



*The Commonwealth of Massachusetts*  
*Department of Public Utilities*  
*Mark D. Marini, Department Secretary*  
*One South Station*  
*Boston, MA 02110*

TO THE MAYORS, SELECTMEN, MUNICIPAL LIGHTS BOARDS AND MANAGERS OF MUNICIPAL LIGHTING IN THE SEVERAL CITIES AND TOWNS IN THIS COMMONWEALTH OPERATING GAS OR ELECTRIC LIGHT PLANTS:

This form of the Annual Return should be filled out and one original and a duplicate copy (which may be a photocopy) should be returned to the Office of the Department of Public Utilities, One South Station, Boston, Massachusetts 02110, by March 31st of the year following the calendar year of the report in accordance with the statutes of the Commonwealth and the regulations of the Department made in pursuance thereof.

Where the word "None" truly and completely states the fact, it should be given as the answer to any particular inquiry or portion of an inquiry.

If respondent so desires, cents may be omitted in the balance sheet, income however, shall agree with even-dollar amounts in the main schedules. Averages and extracted figures, where cents are important, must show cents for reasons which are apparent.

Special attention is called to the legislation in regard to the Returns placed in the last page.

Submit Electronic Version to:  
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Mail Original DPU Report to:  
Mark D. Mariani                      Department Secretary

Mail Copy of DPU Report to:  
Kevin Brannelly                      Director, Rates and Revenue Requirements Division  
George Yiankos                      Director, Gas Division



# *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,**

**2023**

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

Brooke M. McMahon

Official Title:

Director of Finance & Accounting

Office Address:

99 Suffolk Street  
Holyoke, MA 01040

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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.....	25,760,186
2	From Sales of Electricity.....	53,555,452
3	From Sales of Steam and Sundries.....	3,736,605
4	TOTAL	<b>83,052,243</b>
EXPENSES:		
6	For operation, maintenance and repairs.....	73,644,851
7	For interest on bonds, notes or scrip.....	1,741,052
8	For depreciation fund ( 3% on \$299,644,256 as per page 8B & 9A ).....	<b>8,989,328</b>
9	For sinking fund requirements.....	
10	For note payments.....	
11	For bond payments.....	6,747,139
12	For loss in preceding year.....	
13	TOTAL	<b>91,122,369</b>
COST:		
16	Of gas to be used for municipal buildings.....	959,091
17	Of gas to be used for street lights.....	
18	Of electricity to be used for municipal buildings (includes telecom).....	3,297,012
19	Of electricity to be used for street lights.....	381,288
20	Of steam.....	
21	Total of the above items to be included in the tax levy.....	<b>4,637,391</b>
22	New construction to be included in the tax levy.....	
23	Total amounts to be included in the tax levy.....	<b>4,637,391</b>

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	10,379	Holyoke, MA	17,335
Southampton, MA	1,187	Southampton, MA	139
Westfield, MA	8	Westfield, MA	0
TOTAL	<b>11,574</b>	TOTAL	<b>17,474</b>

APPROPRIATIONS SINCE BEGINNING OF YEAR

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

FOR CONSTRUCTION OR PURCHASE OF PLANT:

* At	meeting	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.....	\$	381,288
2. Municipal Buildings.....		4,256,103
3. Steam.....		0
	\$	<u>4,637,391</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:







TOTAL COST OF PLANT - ELECTRIC

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

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	1. INTANGIBLE PLANT						
2							
3							
4	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.....	1,052,188					1,052,188
9	312 Boiler Plant Equipment.....	3,154					3,154
10	312-01 Boiler Plant Equipment Comm.....						
11	313 Engines and Engine Driven Generators.....						
12	314 Turbogenerator Units.....						
13	315 Accessory Electric Equipment.....	(0)					(0)
14	316 Miscellaneous Power Plant Equipment.....	30,288					30,288
15	Total Steam Production Plant	1,085,630	0	0	0	0	1,085,630
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.....	876,412					876,412
3	331 Structures and Improvements.....	25,417,099	570,249	32,325		(74,819)	25,880,204
4	332 Reservoirs, Dams and Waterways....	22,489,131	49,842	30,892		74,819	22,582,900
5	333 Waterwheels, Turbines and Generators.....	32,938,922		40,196			32,898,726
6	334 Accessory Electric Equipment.....	5,624,656	12,318	462,607			5,174,367
7	335 Miscellaneous Power Plant Equipment.....	415,751	77,200	17,439			475,513
8	336 Roads, Railroads and Bridges.....	52,718					52,718
9	Total Hydraulic Production Plant	87,814,689	709,610	583,460	0	0	87,940,838
10	D. Other Production Plant						
11	340 Land and Land Rights.....	15,040					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	15,040	0	0	0	0	15,040
19	TOTAL PRODUCTION PLANT	88,915,359	709,610	583,460	0	0	89,041,508
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....	791,616	150,888				942,504
22	350-01 Transmission & Row	0					0
23	351 Energy Storage Equip - Transmission...	0					0
24	352 Structures and Improvements.....						
25	353 Station Equipment.....	13,743,791	59,764				13,803,555
26	354 Towers and Fixtures.....						
27	355 Poles and Fixtures.....	3,015,079	6,528	4,682			3,016,925
28	356 Overhead Conductors and Devices...	1,072,896					1,072,896
29	357 Underground Conduits.....	1,620					1,620
30	358 Underground Conductors and Devices	0					0
31	359 Roads and Trails.....	504,237	564,525				1,068,762
32	TOTAL TRANSMISSION PLANT	19,129,239	781,705	4,682	0	0	19,906,262

