently used during the emergency at the rate of \$7.50 per mcf, provided service to other customers is not impaired and provided also that the customer proceeds as expeditiously as possible to repair his dual fuel equipment.

DUAL FUEL EQUIPMENT

The customer shall install and maintain in usable condition dual fuel burning equipment and keep on hand an adequate supply of alternate fuel use when gas service is interrupted.

TERM OF CONTRACT

The term of contract under this schedule shall be for an initial period of at least one year, at the expiration of which initial period it shall automatically renew itself for like one year periods thereafter unless terminated by either party giving to the other notice in writing 30 days prior to the expiration of any supply year. The basic period of interruptible supply under this schedule is from April 1st to November 1st.

TERMS AND CONDITIONS

Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

**INTERRUPTIBLE
GAS SERVICE SCHEDULE - NO. 6**

AVAILABILITY

Interruptible gas service is available under this schedule for boiler use to Commercial and Industrial customers using No.6 fuel oil who are located adjacent to the Department's existing distribution mains, which mains have adequate capacity so that gas delivered hereunder will not impair service to other customers.

Gas supplied hereunder shall be separately metered and used only in such equipment as approved by the Department. In no case shall the gas be used interchangeably with that supplied under any other rate schedule of the Department. Reference is made to the "dual fuel" provisions contained herein.

CHARACTER OF SERVICE

An interruptible supply of gas containing not less than 1,000 BTU cubic foot.

RATE - APPLIED MONTHLY

All gas purchased under this schedule at a rate computed as follows:

Rate \$/CCF = No.6 Oil Price x GAS BTU+A
OIL BTUx42 -

Where:

No. 6 Oil Price:Low posting 2.2% sulpher at New Haven Harbor per Journal of Commerce.
\$/barrel.

Gas BTU:Average heat value of natural gas delivered BTU/CCF.

Oil BTU:150,000 BTU/Gallon

A:Adjustment such that rate would be above volume
(Commodity + Dekatherm) cost of gas supplied. \$/CCF

NOTICE OF PRICE CHANGE

Notice of price change will be provided by telephone 12 hours in advance of change confirmed promptly in writing.

MINIMUM CHARGE

The minimum charge will be \$500 per year.

DISCOUNT

Discount does not apply to this schedule.

INTERRUPTION OF SERVICE

Gas supplied hereunder is subject to interruption at any time upon twelve (12) hours notice to the customer who shall discontinue entirely the use of gas until notified by the Department that it is again available. The determination of the necessity for interrupting gas service shall be made

Con't

Con't

solely by the Department in each instance and shall be final and binding. The interruption of gas service shall not be the basis for claims or damages, if any, sustained by the customer by reason of such interruption.

NON-COMPLIANCE WITH NOTICE TO DISCONTINUE USE

If the customer fails to discontinue the use of gas after receiving notice to do so from the Department, the bill for gas subsequently used shall be at the rate of \$15.00 per mcf. However, if such failure to discontinue is due to the customer's dual fuel equipment being temporarily inoperable, the Department at its option, may bill the customer for gas subsequently used during the emergency at the rate of \$7.50 per mcf, provided service to other customers is not impaired and provided also that the customer proceeds as expeditiously as possible to repair his dual fuel equipment.

DUAL FUEL EQUIPMENT

The customer shall install and maintain in usable condition dual fuel burning equipment and keep on hand an adequate supply of alternate fuel use when gas service is interrupted.

TERM OF CONTRACT

The term of contract under this schedule shall be for an initial period of at least one year, at the expiration of which initial period it shall automatically renew itself for like one year periods thereafter unless terminated by either party giving to the other notice in writing 30 days prior to the expiration of any supply year. The basic period of interruptible supply under this schedule is from April 1st to November 1st.

TERMS AND CONDITIONS

Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed June 15, 1985

CITY OF HOLYOKE

Effective June 15, 1985

GAS & ELECTRIC DEPARTMENT

GAS SCHEDULE "A"

AVAILABILITY

Service under this schedule is available for all residential purposes in an individual private dwelling or an individual apartment. In the case of a multiple dwelling in which the energy is measured by a master meter, each step of the rate shall be multiplied by the number of apartments.

CHARACTER OF SERVICE

A continuous supply of gas not less than 1,000 BTU per cubic foot.

RATE - APPLIED MONTHLY

Customer Charge \$6.00
First 40 ccf @ \$1.017 per ccf
All Over 40 ccf @ \$.767 per ccf

Definition of the gas unit for purposes of this schedule is one hundred cubic feet - abbreviation - ccf

MINIMUM CHARGE

Customer charge per month.

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

PURCHASED GAS ADJUSTMENT

There shall be an adjustment in rate due to cost of gas as provided in the Department's Standard Purchased Gas Adjustment Schedule in effect from time to time.

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed January 13, 2003

Effective February 13, 2003

**GAS SCHEDULE "GB - 1"
SMALL GENERAL SERVICE**

AVAILABILITY

Service under this schedule is available for commercial and industrial customers and municipal buildings having an annual usage of less than 5,000 ccf.

CHARACTER OF SERVICE

A continuous supply of gas not less than 1,000 BTU per cubic foot.

RATE - APPLIED MONTHLY

Customer Charge \$10.00

First 200 ccf @ \$.917 per ccf

Excess 200 ccf @ \$.837 per ccf

Definition of the gas unit for purposes of this schedule is one hundred cubic feet - abbreviation ccf.

MINIMUM CHARGE

Customer charge per month.

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

PURCHASED GAS ADJUSTMENT

There shall be an adjustment in rate due to cost of gas as provided in the Department's Standard Purchased Gas Adjustment Schedule in effect from time to time.

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed January 13, 2003

Effective February 13, 2003

GAS SCHEDULE "GB - 2"
MEDIUM GENERAL SERVICE

AVAILABILITY

Service under this schedule is available for commercial and industrial customers and municipal buildings having an annual usage greater than 5,000 ccf and less than 40,000 ccf.

CHARACTER OF SERVICE

A continuous supply of gas not less than 1,000 BTU per cubic foot.

RATE - APPLIED MONTHLY

Customer Charge \$20.00

First 600 ccf @ \$.867 per ccf

Excess 600 ccf @ \$.817 per ccf

Definition of the gas unit for purposes of this schedule is one hundred cubic feet - abbreviation ccf.

MINIMUM CHARGE

Customer charge per month.

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

PURCHASED GAS ADJUSTMENT

There shall be an adjustment in rate due to cost of gas as provided in the Department's Standard Purchased Gas Adjustment Schedule in effect from time to time.