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.....	2,519,363			150,888		2,670,250	
3	361 Structures and Improvements.....	341,023					341,023	
4	362 Station Equipment.....	22,321,275	473,709				22,794,984	
5	363 Storage Battery Equipment.....	0	2,277				2,277	
6	364 Poles, Towers and Fixtures.....	6,713,365	256,272	147,899			6,821,738	
7	365 Overhead Conductors and Devices....	10,068,433	1,524,139	352,344			11,240,228	
8	366 Underground Conduits.....	14,254,265	355,346				14,609,611	
9	367 Underground Conductors & Devices...	19,911,606	773,023	225,676			20,458,953	
10	368 Line Transformers (Over & Under).....	6,393,200	417,402	347,755			6,462,847	
11	369 Services (Over & Under).....	4,249,742	157,718	33,093			4,374,367	
12	370 Meters-Consumer's Expense.....	3,320,765	410,984	235,304			3,496,446	
13	371 Installation on Cust's Premises.....	1,101,317	8,211	2,663			1,106,865	
14	373 Street Light and Signal Systems.....	4,065,989	94,388	9,478			4,150,899	
15	3** Telecommunications.....	10,475,419	630,517	19,257			11,086,679	
16	TOTAL DISTRIBUTION PLANT	105,735,762	5,103,987	1,373,470	150,888	0	109,617,166	
17	5. GENERAL PLANT							
18	389 Land and Land Rights.....	98,576					98,576	
19	390 Structures and Improvements.....	4,678,214	156,209	11,181			4,823,242	
20	391/391-01 Office Furn & Equip/Comp Equip.....	3,176,450	141,967	52,888			3,265,530	
21	392 Transportation Equipment.....	3,154,455	118,725	122,782			3,150,398	
22	393 Stores Equipment.....	62,711					62,711	
23	394 Tools, Shop and Garage Equipment...	157,191	35,235	2,690			189,736	
24	395 Laboratory Equipment.....	174,168					174,168	
25	396 Power Operated Equipment.....	175,252		16,115	9,740		168,876	
26	397 Communication Equipment.....	862,107		13,768			848,339	
27	398 Miscellaneous Equipment.....	132,602		11,358			121,244	
28	399 Other Tangible Property.....							
29	3** Telecommunications.....	2,612,534	745,878	64,611			3,293,801	
30	TOTAL GENERAL PLANT	15,284,260	1,198,014	295,394	9,740	0	16,196,621	
31	TOTAL ELECTRIC PLANT IN SERVICE	229,064,620	7,793,316	2,257,006	160,627	0	234,761,557	
32	TOTAL COST OF ELECTRIC PLANT.....							234,761,557
33								
34	Less Cost of Land, Land Rights, and Rights of Way.....							4,709,781
35	Total Cost upon which depreciation is based.....							230,051,775

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.

Note: Asset figures above exclude right to use asset recorded under GASB statement #87 as those assets are not owned by the Department but required to be accounted for as assets under GASB statement #87

## 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.....	84,563					84,563
8	305 Structures and Improvements.....	228,526	83,673				312,199
9	306 Boiler Plant Equipment.....						
10	307 Other Power Plant Equipment.....	2,368					2,368
11	310 Water Gas Generating Equipment..						
12	311 Liquefied Petroleum Gas Equipment..	2,867					2,867
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.....	1,598,948					1,598,948
20	320 Other Equipment.....	16,647					16,647
21	TOTAL MANUFACTURED GAS PRODUCTION PLANT	1,933,918	83,673	0	0	0	2,017,590
22	3. STORAGE PLANT						
23	360 Land and Land Rights.....						
24	361 Structures and Improvements.....	751,154		18,472			732,682
25	362 Gas Holders.....						
26	363 Other Equipment.....						
30	TOTAL STORAGE PLANT	751,154	0	18,472	0	0	732,682