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed January 13, 2003

Effective February 13, 2003

GAS SCHEDULE "GB - 3"
LARGE GENERAL SERVICE

AVAILABILITY

Service under this schedule is available for commercial and industrial customers and municipal buildings having an annual usage greater than 40,000 ccf.

CHARACTER OF SERVICE

A continuous supply of gas not less than 1,000 BTU per cubic foot.

RATE - APPLIED MONTHLY

Customer Charge \$60.00
First 10,000 ccf @ \$.837 per ccf
Excess 10,000 ccf @ \$.787 per ccf

Definition of the gas unit for purposes of this schedule is one hundred cubic feet - abbreviation ccf.

MINIMUM CHARGE

Customer charge per month.

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

PURCHASED GAS ADJUSTMENT

There shall be an adjustment in rate due to cost of gas as provided in the Department's Standard Purchased Gas Adjustment Schedule in effect from time to time.

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed January 13, 2003

Effective February 13, 2003

GAS SCHEDULE "GB - 4"
INDUSTRIAL CONTRACT GAS SERVICE

AVAILABILITY

Service under this schedule is available for industrial customers primarily engaged in manufacturing who have executed a long term contract and who have an annual usage greater than 100,000 ccf.

CHARACTER OF SERVICE

A continuous supply of gas not less than 1,000 BTU per cubic foot.

RATE - APPLIED MONTHLY

Customer Charge \$90.00

First 10,000 ccf @ \$.65 per ccf

Excess 10,000 ccf @ \$.50 per ccf

Definition of the gas unit for purposes of this schedule is one hundred cubic feet - abbreviation ccf.

MINIMUM CHARGE

Customer charge per month.

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

PURCHASED GAS ADJUSTMENT

There shall be an adjustment in rate due to cost of gas as provided in the Department's Standard Purchased Gas Adjustment Schedule in effect from time to time.

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed January 13, 2003

Effective February 13, 2003

GAS SCHEDULE "AG - 1"
SMALL GENERAL SERVICE AGRICULTURE

AVAILABILITY

Service under this schedule is available to persons or corporations engaged in the business of agriculture or farming having an annual usage of less than 5,000 ccf.

CHARACTER OF SERVICE

A continuous supply of gas not less than 1,000 BTU per cubic foot.

RATE - APPLIED MONTHLY

Customer Charge \$9.00

First 200 ccf @ \$.825 per ccf

Excess 200 ccf @ \$.753 per ccf

Definition of the gas unit for purposes of this schedule is one hundred cubic feet - abbreviation ccf.

MINIMUM CHARGE

Customer charge per month.

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

PURCHASED GAS ADJUSTMENT

There shall be an adjustment in rate due to cost of gas as provided in the Department's Standard Purchased Gas Adjustment Schedule in effect from time to time.

TERMS AND CONDITIONS

This contract is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed January 13, 2003

Effective February 13, 2003

**GAS SCHEDULE "AG - 2"
MEDIUM GENERAL SERVICE AGRICULTURE**

AVAILABILITY

Service under this schedule is available to persons or corporations engaged in the business of agriculture or farming having an annual usage greater than 5,000 and less than 40,000 ccf.

CHARACTER OF SERVICE

A continuous supply of gas not less than 1,000 BTU per cubic foot.

RATE - APPLIED MONTHLY

Customer Charge \$18.00
First 10,000 ccf @ \$.780 per ccf
Excess 10,000 ccf @ \$.735 per ccf

Definition of the gas unit for purposes of this schedule is one hundred cubic feet - abbreviation ccf.

MINIMUM CHARGE

Customer charge per month.

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

PURCHASED GAS ADJUSTMENT

There shall be an adjustment in rate due to cost of gas as provided in the Department's Standard Purchased Gas Adjustment Schedule in effect from time to time.

TERMS AND CONDITIONS

This contract is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed January 13, 2003

Effective February 13, 2003

**GAS SCHEDULE "AG - 3"
LARGE GENERAL SERVICE AGRICULTURE**

AVAILABILITY

Service under this schedule is available to persons or corporations engaged in the business of agriculture or farming having an annual usage greater than 40,000 ccf.

CHARACTER OF SERVICE

A continuous supply of gas not less than 1,000 BTU per cubic foot.

RATE - APPLIED MONTHLY

Customer Charge \$54.00
First 10,000 ccf @ \$.753 per ccf
Excess 10,000 ccf @ \$.708 per ccf

Definition of the gas unit for purposes of this schedule is one hundred cubic feet - abbreviation ccf.

MINIMUM CHARGE

Customer charge per month.

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

PURCHASED GAS ADJUSTMENT

There shall be an adjustment in rate due to cost of gas as provided in the Department's Standard Purchased Gas Adjustment Schedule in effect from time to time.

TERMS AND CONDITIONS

This contract is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed January 13, 2003

Effective February 13, 2003

FIRM GAS TRANSPORTATION RATE

AVAILABILITY

1. This tariff is applicable to all gas purchased by a customer from a third party producer or marketer. The gas must be delivered to the Department's distribution system via an interstate pipeline. Once the gas has been received by the Department, the Department will transport the gas to the Customer's premises on a firm basis. This service is only available to those customers, which execute a 12-month contract for the service provided herein. This service is applicable only to customers, which transport in excess of 40,000 ccf/year.
2. Optional standby sales service is also offered under this rate. Customers opting not to purchase standby service shall have no right or claim to gas provided by the Department.
3. Daily and monthly balancing service is a part of this tariff and is mandatory to all customers on this tariff.
4. As a requirement of the balancing services, the Department requires all transportation customers to have a real time metering. The customer shall be responsible for and make direct arrangements for transmitting information to the Mueller Road Control Center via telephone lines or other approved methods. The customer shall be responsible for the cost of the equipment necessary to transmit the real time metering information along with the cost of the telephone service. The telemetering equipment shall conform to the specifications of the Holyoke Gas & Electric Department.

CHARACTER OF SERVICE

1. This service provides for the firm transportation of third party gas delivered to the Department on behalf of a customer. Under this service, the Department will deliver such gas as received by the third party to the customer's meter. This transportation service is firm only to the extent that the third party gas is delivered to the Department.

CONTRACT REQUIREMENTS

1. The customer shall execute a Service Agreement with the Department, which specifies the Maximum Daily Quantities of gas to be transported.
2. Maximum Daily Quantity: After consulting with the customer, the Department will assign a Maximum Daily Delivery Quantity (MDQ). The MDQ is defined as the maximum customer nomination for delivery of gas per day or the highest daily demand actually taken per day. The MDQ will remain in effect for the 12-month period following the execution of the transportation contract between the Department and the Customer. In the event that the customer exceeds this MDQ on any given day during any 12-month period, the Customer shall be considered to have immediately increased the MDQ to the actual maximum level consumed and such increased MDQ shall remain in effect for the next subsequent 12 months.