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.....	92,538					92,538	
3	365.2 Rights-of-Way.....							
4	366 Structures and Improvements.....	890,567					890,567	
5	367 Mains.....	26,315,366	1,189,172	72,293			27,432,245	
6	368 Compressor Station Equipment...	127,047					127,047	
7	369 Measuring and Regulating Station Equipment.....	2,349,760	728,473	23,201			3,055,032	
8	370 Comm Equip Meters/Telemeter.....	366,829					366,829	
9	380 Services.....	22,081,419	1,950,920	245,161			23,787,178	
10	381 Meters.....	5,300,913	35,848	36,704			5,300,058	
11	382 Meter Installations.....	5,086					5,086	
12	383 House Regulators.....							
13	386 Other Property on Cust's Prem...							
14	387 Other Equipment.....	24,871					24,871	
15	TOTAL TRANSMISSION AND DISTRIBUTION PLANT	57,554,396	3,904,414	377,359	0	0	61,081,451	
17	5. GENERAL PLANT							
18	389 Land and Land Rights.....	59,754					59,754	
19	390 Structures and Improvements.....	1,687,981	72,428				1,760,409	
20	391/391-01 Office Furn & Equip/Comp Equip	1,630,302	221,562		(2,166)		1,849,697	
21	392 Transportation Equipment.....	1,340,404	97,431	21,485			1,416,350	
22	393 Stores Equipment.....	18,710					18,710	
23	394 Tools, Shop and Garage Equipment	463,800	18,377				482,176	
24	395 Laboratory Equipment.....							
25	396 Power Operated Equipment.....	13,415					13,415	
26	397 Communication Equipment.....	372,354					372,354	
27	398 Miscellaneous Equipment.....	24,747					24,747	
28	399 Other Tangible Property.....							
29	TOTAL GENERAL PLANT	5,611,467	409,797	21,485	(2,166)	0	5,997,613	
30	TOTAL GAS PLANT IN SERVICE	65,850,935	4,397,884	417,316	(2,166)	0	69,829,336	
31	TOTAL COST OF GAS PLANT.....							69,829,336
32								
33	Less Cost of Land, Land Rights, and Rights of Way.....							236,856
34	Total Cost upon which depreciation is based.....							69,592,481

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).....	140,595,446	143,783,346	3,187,900
3	101 Utility Plant in Service - Gas (pg 20).....	32,557,289	35,432,848	2,875,558
4	Non Operating Plant.....	5,988,390	5,988,390	0
5	TOTAL UTILITY PLANT	179,141,125	185,204,583	6,063,458
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.....	30,002,071	33,238,763	3,236,692
15	TOTAL FUNDS	30,002,071	33,238,763	3,236,692
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (pg 14).....	3,188,144	4,492,837	1,304,693
18	132 Special Deposits.....	1,654,299	1,787,554	133,255
19	132 Working Funds.....	15,350	15,350	0
20	141 Notes and Receivables.....			
21	142 Customer Accounts Receivable.....	8,128,892	7,795,963	(332,929)
22	143 Other Accounts Receivable.....			
23	146 Receivables from Municipality.....	505,442	439,851	(65,591)
24	151 Materials and Supplies (pg 14).....	6,446,899	6,546,730	99,831
25	163 Stores Expense.....			
26	165 Prepayments.....	51,269,057	54,430,008	3,160,951
27	174 Miscellaneous Current Assets.....	13,549,035	12,421,041	(1,127,994)
28	TOTAL CURRENT AND ACCRUED ASSETS	84,757,118	87,929,334	3,172,216
29	DEFERRED DEBITS			
30	181 Unamortized Debt Discount.....	596,666	529,999	(66,667)
31	182 Extraordinary Property Debits.....			
32	185 Other Deferred Debits.....	0	0	0
33	TOTAL DEFERRED DEBITS	596,666	529,999	(66,667)
34				
35	TOTAL ASSETS AND OTHER DEBITS	294,496,980	306,902,679	12,405,699

## 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.....	0	0	0
6	207 Appropriations for Construction Repayment.....			
7	208 Unappropriated Earned Surplus (pg 12).....	110,373,168	129,122,783	18,749,615
8	TOTAL SURPLUS	110,373,168	129,122,783	18,749,615
9	LONG TERM DEBT			
10	221 Bonds (pg 6).....	0	0	0
11	231 Notes Payable (pg 7).....	0	0	0
12	228 Net Pension Liability.....	17,300,177	26,765,215	9,465,038
13	TOTAL BONDS AND NOTES	17,300,177	26,765,215	9,465,038
14	CURRENT AND ACCRUED LIABILITIES			
15	232 Accounts Payable.....	14,118,522	10,300,559	(3,817,963)
16	234 Payables to Municipality.....			
17	235 Customer Deposits.....	1,686,891	1,759,462	72,571
18	236 Taxes Accrued.....			
19	237 Interest Accrued.....	0	0	0
20	242 Miscellaneous Current and Accrued Liabilities.....	0	0	0
21	TOTAL CURRENT AND ACCRUED LIABILITIES	15,805,413	12,060,021	(3,745,392)
22	DEFERRED CREDITS			
23	251 Unamortized Premium on Debt.....			
24	252 Customer Advance for Construction.....			
25	253 Other Deferred Credits.....	150,268,956	138,205,397	(12,063,559)
26	TOTAL DEFERRED CREDITS	150,268,956	138,205,397	(12,063,559)
27	RESERVES			
28	260 Reserves for Uncollectible Accounts.....	749,267	749,267	0
29	261 Property Insurance Reserve.....			
30	262 Injuries and Damages Reserves.....			
31	263 Pensions and Benefits.....			
32	265 Miscellaneous Operating Reserves.....			
33	TOTAL RESERVES	749,267	749,267	0
34	CONTRIBUTIONS IN AID OF CONSTRUCTION			
35	271 Contributions in Aid of Construction.....			0
36	TOTAL LIABILITIES AND OTHER CREDITS	294,496,981	306,902,683	12,405,702

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) .....	89,394,166	4,076,846
3	Operating Expenses:		
4	401 Operation Expense (pg 42 and pg 47).....	52,308,748	(3,849,875)
5	402 Maintenance Expense (pg 42 and pg 47).....	13,098,303	(463,983)
6	403 Depreciation Expense .....	8,708,121	365,069
7	407 Amortization of Property Losses.....	0	0
8			
9	408 Taxes (pg 49).....		
10	Total Operating Expenses	74,115,172	(3,948,789)
11	Operating Income	15,278,994	8,025,635
12	414 Other Utility Operating Income (pg 50).....	0	0
13			
14	Total Operating Income	15,278,994	8,025,635
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (pg 51).....	(6,605)	(34,188)
17	419 Interest Income.....	5,583,208	13,627,306
18	421 Miscellaneous Nonoperating Income.....	1,045,033	(115,028)
19	Total Other Income	6,621,636	13,478,090
20	TOTAL INCOME	21,900,630	21,503,725
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Amortization.....		
23	426 Other Income Deductions.....	1,444,758	(40,609)
24	Total Income Deductions	1,444,758	(40,609)
25	Income before Interest Charges	20,455,872	21,544,334
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes.....	175,421	(30,384)
28	428 Amortization of Debt Discount and Expense.....	254,990	7,985
29	429 Amortization of Premium on Debt.....		
30	431 Other Interest Expense.....	1,508	(191)
31	432 Interest Charged to Construction-Credit.....		
32	Total Interest Charges	431,919	(22,590)
33	NET INCOME	20,023,953	21,566,924

## EARNED SURPLUS

Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of Period).....		110,373,168
35	Adjustment to correct Unappropriated Earned Surplus.....		
36	Adjustment to correct Unappropriated Earned Surplus.....		0
37	433 Balance transferred from Income.....		20,023,953
38	434 Miscellaneous Credits to Surplus (pg 21).....	0	
39	435 Miscellaneous Debits to Surplus (pg 21).....	1,274,336.8	
40	436 Appropriations of Surplus (pg 21).....	0	
41	437 Surplus Applied to Depreciation.....		
42	208 Unappropriated Earned Surplus (at end of period).....	129,122,783	
43			
44	TOTALS	130,397,121	130,397,121



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
62,288,711	6,146,261	27,105,454	(2,069,416)	2
				3
33,285,842	(1,712,974)	19,022,906	(2,136,901)	4
10,198,083	(912,009)	2,900,220	448,026	5
6,739,698	231,344	1,968,422	133,724	6
				7
				8
				9
50,223,624	(2,393,638)	23,891,548	(1,555,151)	10
12,065,088	8,539,900	3,213,906	(514,265)	11
0	0			12
				13
12,065,088	8,539,900	3,213,906	(514,265)	14
				15
(5,162)	(4,075)	(1,443)	(30,113)	16
5,045,255	12,359,259	537,952	1,268,046	17
980,973	(149,894)	64,060	34,866	18
6,021,066	12,205,290	600,570	1,272,800	19
18,086,153	20,745,189	3,814,476	758,535	20
				21
				22
1,315,094	(65,609)	129,664	25,000	23
1,315,094	(65,609)	129,664	25,000	24
16,771,059	20,810,798	3,684,812	733,535	25
				26
175,421	(30,384)	0	0	27
254,990	7,985	0	0	28
				29
0	0	1,508	(191)	30
				31
430,411	(22,399)	1,508	(191)	32
16,340,648	20,833,197	3,683,304	733,726	33

16,340,649

(0)

3,683,304

(0)

CASH BALANCES AT END OF YEAR (Account 131)

Line No.	Items (a)	Amount (b)
1	Operation Fund.....	4,492,837
2	Interest Fund.....	
3	Bond Fund.....	
4	Construction Fund.....	
5		
6		
7		
8		
9		
10		
11		
12	TOTAL	4,492,837

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	845,085
15	Residuals (Account 153).....		
16	Plant Materials and Operating Supplies (Account 154).....	4,443,438	1,258,207
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	4,443,438	2,103,292

DEPRECIATION FUND ACCOUNT (Account 126)

Line No.	(a)	Amount (b)
25	Balance of Account at Beginning of Year.....	0
26	Income During Year from Balance on Deposit.....	8,708,121
27	Amount Transferred from Income.....	
28	TOTAL	8,708,121
29		
30	CREDITS	
31	Amount expended for Construction Purposes (Sec. 57, C. 164 of G.L.).....	0
32	Amounts Expended for Renewals.....	8,708,121
33		
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year.....	0
40	TOTAL	8,708,121