Rates and Charges for Firm Transportation Service

The Department will meter the customer's volumes at only one location, specifically at the gas service entrance. In the event that there are multiple service entrances at one location, all meters located at these entrances shall be considered as individual transportation customers and shall conform to the requirements of the tariff. A prompt payment discount of 10% will be allowed on the current gross bills provided the bill is paid in full within 15 days of the bill.

Customer Charge

The customer charge for Firm Transportation service shall be \$66.00 per month per meter.

Gas Supply Realignment Charge

The GSR Surcharge will be \$.216/ccf/day of MDQ. This surcharge will expire once the pipeline terminates the charge to the Department for the Gas Supply Realignment Charge.

Environmental Charge

This charge is for the costs incurred for the environmental cleanup of the manufactured gas plant located in the City of Holyoke as mandated by the Federal and State regulatory agencies. This charge will remain in place until the remediation process of this site has been completed or until such time that all expenses for the site have been recovered. This charge will change from year to year, depending upon the costs the Department has budgeted.

Energy Charge

This charge is for the costs incurred by the Department for transporting gas through its Distribution system.

3. The monthly rates and charges are as follows:

Customer Charge:\$66.00
Energy Charge:\$0.026/ccf
Demand Charge:\$1.75/ccf/day of MDQ
GSR Charge:\$.216/ccf/day of MDQ
Environmental Charge:\$.067/ccf

For example, the charge for a customer electing an MDQ of 150 ccf/day and who uses 2,200 ccf in a month would be charged as follows:

Customer Charge:\$66.00
Energy Charge:\$57.20 (\$.026/ccf*2,200 ccf)
Demand Charge:\$262.50 (\$1.75/ccf/day*150 ccf/day)
GSR Surcharge:\$32.40 (\$.216/ccf/day*150 ccf/day)
Environmental Charge:\$147.40 (\$.067/ccf*2200 ccf)
Total:\$565.50
Less 10% Prompt
Payment:\$56.55
Total (Net)\$508.95

This amount does not include the cost of gas received from a third party for the transportation customer.

Receipt and Delivery

4. The customer shall be responsible for securing delivery of Customer-owned gas to the Department's system at the Department's designated receipt point(s).

5. The receipt point shall be at a pipeline city gate station as specified in the contract and assigned by the Department.

6. The Department shall retain 3% of volumes delivered to the city gate for a lost and unaccounted adjustment and the Department shall only be obligated to deliver 97% of volumes received.

LOAD BALANCING

1. **Character of Service:** The Department agrees to provide customer with daily and monthly balancing services within the parameters outlined in paragraph 5. The Department agrees to use its gas resources, including but not limited to storage and standby service, to accept Customer's daily over deliveries and to provide Customer with gas to compensate for daily under deliveries.

2. **Customer Nominations and Gas Deliveries:** Customer shall be responsible for promptly advising the Department of its daily nomination of gas intended to be received by the Department on behalf of Customer. Customer shall be responsible for promptly providing the Department with pipeline daily confirmation reports reflecting the actual amount of gas delivered to the Department each day on behalf of Customer. Daily nominations must be received by 10:00 a.m. one day prior to the date that a change in the daily nomination is intended to become effective. If no third party gas arrives on behalf of the transportation customer, the customer will be off line and receive no gas, unless the customer has signed for the optional standby service. In the event that those customers who did not sign up for the standby service has its deliveries interrupted it will be notified to go off line. If the customer, after notification does not go off line, all volumes taken will be charged at \$2.50 per ccf. If the Department's ability to deliver gas to non-transportation customers is impaired by the transportation customer's actions, the Department reserves the right to shut off the gas supply at the main.

3. **Determination of Daily Imbalances:** Customer's daily imbalance shall be equal to the difference between the amount of gas nominated by the customer and confirmed by the Department each day, and customer's actual volumes, (adjusted for losses), as determined from daily meter readings at customer's facility. A daily **under delivery** shall be deemed to occur whenever daily deliveries on behalf of Customer are less than Customer's actual nomination, (adjusted for losses), as determined from daily meter readings at Customer's facility. A daily **over delivery** shall be deemed to occur whenever deliveries on behalf of Customer are more than Customer's actual nomination, (adjusted for losses), as determined from daily meter readings at Customer's facility.

4. **Determination of Monthly Imbalances:** Customer's monthly imbalances shall be equal to the difference between the total volume of gas nominated by the Customer each month and confirmed by the Department, and Customer's actual transportation volumes (adjusted for losses) as determined from meter readings at Customer's facility.

5. **Charge for Imbalances:** The Department's rate for daily imbalances is as follows:

A daily surcharge of \$.04836/ccf will apply to all volumes in excess of 110% or less than 90% of their daily nominated quantity unless an Operational Flow Order (OFO) is in effect from the pipeline company. In this case, the balancing charge will be \$2.50/ccf. These charges shall be in addition, not in lieu of, other transportation charges. Prompt Payment discount does not apply to imbalance charges.

The charge of imbalances does not apply when the customer's total deliveries are interrupted and not received at the gate station. As outlined under Customer Nominations and Gas Deliveries, if a customer, who does not have standby service, and does not go off line when notified of this condition, all volumes taken by customer will be charged at \$2.50 per ccf. If the Department's ability to deliver gas to non-transportation customers is impaired by the transportation customer's actions, the Department reserves the right to shut off the gas supply at the main.

Charge for Monthly Imbalances: customers must cash out their cumulative monthly imbalances. At the end of each calendar month the Department shall determine the cumulative monthly imbalances as determined in item 4 above. For cumulative monthly over deliveries, the Department will cash out such over deliveries based on the schedule.

Monthly Excess Deliveries

0-10%	100% Index
10%-15%	115%
15%-20%	130%
20%-25%	140%
25%+	150%

The Customer will buy the volumes associated with the monthly over deliveries from the Department at the above index price depending upon the tier in which the over deliveries fall. For cumulative under deliveries, the Department will cash out such under deliveries based on the following schedule:

Monthly Under Deliveries to the Customer's Meter

0-10%	100% Index
10%-15%	85%
15%-20%	70%
20%-25%	60%
25%+	50%

The customer will sell the volumes associated with the monthly under deliveries to the Department at the above index price depending upon the tier in which the under deliveries fall.

The index price shall be 28% of the Texas (Zone 0) index plus 72% of the Louisiana (Zone 1) index for spot prices published in Inside FERC's Gas Market Report for on-shore and offshore gas delivered into the Tennessee Gas Pipeline system. The Report is published by McGraw Hill, Inc., 1221 Avenue of the Americas, New York, New York, 10020. The Index will be computed as the simple average of the Louisiana (Zone 1) and Texas (Zone 0) prices.

STANDBY SALES SERVICE

1. This service is optional. This service is available for the winter and summer periods. For customers opting for this service, the standby sales is a firm service under which the Company agrees to provide firm gas sales service to the Customer, in the event their gas is not delivered to the city gate station or, in the event of force majeure from the pipeline. In the event of a force majeure from the pipeline, this service will be on a best efforts basis.
2. Customers electing such service must identify a portion, up to 100% of their MDQ as their Maximum Daily Standby Quantity (MDSQ) for each season, 10 working days prior to start of the season.
3. The standby rate is as follows: \$3.08/ccf/day

This rate is based upon the winter period MDSQ. The winter period is defined as the period commencing November 1 and ending April 30. The summer period is defined as the period commencing May 1 and ending October 31. The cost of purchased gas under the stand by service shall be defined as the total rolled in cost of natural gas delivered to the Department, including Liquefied Natural Gas, Propane Air, and storage gas for the month in which the service is used plus 15%.

The standby charge will be assessed on a monthly basis per six-month period by season. For example, a customer who has a winter MDSQ of 150 ccf/day will be charged each month (\$3.08/ccf/day*150 ccf/day) or \$462.00 plus the cost of gas as defined in paragraph 3 above. A prompt payment discount of 10% will be applied to this service, provided the bill is paid in full within 15 days of date of bill.

4. A penalty charge of \$1.66/ccf will be assessed on each volume of gas taken by the customer under Standby sales service, which exceeds their MDSQ. If the Department's ability to deliver gas to non-transportation customers is impaired by the transportation customer's actions, the Department reserves the right to shut off the gas supply at the main.

FORCE MAJEURE

1. If the Department is rendered unable to wholly or in part, carry out its obligation under this agreement because of force majeure, the obligations of the Department shall be suspended until

Filed January 13, 2003

CITY OF HOLYOKE
GAS & ELECTRIC DEPARTMENT

Effective February 13, 2003

such time as the cause for suspension has been remedied using the existing practices of the gas distribution industry.

2. If the Customer is rendered unable to wholly or in part, carry out its obligations under these provisions because of force majeure, the obligations of the Customer, other than the obligation to make all payments hereunder, shall be suspended until such time as the cause for suspension has been remedied.

3. Definition Force Majeure: The term "force majeure" as employed herein shall include acts of God, strikes, lockouts, wars, riots, insurrections, epidemics, landslides, lightning, earthquakes, fires, storms, floods, washouts, arrests and restraints of rulers and people, interruptions by government or court orders, civil disturbances, explosions, and any other cause whether of the kind herein defined or otherwise, not within the control of the party claiming suspension and which, by the exercise of reasonable foresight, such party is unable to avoid and, by the exercise of due diligence, such party is unable to overcome.

Summary of Firm Gas Transportation Charges

Mandatory

Customer Charge \$66 per month
Energy Charge \$0.026/ccf
Demand Charge \$1.75/ccf/day of MDQ
GSR Charge \$0.216/ccf/day of MDQ
Environmental Charge \$.067/ccf

Volumes taken after supplier \$2.50/ccf
Interruption & no standby

Daily Load Balancing

Daily volumes in excess of 110% of daily nomination\$.04836/ccf
Daily volumes less than 90% of daily nomination\$.04836/ccf

Daily volumes taken during OFO\$2.50/ccf

Monthly Over Deliveries to the Customer's Meter

0-10%	100% Index
10%-15%	115%
15%-20%	130%
20%-25%	140%
25%+	150%

The customer will buy the volumes associated with the monthly over deliveries from the Department at the above index price depending upon the tier in which the over deliveries fall. For cumulative under deliveries, the Department will cash out such under deliveries based on the following schedule:

Monthly Under Deliveries to the Customer's Meter

0-10%	100% Index
10%-15%	85%
15%-20%	70%
20%-25%	60%
25%+	50%

The customer will sell the volumes associated with the monthly under deliveries to the Department at the above index price depending upon the tier in which the under deliveries fall.

Standby Service

Demand \$3.08/ccf/day

Daily volumes taken over the customer's max daily standby quantity, \$1.66/ccf/day

**STANDARD PURCHASED GAS
ADJUSTMENT SCHEDULE**

AVAILABILITY

This service is applicable to the firm gas rate schedules of the Department.

PURCHASED GAS ADJUSTMENT

This schedule establishes the procedure to be followed, for adjusting, on a monthly basis, the Department's firm gas rate schedules in order to track, on a periodic basis, the changes in the cost of purchased gas.

The purchased gas adjustment charge may be increased or decreased, whenever the cost of purchased gas varies above or below the base cost of \$0.425-375 per CCF. The purchased gas adjustment is a function of the total pipeline and supplemental gas costs, less gas costs for the Department use and non-firm sales, less refunds from suppliers, plus or minus the cumulative total in the purchased gas account, all divided by the firm gas sales. The resultant purchased gas adjustment minus the embedded cost of \$.425-375 per CCF, establishes the new purchased gas adjustment.

The monthly bill share be increased or decreased by multiplying the total volume billed each month by the purchased gas adjustment, calculated as follows:

$$PGA = \frac{Cg - Cd - Cr + Ca}{FS} - Cb \quad [$/CCF]$$

- Cg: Total pipeline and supplemental costs for all gases purchased.
- Cd: Cost of gas for Department use and non-firm sales.
- Cr: Refunds received from suppliers, both pipeline and supplemental.
- Ca: Cumulative total in purchased gas account.
- Cb: Base cost of gas (\$0.425-375 per CCF).

Filed October 1, 2008

Effective November 1, 2008

**HYDROELECTRIC POWER
REDUCTION CLAUSE**

AVAILABILITY

This clause is applicable to Department electric rate schedules which provide service to residential customers only.

HYDROPOWER ADJUSTMENT

The cost per KWH for all energy will be adjusted downward due to the savings in power costs resulting from the purchase by the Department of hydroelectric power from the Niagara and St. Lawrence projects. The savings in cost per KWH will be determined by computing the savings in power costs including production, fuel and transmission costs and dividing by the concurrent KWH sold for residential purposes. The credit applied will be adjusted upward or downward from time to time such that the savings in power costs will accrue entirely to the Department's residential customers.

DISCOUNT

No discount applies.

Filed August 15, 1985

Effective September 1, 1985

**STANDARD PURCHASED POWER
ADJUSTMENT CLAUSE**

AVAILABILITY

This clause is applicable to all electric rate schedules.

PURCHASED POWER ADJUSTMENT

The cost per KWH for all energy will be adjusted upward or downward for changes in fuel and purchased power costs above or below the base amount of \$.065 per KWH. When the total cost of fuel and purchased power varies above or below the above base cost a charge or credit per KWH will be applied to all energy sold such that the cost or credit will be recovered or returned over time.