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.....	174,762		8,964			165,798
9	312 Boiler Plant Equipment.....	0					0
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.....	0					0
15							
16	Total Steam Production Plant	174,762	0	8,964	0	0	165,798
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.....	876,412					876,412
3	331 Structures and Improvements.....	19,066,740	570,249	756,929	7,006	(74,819)	18,798,234
4	332 Reservoirs, Dams and Waterways...	11,532,813	49,842	676,121	14,934	74,819	10,966,419
5	333 Waterwheels, Turbines and Generators.....	22,908,354		1,005,120	10,631		21,892,603
6	334 Accessory Electric Equipment.....	3,602,667	12,318	155,280	3,684		3,456,021
7	335 Miscellaneous Power Plant Equipment.....	320,014	77,200	12,490	13,664		371,061
8	336 Roads, Railroads and Bridges.....	52,718		1,598			51,121
9	Total Hydraulic Production Plant	58,359,717	709,610	2,607,538	49,918	0	56,411,870
10	D. Other Production Plant						
11	340 Land and Land Rights.....	15,040					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	15,040	0	0	0	0	15,040
19	TOTAL PRODUCTION PLANT	58,549,519	709,610	2,616,502	49,918	0	56,592,709
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....	791,616	150,888				942,504
22	350-01 Transmission & Row	0					0
23	351 Clearing Land and Rights of Way....	0					0
24	352 Structures and Improvements.....	0					0
25	353 Station Equipment.....	8,867,607	59,764	238,598			8,688,773
26	354 Towers and Fixures.....	0					0
27	355 Poles and Fixtures.....	1,137,877	6,528	55,010			1,089,396
28	356 Overhead Conductors and Devices....	137,003		17,605			119,398
29	357 Underground Conduits.....	1,620		36			1,584
30	358 Underground Conductors and Devices.....	0					0
31	359 Roads and Trails.....	500,882	564,525	11,194			1,054,213
32	TOTAL TRANSMISSION PLANT	11,436,606	781,705	322,443	0	0	11,895,868

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.....	2,519,363				150,888	2,670,250
3	361 Structures and Improvements.....	21,326		4,593			16,733
4	362 Station Equipment.....	16,018,588	473,709	623,740			15,868,557
5	363 Storage Battery Equipment.....		2,277				2,277
6	364 Poles, Towers and Fixtures.....	4,333,484	256,272	225,220	13,690		4,350,847
7	365 Overhead Conductors and Devices...	4,893,145	1,524,139	325,872	79,075		6,012,337
8	366 Underground Conduit.....	6,661,786	355,346	451,447			6,565,686
9	367 Underground Conductors and Devices	12,818,248	773,023	621,167	45,771		12,924,333
10	368 Line Transformers (Over & Under).....	3,239,405	417,402	239,433	12,761		3,404,613
11	369 Services (Over & Under).....	1,038,674	157,718	175,130	6,619		1,014,644
12	370 Meters.....	2,378,991	410,984	123,442	4,651		2,661,883
13	371 Installation on Cust's Premises.....	181,049	8,211	56,858	2,080		130,322
14	373 Street Lighting and Signal Systems....	1,551,816	94,388	145,762	6,800		1,493,641
15	3** Telecommunications.....	7,282,289	630,517	242,235	8,853		7,661,718
16	TOTAL DISTRIBUTION PLANT	62,938,163	5,103,987	3,234,897	180,299	150,888	64,777,841
17	5. GENERAL PLANT						
18	389 Land and Land Rights.....	98,576					98,576
19	390 Structures and Improvements.....	2,565,923	156,209	136,848	7,010		2,578,273
20	391/391-01 Office Furn & Equip/Comp Equip	873,720	141,967	131,889	2,823		880,975
21	392 Transportation Equipment.....	186,630	118,725	93,430			211,925
22	393 Stores Equipment.....	29,591		6,271			23,320
23	394 Tools, Shop and Garage Equipment..	39,922	35,235	9,566	825		64,766
24	395 Laboratory Equipment.....	0					0
25	396 Power Operated Equipment.....	52,081		11,346	1,484		39,251
26	397 Communication Equipment.....	192,617		27,376	2,572		162,669
27	398 Miscellaneous Equipment.....	28,966		1,936	4,976		22,054
28	399 Other Tangible Property.....						
29	3** Telecommunications.....	691,209	745,878	147,194	234		1,289,659
30	TOTAL GENERAL PLANT	4,759,236	1,198,014	565,857	19,925	0	5,371,469
31	TOTAL ELECTRIC PLANT IN SERVICE	137,683,523	7,793,316	6,739,698	250,142	150,888	138,637,886
32	104 Utility Plant leased to Others.....						
33	105 Property Held for Future Use.....	0					0
34	107 Construction Work in Progress.....	2,911,923	6,185,408		3,951,871		5,145,460
	108 Accumulated Depreciation						
35	TOTAL UTILITY ELECTRIC PLANT	140,595,446	13,978,724	6,739,698	4,202,013	150,888	143,783,346

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.....	1,140,846	0	0	274,647	945,415
2	Received During Year.....	487,956	0	0	147,003	207,470
3	TOTAL	1,628,802	0	0	421,650	1,152,885
4	Used During Year (Note A).....	783,717			129,599	444,894
5	(Boiler Fuel)					
6						
7						
8						
9						
10						
11	Sold or Transferred.....	0				
12	TOTAL DISPOSED OF	783,717	0	0	129,599	444,894
13	BALANCE END OF YEAR	845,085	0	0	292,051	707,991

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	201,159	195,431
15	Received During Year.....	0	0	344,735	280,487
16	TOTAL	0	0	545,894	475,917
17	Used During Year (Note A).....	0	0	366,635	338,823
18	(Boiler Fuel)				
19					
20					
21					
22					
23					
24	Sold or Transferred.....				
25	TOTAL DISPOSED OF	0	0	366,635	338,823
26	BALANCE END OF YEAR	0	0	179,259	137,094

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.....	84,563					84,563
8	305 Structures and Improvements.....	127,666	83,673	4,523			206,815
9	306 Boiler Plant Equipment.....						
10	307 Other Power Plant Equipment.....	1,715		71			1,644
11	310 Water Gas Generating Equipment...						
12	311 Liquefied Petroleum Gas Equipment.....	(0)					(0)
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.....	192,778		20,963			171,814
20	320 Other Equipment.....	13,501		499			13,001
21	TOTAL MANUFACTURED GAS PRODUCTION PLANT	420,222	83,673	26,056	0	0	477,839
22	2. STORAGE PLANT						
23	360 Land and Land Rights.....						
24	361 Structures and Improvements.....	564,307		21,837	7,453		535,017
25	362 Gas Holders.....						
26	363 Other Equipment.....						
27	TOTAL STORAGE PLANT	564,307	0	21,837	7,453	0	535,017

## 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.....	92,538					92,538
3	365.2 Rights-Of-Way.....						
4	366 Structures and Improvements.....	32,286		2,349			29,937
5	367 Mains.....	10,787,949	1,189,172	794,364	13,583		11,169,174
6	368 Compressor Station Equipment.....	96,982		3,821			93,161
7	369 Measuring and Regulating Station Equipment.....	1,886,722	728,473	70,212	10,364		2,534,620
8	370 Communication Equip/Telemeter....	221,680		11,005			210,675
9	380 Services.....	13,743,161	1,950,920	667,346	93,966		14,932,770
10	381 Meters.....	2,443,992	35,848	163,931	4,297		2,311,612
11	382 Meter Installations.....	1,103		153			951
12	383 House Regulators.....						
13	386 Other Property on Cust's Prem.....						
14	387 Other Equipment.....	163		163			(0)
15	TOTAL TRANSMISSION AND DISTRIBUTION PLANT	29,306,576	3,904,414	1,713,343	122,211	0	31,375,437
16	5. GENERAL PLANT						
17	389 Land and Land Rights.....	59,754					59,754
18	390 Structures and Improvements.....	609,399	72,428	47,384			634,443
19	391/391-01 Office Furn & Equip/Comp Equip	500,465	221,562	71,290			650,737
20	392 Transportation Equipment.....	142,815	97,431	50,990			189,256
21	393 Stores Equipment.....	13,097		1,871			11,226
22	394 Tools, Shop and Garage Equipment	166,911	18,377	19,813			165,474
23	395 Laboratory Equipment.....						
24	396 Power Operated Equipment.....	5,409		902			4,508
25	397 Communication Equipment.....	103,144		13,937			89,207
26	398 Miscellaneous Equipment.....	7,044		1,000			6,044
27	399 Other Tangible Property.....						
28	TOTAL GENERAL PLANT	1,608,039	409,797	207,187	0	0	1,810,649
29	TOTAL GAS PLANT IN SERVICE	31,899,144	4,397,884	1,968,422	129,664	0	34,198,942
30	104 Utility Plant leased to Others.....						
31	105 Property Held for Future Use.....	0					0
32	107 Construction Work in Progress.....	658,145	5,070,117		4,494,357		1,233,906
33	108 Accumulated Depreciation						
	TOTAL UTILITY GAS PLANT	32,557,289	9,468,001	1,968,422	4,624,020	0	35,432,848



## MISCELLANEOUS NON-OPERATING INCOME (Account 421)

Line No.	Item (a)	Amount (b)
1	Miscellaneous Income	540,136
2	O&M Contracts	504,897
3	Gain on Plant Retirements	0
4		
5		
6	TOTAL	1,045,033

## OTHER INCOME DEDUCTIONS (Account 426)

Line No.	Item (a)	Amount (b)
7	Loss on Plant Retirements	373,305
8	Boiler Demolition Expense	363,268
9	Other Deductions	0
10		
11	Const Services Monthly Fee	708,185
12		
13		
14	TOTAL	1,444,758

## 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	479,680
24	Pilot - Others	794,657
25		
26		0
27		
28		
29		
30	TOTAL	1,274,337

## APPROPRIATIONS OF SURPLUS (Account 436)

Line No.	Item (a)	Amount (b)
31	Bond Principal Payments	0
32	Note Payable to City	0
33	Note Payable to Bank	0
34		
35		
36		
37		
38	TOTAL	0

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	67,496	896,007	13.2750
2					
3					
4		TOTALS	67,496	896,007	13.2750
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)	14,383,002	2,179,515	0.1515
6					
7					
8		TOTALS	14,383,002	2,179,515	0.1515
9					
10		Street Lighting*	1,767,954	381,288	0.2157
11		TOTALS	1,767,954	381,288	0.2157
12					
13		*Includes material costs for new & replacement lighting over multiple year repayments			
14					
15					
16					
17					
18					
19		TOTALS	16,150,956	2,560,803	0.1586

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		See pages 54 & 55			
21					
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		See pages 52 & 53			
31					
32					
33					
34					
35					
36					
37		TOTALS			