DISCOUNT

No discount applies.

Filed November 19, 1985

Effective December 1, 1985

METERBASE SURGE PROTECTION

AVAILABILITY

This service is available to most residential, commercial, and industrial customers.

RATE-APPLIED MONTHLY

Meterbase Surge Protection \$3.75

DISCOUNT

No discount applies to meterbase surge protection devices.

TERMS AND CONDITIONS

The above monthly rate for the meterbase surge protection devices includes the cost of all material and labor.

A warranty registration card will be required to be filled out upon the purchase of a point-of-use device and the City of Holyoke Gas & Electric Department will not be responsible for warranties and guarantees of the point-of-use device.

Massachusetts State Sales Tax will be added to the cost of the point-of-use devices at the time of billing.

This contract shall be for one (1) year and then cancelable on thirty (30) days notice. If a device is used for less than one (1) year, the customer will pay \$35 removal fee. There shall be no removal charge if agreement is canceled after the initial one (1) year period.

Filed March 31, 1998

Effective March 1, 1998

CITY OF HOLYOKE
GAS & ELECTRIC DEPARTMENT

SCHEDULE 3- ELECTRIC RATE (Effective date: July 1, 2003 through June 30, 2018)

LARGE INDUSTRIAL II CONTRACT SCHEDULE

AVAILABILITY

Service under this schedule is available to industrial users who are primarily engaged in manufacturing who have executed a long term contract, have a minimum monthly demand of 2000 KW and a minimum monthly consumption of 1,500,000 kWh per month.

RATE – APPLIED MONTHLY (2013 Rates)

Customer Charge	\$500.00			
	Billed Rate	Billed Rate		
	Consumption	Demand	Effective*	Effective*
	<u>\$/kWh</u>	<u>\$/kW</u>	<u>Demand, \$/kWh</u>	<u>All-in, \$/kWh</u>
Energy Charge:	0.04340	9.82	0.01663	0.06046
Transmission Charge:	0.00138	2.09	0.00354	0.00492
Distribution Fixed:	0.00406	0.00	0.00000	0.00406
Distribution Variable:	0.00238	3.89	0.00659	0.00897

*For illustrative purposes only, assumes 82% load factor, 720 hours per month

DEMAND

The demand charge will be the highest thirty-minute average demand during the Department’s on-peak hours for the billing period.

POWER FACTOR CHARGE

An additional charge of \$.001 per kWh will be added to bills in any month where a power factor of 85% is not maintained.

ANNUAL ENERGY CHARGE ADJUSTMENT

Each January 1, beginning in 2004, the Electric Energy Charge will be adjusted by multiplying the current year Energy Charge by the ratio of the immediately preceding year’s WPU-054 as published by the Bureau of Labor Statistics divided by the second preceding year’s WPU-054 index. Formula: New Electric Energy Charge=Effective Electric Energy Charge *(A/B), where A=immediately preceding year’s WPU-054 and B=second preceding year’s WPU-054.

ANNUAL DISTRIBUTION VARIABLE CHARGE ADJUSTMENT

Each January 1, beginning in 2004, the variable component of the distribution rate will be adjusted and a new Distribution Variable Charge will be calculated, by multiplying the current variable distribution charge by the ratio of the immediately preceding year CPI (All cities/all items, non seasonally adjusted) divided by the second preceding year CPI (All cities/all items, non seasonally adjusted). Formula: New Dist. Var. Charge=Effective Dist. Var. Charge *(A/B) where A=immediately preceding year’s CPI and B=second preceding year’s CPI.

TERMS AND CONDITIONS

Capacity and distribution components will be billed based on demand and consumption. Values for the components illustrated above reflect demand components for an 82% load factor.

Filed July 1, 2003

Effective August 1, 2003

ECONOMIC DEVELOPMENT DISCOUNT

AVAILABILITY

Service under this schedule is available for customers who meet Department requirements per Terms and Conditions. Discounts as follows will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

DISCOUNT

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>
Gas & Electric	10%	10%	10%
Steam **	50%	50%	50%

**Steam discounts are applied to base rate and minimum charges only; not to fuel or gas surcharges.

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts", the "Economic Development Discount Program", and the "Residential Economic Development Terms & Agreements".

Filed August 10, 2003

Effective September 10, 2003

STANDBY FACILITIES CLAUSE

AVAILABILITY

This clause will be applicable to all electric rate schedules where customer receives backup or supplemental service from the Department due to the customer's use of on-site generation ("Generation Charge") or receipt of redundant facilities ("Wires Charge"). Charges under this clause are in addition to other applicable rate schedules.

GENERATION CHARGE

A Generation Charge shall be applied to all partial requirements customers who self-generate all, or a portion of, the customer's electrical power service requirements on a regular basis. This Generation Charge is intended to provide the customer with a backup supply of power when the customer's generating facilities are not in operation or are operating at less than full rated capability. Customers who have generation capabilities for emergency purposes only (run less than 5% of time) shall not be accessed this generation charge, however are still required to file data with Department.

Facilities Charge: \$ 3.35 per nameplate kW/month
Existing Hydro resources shall receive a \$1.30 credit per nameplate kW/month or as otherwise amended based on applicable Water Use Agreements.

Service taken under this rate shall be electrically separated from the customer's generating facilities or provided with sufficient protective devices to prohibit such facilities from causing disturbances on the Department's system consistent with the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts." The Department reserves the right to conduct audits for verification, to place appropriate metering within customer facilities, and to refuse service to facilities where the Department reasonably determines that the protection provided is inadequate.

WIRES CHARGE

A Wires Charge shall be applied to customers who receive redundant facilities from the Department. This Wires Charge is intended to provide the customer with increased reliability of service and/or restoration time by having additional facilities supplied to customer. Wires only charges include primary and/or secondary facilities provided in duplicate to customer, while complete backup facilities includes a redundant backup source provided by a second transformer at customer's location.

Facilities Charge: Wires only, not live \$ 4.56/month
 Wires only, energized \$ 13.23/month
 Complete backup facilities [(a*730*b)+c]*1.08/month

**Mass. DTE No. 172E
Cancels MDPU No. 158E**

Formula description of complete backup facilities charge:

a = Average No Load Losses in kW of Backup Transformer Size

730 = Average # Hrs / Month

b = \$ (0.065 + Purchase Power Adjustment Rate) * 0.9 per kWh

c = Capital cost component = \$(Transformer Cost + Pad + Ground Grid Cost) * 0.03
(depreciation per year) / 12 (#
Months in year)

1.08 = Miscellaneous cost multiplier

Note: a and c shall change from time to time reflective of actual costs & revised loss information.

DISCOUNT

No prompt payment discount applies. Interest will accrue at 1.5 percent per month on the unpaid balance.

TERMS AND CONDITIONS

Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed August 15, 2003

Effective October 9, 2003

**RESIDENTIAL
ELECTRIC SCHEDULE**

AVAILABILITY

Service under this schedule is available for all residential purposes in an individual private dwelling or an individual apartment.

RATE - APPLIED MONTHLY

Customer Charge \$4.46 per meter

All kWh at \$0.1044 per kWh

Renewable Energy Charge at \$0.00050 per kWh (Not subject to any discounts.)

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill.

PURCHASED POWER ADJUSTMENT

There shall be an adjustment in rate due to cost of power as provided in the Department's Standard Purchased Power Adjustment Clause in effect from time to time.

HYDROPOWER REDUCTION

There shall be a reduction in rate due to power purchased from the Niagara hydroelectric projects provided in the Department's Hydroelectric Power Reduction Clause in effect from time to time. This reduction in rate may be further increased based on Department's owned hydroelectric facilities, at the discretion of the Department from time to time

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed August 12, 2009

Effective August 12, 2009

OFF-STREET/CONTRACT LIGHTING

AVAILABILITY

This service is available for general area lighting and security purposes only.

RATE-APPLIED MONTHLY

High Pressure Sodium Lamps	Monthly kWh	
100 W Roadway or Area	51.48	\$ 8.50
150 W Roadway	72.72	\$11.25
250 W Roadway	114.48	\$15.50
250 W Flood	114.48	\$17.00
400 W Roadway	172.80	\$22.75
400 W Flood	172.80	\$23.75
1000 W Flood	424.80	\$51.50

Renewable Energy Charge at \$0.00050 per kWh (Not subject to any discounts.)

Deluxe "White" High Pressure Sodium Lamps

Additional \$2.50 charge to the above listed rates.
Not Available in 1000 W size.

Pole Charge

Wood Pole \$ 3.75
Non-Wood Pole \$11.00

The above pole charge will be applied to the foregoing lamp charges where the Department is requested to furnish a suitable pole, for the sole purpose of supporting a light fixture. If at a future date the pole is used for any purpose approved by the Department in addition to supporting a light fixture hereunder, the pole charge will be terminated.

DISCOUNT

No discount applies to off-street & contract lighting.

TERMS AND CONDITIONS

The above rate include the cost of overhead wires, light fixture, lamp, a control of the time of use, normal labor, and electricity. All repairs shall be made during normal working hours within 3 business days after notification from customer. Easements or right-of-entry releases, if required, will be provided at no cost to the Department.

The above rates do not include an underground supply, anchor guy, control switch, or a special light fixture requested by the customer. The cost of material and labor for anything other than a normal construction will be paid for by the customer.

This contract shall be for one (1) year and then cancelable on thirty (30) days notice subject to, if a pole was required, a termination charge equal to \$450 for a wood pole or original installed cost of a non-wood pole less the total accumulated monthly pole rental charges received to date shall apply. If a light fixture is to be used for a period of less than one (1) year, then a \$60.00 fee will apply.

Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts", in effect from time to time, where not inconsistent with any specific provisions hereof.

Filed August 12, 2009

Effective August 12, 2009

CITY OF HOLYOKE
GAS & ELECTRIC DEPARTMENT

STREET & TRAFFIC LIGHTING

AVAILABILITY

Service under this rate schedule is available monthly for all municipal street lighting and traffic signal purposes in the City of Holyoke.

RATE-APPLIED MONTHLY

The monthly energy consumption billed for street lighting consists of three components: Multiple Street Lights, Unmetered Traffic Signals, and Decorative Street Lighting. The kWh contribution of each of the these components represents the monthly total kWh consumption billed at the applicable \$/kWh rate which is determined for each annual period from July through June of the following year per Massachusetts General Laws Chapter 164, Section 58.

Renewable Energy Charge at \$0.00050 per kWh (Not subject to any discounts.)

Other monthly charges that are billed to the City of Holyoke include, but are not limited to, the following: Daylight Savings Time (DST) Charge, Maintenance Charge, Deluxe HPS Charge, and Turn On/Off Charge.

The kWh contribution calculations, procedures, and details on monthly charges are in accordance with Department Policy #DB-1 entitled "Street & Traffic Light Billing", in effect from time to time.

DISCOUNT

No discount applies to street & traffic lighting.

TERMS AND CONDITIONS

Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts", in effect from time to time, where not inconsistent with any specific provisions hereof.

**GENERAL SERVICE
ELECTRIC SCHEDULE**

AVAILABILITY

Service under this schedule is available for commercial, industrial, municipal and multiple apartment dwelling customers for both light and power.

RATE - APPLIED MONTHLY

Customer Charge: \$4.46 per meter

First 200 Hrs. Times Demand

First	3,000 kWh at .1181 per kWh
Next	12,000 kWh at .1096 per kWh
Next	85,000 kWh at .1033 per kWh
All over	100,000 kWh at .0949 per kWh

Next 200 Hrs. Times Demand (100 KW Minimum) at .0878 per kWh

All over 400 Hrs. Times Demand (100 KW Minimum) at .0728 per kWh

Renewable Energy Charge at \$0.00050 per kWh (Not subject to any discounts.)

AGRICULTURE/FARMING

Persons or corporations engaged in the business of agriculture or farming shall receive a discount of 10% from the rates shown above (prior to the prompt payment discount).

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill and provided that no discount will be allowed to customers having a power factor less than 85%.

PURCHASED POWER ADJUSTMENT

There shall be an adjustment in rate due to cost of power as provided in the Department's Standard Purchased Power Adjustment Clause in effect from time to time.

BACK-UP POWER

Customers who have on-site generation to meet some of their own load requirements shall be subject to a facilities charge as provided in the Department's Standby Facilities Clause in effect from time to time.

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed December 23, 2010

Effective January 11, 2011

LARGE GENERAL SERVICE CONTRACT SCHEDULE

AVAILABILITY

Service under this schedule is available to all commercial and industrial customers who have executed a long term contract, having a minimum monthly demand of 2,000 kW and a minimum monthly consumption of 1,000,000 kWh.

BASE RATE - APPLIED MONTHLY (2013 Rates)

Customer Charge	\$550.00	
	Consumption	Demand
	<u>\$/kWh</u>	<u>\$/kW</u>
Energy Charge	0.05654	11.87
Distribution	0.00626	4.32
Transmission	0.00401	7.19
Renewable Energy	0.00050	

DEMAND

The demand charge will be the highest thirty-minute average demand during the billing period.

DISCOUNT

A prompt payment discount of 10% applies for payments received within 15 days of billing, provided power factor is not less than 95%. No discount applies to the Renewable Energy charge.

ANNUAL ENERGY CHARGE ADJUSTMENT

Each January, beginning in 2012, the Energy Charge will be adjusted by multiplying the current year Energy Charge by the ratio of the immediately preceding year's WPU-054 as published by the Bureau of Labor Statistics divided by the second preceding year's WPU-054 index. Formula: $\text{New Energy Charge} = \text{Effective Energy Charge} * (A/B)$, where A=immediately preceding year's WPU-054 and B=second preceding year's WPU-054, applied to each of the consumption and demand respective components.

<i>Historical WPU-054 (A/B) of Formula</i>	
<i>Year</i>	<i>WPU-054 Calculation</i>
<i>2003</i>	<i>0.9877</i>
<i>2004</i>	<i>1.0314</i>
<i>2005</i>	<i>1.0156</i>
<i>2006</i>	<i>1.0475</i>
<i>2007</i>	<i>1.0786</i>
<i>2008</i>	<i>1.0352</i>
<i>2009</i>	<i>1.0508</i>
<i>2010</i>	<i>1.0239</i>
<i>2011</i>	<i>1.0261</i>
<i>2012</i>	<i>1.0233</i>
<i>2013</i>	<i>1.0079</i>

ANNUAL DISTRIBUTION ADJUSTMENT

Each January, beginning in 2012, the Distribution charge will be adjusted, by multiplying the current year Distribution charge by the ratio of the immediately preceding year's CPI (All cities/all items, non seasonally adjusted) as published by the Bureau of Labor Statistics divided by the second preceding year's CPI (All cities/all items, non seasonally adjusted). Formula: New Distribution=Effective Distribution *(A/B) where A=immediately preceding year's CPI and B=second preceding year's CPI, applied to each of the consumption and demand respective components.

<i>Historical CPI (A/B) of Formula</i>	
<i>Year</i>	<i>CPI Calculation</i>
2003	1.01581
2004	1.02279
2005	1.02663
2006	1.03388
2007	1.03226
2008	1.02848
2009	1.03840
2010	0.99644
2011	1.01640
2012	1.03157
2013	1.02069

ANNUAL TRANSMISSION ADJUSTMENT

Each January, beginning in 2012, the Transmission charge will be adjusted by multiplying the current year Transmission charge by the ratio of the immediately preceding year's HG&E transmission expenses as reported under FERC account numbers 560 through 574 as of the release date of the WPU-054 and CPI indices noted above divided by the second preceding year's HG&E transmission expenses. Formula: New Transmission=Effective Transmission *(A/B), where A=immediately preceding year's HG&E Transmission Expenses and B=second preceding year's HG&E Transmission Expenses, applied to each of the consumption and demand respective components.

TERMS AND CONDITIONS

Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts". Adjustments are based on preliminary indices and/or costs as of release dates in January each year.

A Renewable Energy charge established by the State Legislature shall be accessed which allows customer's participation in the Massachusetts Renewable Energy Trust. Current rate level which has remained unchanged since January 1, 2003 is shown.

Filed June 13, 2011

Effective July 12, 2011

SMALL INDUSTRIAL SCHEDULE

AVAILABILITY

Service under this schedule is available to small industrial users who are primarily engaged in manufacturing subject to meeting the following two conditions:

- 1) monthly demand of less than 115 kW or monthly consumption of less than 40,000 kWh; and
- 2) monthly consumption of greater than 2,000 kWh.

RATE - APPLIED MONTHLY

Customer Charge \$20.00 per meter.

Energy Charge First 3000 kWh at \$.10820/kWh
Next 12,000 kWh at \$.10009/kWh
All over 15,000 kWh at \$.08548/kWh

Renewable Energy Charge at \$0.00050 per kWh (Not subject to any discounts.)

DISCOUNT

A discount of 10% will be allowed on current gross bills provided the bill, including any arrearage, is paid in full within fifteen (15) days of date of bill and provided that no discount will be allowed to customers having a power factor less than 85%.

PURCHASED POWER ADJUSTMENT

There shall be an adjustment in rate due to cost of power as provided in the Department's Standard Purchased Power Adjustment Clause in effect from time to time.

BACK-UP POWER

Customers who have on-site generation to meet some of their own load requirements shall be subject to a facilities charge as provided in the Department's Standby Facilities Clause in effect from time to time.

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts."

Filed June 22, 2011

Effective August 10, 2011

DISTRIBUTED GENERATION PURCHASED POWER CLAUSE

AVAILABILITY

This clause is applicable to all electric rate schedules. Qualifying distributed generation (DG) systems hereinafter called "Facility" or "Facilities" include, but are not limited to: Photovoltaics, Wind, Hydroelectric, Biomass, Fuel Cells, Combined Heat and Power (CHP), and Municipal Solid Waste with generation facilities rated 500 kW or less. Any DG system rated greater than 500 kW needs to be contracted through Department under a separate written agreement. If customer proposes a different DG system than specifically stated above, then customer must provide written request to Department which will conduct a 30 day review to determine if such DG system is qualified or not under this clause.

RATE - APPLIED MONTHLY

A \$2.00 monthly customer charge for the qualifying Facility meter shall be provided.

All monthly kWh produced by the Facility will be credited to the customer on their monthly invoice. The amount of credit due to customer includes a Wholesale Energy Rate applicable to the Facility type installed at customer site. The applicable Wholesale Energy Rate, specific to Facility types installed and/or requested within Department's service territory, will be posted and updated at Department discretion from time to time on its website as warranted. All other rates and charges in effect are not included in the credit amount.

Total credit due customer = (Monthly kWh produced by qualifying Facility) x (Wholesale Energy Rate in effect for applicable Facility type) - \$2.00 monthly customer charge

There is no minimum amount on a monthly bill. Credit is based solely on kWh produced by the Facility. Payment to the customer will first be applied to any outstanding bills. If credit is greater than customer's bill, then the additional credit balance will be applied to the next monthly invoice.

As a further incentive to the Department's increase in carbon-free resources, qualifying Facilities will not be subject to a Standby Facilities Generation Charge. Additionally, photovoltaic (solar) projects will be eligible for applicable On-Peak Wholesale Energy Rate that is a higher credit than the monthly average applicable rate.

TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Service is governed by the "Rules and Regulations" and the "Distribution Generation Policy" of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts, as in effect from time to time. The Department may impose additional Terms and Conditions, as it deems necessary, in its sole discretion, for the protection of its distribution system, service territory, or its customers. Failure of the Facility to comply with any of the referenced terms and conditions may result in disconnection of the Facility from the Department's system.

Filed October 10, 2012

Effective November 10, 2012

POWER WHEELING SERVICE

AVAILABILITY

This clause is applicable to any customer with generating facilities (Facility) for the purpose of wheeling (carrying) power to the 115 kV transmission system (Delivery Point), which is through and beyond the Department's applicable distribution and substation facilities. This is for customers who desire to sell any or all generation either into the wholesale market or to others via the interconnected power grid. The Department prohibits the selling of any generation to any other customer within the Department's service territory, with exception of separate agreements that can be executed between customer and Department. Capacity requested for, and any subsequent six (6) month advanced notice increase request, are contingent upon availability and at the discretion of the Department.

RATE - APPLIED MONTHLY

\$ 4.26 per kilowatt of contracted capacity

It is intended that the above rate will be updated annually based on applicable cost variations to Department's distribution, substation, metering, and loss components as applicable to wheeling such power from customer's site to the Delivery Point.

There is no discount to the above rate. All bills shall be payable upon receipt. All bills unpaid after thirty (30) days will be subject to an interest charge of 1.5% per month on unpaid balance.

TERMS AND CONDITIONS

Customer will contract for a fixed monthly capacity reservation for a minimum period of three (3) years. Contract will continue on an annual basis thereafter. Contracted capacity shall equal the billable kilowatts of wheeled capacity irrespective of whether or not any energy was actually transported by HG&E and whether or not such actual wheeled capacity was at or below the contracted amount. Inadvertent excess and uncontracted capacity requirements (actual wheeled capacity above contracted amount) placed on the Department's system shall be billed at ten (10) times the above rate for such excess. The excess will continue to be billed at ten (10) times the above rate, until such time as the excess condition is removed or until contracted with the Department.

Connection to the Department's system shall be at customer expense, including any costs associated with metering and communications that allow for the Department to have real-time access to generator's status and performance. The Department shall determine the exact location of point of interconnection and Delivery Point.

Service is governed by the "Rules and Regulations" and the "Distribution Generation Policy" of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts, as in effect from time to time. The Department may impose additional Terms and Conditions, as it deems necessary, in its sole discretion, for the protection of its distribution system, service territory, or its customers. Failure of the Facility to comply with any of the referenced terms and conditions may result in disconnection of the Facility from the Department's system.

Filed November 7, 2012

Effective December 10, 2012

CITY OF HOLYOKE
GAS & ELECTRIC DEPARTMENT

LARGE INDUSTRIAL CONTRACT SCHEDULE

AVAILABILITY

Service under this schedule is available to industrial users who are primarily engaged in manufacturing who have executed a long term contract, having a minimum monthly demand of 115 kW and a minimum monthly consumption of 40,000 kWh.

BASE RATE - APPLIED MONTHLY (2013 RATE)

Customer Charge \$286.00

	Consumption	Demand
	<u>\$/kWh</u>	<u>\$/kW</u>
Energy Charge	0.06701	3.26
Distribution:	0.01130	3.74
Transmission:	0.01228	
Renewable Energy	0.00050	

DEMAND

The demand charge will be the highest thirty-minute average demand during the billing period.

DISCOUNT

A prompt payment discount of 10% applies for payments received within 15 days of billing, provided power factor is not less than 85%. No discount applies to the Renewable Energy charge.

BASE RATE ADJUSTMENTS

The base rates shown above will be adjusted annually, beginning in 2013, per sections 1.5, 1.6, 1.7 and 1.8 of this Agreement.

TERMS AND CONDITIONS

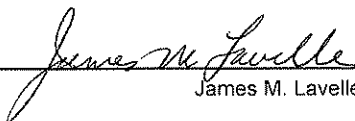
Bills are due and payable 30 days after date of billing. Service is governed by the "Rules and Regulations of the Holyoke Gas & Electric Department, City of Holyoke, Massachusetts".

Filed September 1, 2012

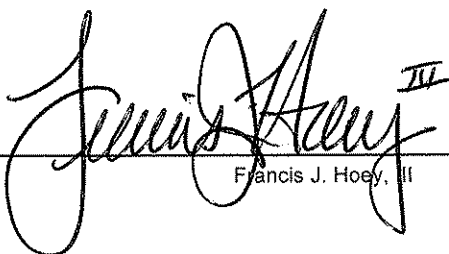
Effective October 1, 2012

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

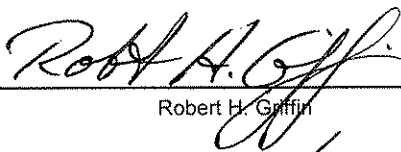
Manager
Holyoke Gas and Electric
Department


James M. Lavelle

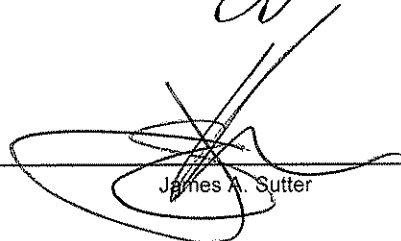
Commissioner
Holyoke Gas and Electric
Department


Francis J. Hoey, III

Commissioner
Holyoke Gas and Electric
Department


Robert H. Griffin

Commissioner
Holyoke Gas and Electric
Department


James A. Sutter

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 agents and servants, the method, time, price, quantity and quality of the supply, the collection of bills, and the keeping of accounts. His compensation and term of office shall be fixed in cities by the city council and in towns by the selectmen or municipal light board, if any; and, before entering upon the performance of his official duties, he shall give bond to the city or town for the faithful performance thereof in a sum and form and with sureties to the satisfaction of the mayor, selectmen or municipal light board, if any, and shall, at the end of each municipal year, render to them such detailed statement of his doings and of the business and financial matters in his charge as the department may prescribe. All moneys payable to or received by the city, town, manager or municipal light board in connection with the operation of the plant, for the sale of gas or electricity or otherwise shall be paid to the city or town treasurer. All accounts rendered to or kept in the gas or electric plant of any city shall be subject to the inspection of the city auditor or officer having similar duties, and in towns they shall be subject to the inspection of the 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 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 section 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 percent of the cost of the plant exclusive of land and any water power appurtenant thereto, or such smaller or larger amount as the department may approve, the requirements of the sinking fund or debt incurred for the plant, and the loss, if any, in the operation of the plant during the preceding year, and of the costs, as defined in section 58, 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 no debt shall be incurred under section forty for extension, reconstruction or enlargements of the plant in excess of the amount needed therefore in addition to the amount then on hand in said depreciation fund. 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. 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 expenses 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 and 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 refused or neglects to make such a 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 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 and information in equity brought in the supreme judicial court by the attorney general, at the relation of the department, and when so recovered shall be paid to the commonwealth.

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