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)*	106,147,930	16,785,416	0.1581	14,981	15,016
2	440-01	Residential - Off Peak					
3	440-02	Residential - General Service (EK)					
4	442-00	Commercial (EC)**	205,108,487	29,221,448	0.1425	2,293	2,299
5	442-02	Commercial D					
6	442-03	Area Lighting (CL)	667,359	313,530	0.4698	467	467
7	442-01	Industrial (LI, HW, SI)	46,006,584	5,169,647	0.1124	21	21
8	444-00	Municipal Lighting (MC)	14,383,002	2,179,515	0.1515	138	138
9	444-01	Street Lighting (SL)***	1,767,954	381,288	0.2157	1	1
10	484-00	Interdepartmental Sales		299,596			
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30		*Total number of Residential customers, when including multiple units per meter,					
31		is 18,134 for year end.					
32							
33		**27,204,190 kwh of 205,108,487 kwh is Residential Multidwelling. Total Residential kwh sales is 133,352,120 kwh					
34							
35							
36							
37		***Includes material costs for new & replacement lighting over multiple year repayments					
38							
39							
40							
41	TOTAL SALES TO ULTIMATE CONSUMERS						
42	( Page 37 Line 11 )		374,081,316	54,350,439	0.1453	17,901	17,942

## 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.....	56,157	3,831
5	501 Fuel.....		
6	502 Steam expense.....	0	0
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	56,157	3,831
13	Maintenance:		
14	510 Maintenance supervision and engineering.....	3,617	1,116
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.....	0	0
20	Total Maintenance	3,617	1,116
21	TOTAL STEAM POWER GENERATION	59,774	4,947
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.....	1,077,855	27,712
45	536 Water for power/Fuel.....	416,334	(13,935)
46	537 Hydraulic expenses.....	609,805	148,759
47	538 Electric expenses.....	0	
48	539 Miscellaneous hydraulic power generation expenses.....	508,250	61,146
49	540 Rents.....	0	0
50	Total Operation	2,612,243	223,682

## 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.....	528,298	26,666
4	542 Maintenance of Structures.....	33,357	(6,830)
5	543 Maintenance of Reservoirs, Dams and Waterways.....	961,114	(1,279,160)
6	544 Maintenance of Electric Plant.....		(112)
7	545 Maintenance of Miscellaneous Hydraulic Plant.....	2,063,405	367,674
8	Total Maintenance	3,586,174	(891,762)
9	TOTAL HYDRAULIC POWER GENERATION	6,198,417	(668,080)
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.....	11,466,412	(4,369,977)
27	556 System Control and Load Dispatching.....		
28	557 Other Expenses.....	1,107,260	(90,941)
29	TOTAL OTHER POWER SUPPLY EXPENSES	12,573,673	(4,460,918)
30	TOTAL POWER PRODUCTION EXPENSES	18,831,864	(5,124,051)
31	TRANSMISSION EXPENSES		
32	Operation:		
33	560 Operation Supervision and Engineering.....	718,232	(15,098)
34	561 Load Dispatching.....		
35	562 Station Expenses.....	128,776	(10,960)
36	563 Overhead Line Expenses.....		
37	564 Underground Line Expenses.....		
38	565 Transmission of Electricity by Others.....	3,285,673	(61,332)
39	566 Miscellaneous Transmission Expenses.....	49,745	26,387
40	567 Rents.....		
41	Total Operation	4,182,426	(61,002)
42	Maintenance:		
43	568 Maintenance Supervision and Engineering.....	74,890	41,609
44	569 Maintenance of Structures.....		
45	570 Maintenance of Station Equipment.....	365,022	(150,795)
46	571 Maintenance of Overhead Lines.....	431,683	291,151
47	572 Maintenance of Underground Lines.....		
48	573 Maintenance of Miscellaneous Transmission Plant.....		
49	Total Maintenance	871,595	181,965
50	TOTAL TRANSMISSION EXPENSES	5,054,020	120,963

## ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)	Preceding Year 12/31/22
1	DISTRIBUTION EXPENSES			
2	Operation:			
3	580 Operation Supervision and Engineering.....	931,849	(7,624)	939,473
4	581 Load Dispatching.....			
5	582 Station Expenses.....	85,282	(68,365)	153,647
6	583 Overhead Line Expenses.....	0	0	0
7	584 Underground Line Expenses.....	0		0
8	585 Street Lighting and Signal System Expenses (852 Communications).....	81,403	8,090	73,314
9	586 Meter Expenses.....	246,293	49,964	196,330
10	587 Customer Installations Expenses.....	344,752	(38,330)	383,082
11	588 Miscellaneous Distribution Expenses (163's incl).....	590,680	(41,416)	632,096
12	589 Rents.....			
13	Telecom (163 & 852 incl).....	1,871,416	120,594	1,750,822
14	Total Operation	4,151,676	22,913	4,128,763
15	Maintenance:			
16	590 Maintenance supervision and engineering.....	282,391	39,002	243,388
17	591 Maintenance of Structures.....			
18	592 Maintenance of Station Equipment.....	42,571	(45,635)	88,206
19	593 Maintenance of Overhead Lines.....	3,621,635	8,890	3,612,745
20	594 Maintenance of Underground Lines.....	982,214	(319,636)	1,301,851
21	595 Maintenance of Line Transformers.....	7,537	6,696	841
22	596 Maintenance of Street Lighting and Signal Systems.....	93,345	(18,005)	111,351
23	597 Maintenance of Meters.....	8,931	(4,133)	13,064
24	598 Maintenance of Miscellaneous Distribution Plant.....	13,436	4,696	8,740
25	Telecom.....	140,641	67,384	73,257
26	Total Maintenance	5,192,702	(260,741)	5,453,443
27	TOTAL DISTRIBUTION EXPENSES	9,344,378	(237,828)	9,582,206
28	CUSTOMER ACCOUNTS EXPENSES			
29	Operation:			
30	901 Supervision.....			
31	902 Meter Reading Expenses.....	64,271	(46,192)	110,463
32	903 Customer Records and Collection Expenses.....	558,757	66,579	492,178
33	904 Uncollectable Accounts.....	171,906	(11,030)	182,937
34	Telecom.....	(562)	(3,386)	2,824
35	TOTAL CUSTOMER ACCOUNTS EXPENSES	794,372	5,970	788,402
36	SALES EXPENSES			
37	Operation:			
38	911 Supervision.....			
39	912 Demonstrating and Selling Expenses.....	143,041	42,827	100,214
40	913 Advertising Expenses.....	42,420	1,140	41,280
41	Telecom.....	180,260	(3,620)	183,880
42	TOTAL SALES EXPENSES	365,721	40,347	325,375
43	ADMINISTRATIVE AND GENERAL EXPENSES			
44	Operation:			
45	920 Administrative and General Salaries.....	1,360,098	88,785	1,271,313
46	921 Office Supplies and Expenses.....	907,434	143,886	763,548
47	922 Administrative Expenses Transferred - Cr.....			
48	923 Outside Services Employed.....	418,981	98,760	320,222
49	924 Property Insurance.....	721,842	71,284	650,558
50	925 Injuries and Damages.....	30,881	1,599	29,282
51	926 Employees Pensions and Benefits.....	3,634,559	1,795,569	1,838,991
52	928 Regulatory Commission Expenses.....			
53	929 Duplicate Charges - Cr.....	0		0
54	930 Miscellaneous General Expenses.....	964,009	88,031	875,978
55	931 Rents.....			
56	Telecom.....	511,771	222,324	289,447
57	Total Operation	8,549,575	2,510,238	6,039,337

Line 51 consists of employee benefits related to the pension plan, health insurance, life insurance, other post employment benefits (OPEB) and other miscellaneous benefits such as educational assistance. The portion of line 51 that pertains to OPEB is \$132,007

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.....	523,710	75,561
4	933 Transportation expense.....		
5	Telecom.....	20,285	(18,147)
6	Total Maintenance	543,995	57,413
7	TOTAL ADMINISTRATIVE AND GENERAL EXPENSES	9,093,570	2,567,651
8	TOTAL ELECTRIC OPERATION AND MAINTENANCE EXPENSES	43,483,925	(2,626,948)

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.....	56,157	3,617	59,774
12	Nuclear Power.....	0	0	0
13	Hydraulic Power.....	2,612,243	3,586,174	6,198,417
14	Other Power.....	0	0	0
15	Other Power Supply Expenses.....	12,573,673	0	12,573,673
16	Total Power Production Expenses	15,242,072	3,589,792	18,831,864
17	Transmission Expenses.....	4,182,426	871,595	5,054,020
18	Distribution Expenses.....	4,151,676	5,192,702	9,344,378
19	Customer Accounts Expenses.....	794,372	0	794,372
20	Sales Expenses.....	365,721	0	365,721
21	Administrative and General Expenses.....	8,549,575	543,995	9,093,570
22				
23	TOTAL ELECTRIC OPERATION AND MAINTENANCE EXPENSES	33,285,842	10,198,083	43,483,925

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)	80.63%
25	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts (Telecom portion of wages is \$1,129,418.58)	12,861,160
26	Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees)	91.0



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.....	12,006,133	(232,342)	708,500.0	(71,674.0)	10,228	(48)
3	481 Commercial and Industrial Sales:						
4	Small (or Commercial) see instr. 5...	7,860,814	(356,903)	559,769.0	(64,136.0)	1,264	(9)
5	Large (or Industrial) see instr. 5.....	4,729,992	(1,269,354)	607,317.0	10,755.0	21	0
6	482 Municipal Sales (pg 22).....	896,007	(39,528)	67,496.0	(7,511.0)	41	(2)
7	483 Other Sales (481) Interruptible.....	920,233	(80,754)	75,968.0	(8,138.0)	21	1
8	485 Miscellaneous Gas Sales (484).....	73,654	452	13,142.2	(2,200.6)	20	0
9							
10							
11	Total Sales to Ultimate Consumers	26,486,833	(1,978,429)	2,032,192.2	(142,904.6)	11,595	(58)
12	483 Sales for Resale.....	0	0		0.0	N/A	N/A
13	TOTAL SALES OF GAS*	26,486,833	(1,978,429)	2,032,192.2	(142,904.6)	11,595	(58)
14	OTHER OPERATING REVENUES						
15	487 Forfeited Discounts.....						
16	488 Miscellaneous Service Revenues.....	36,724	(2,330)				
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.....	3,402	868				
21	494 Interdepartmental Rents.....						
22	495 Other Gas Revenue.....	578,495	(89,515)				
23							
24							
25	Total Other Operating Revenues	618,621	(90,977)				
26	TOTAL GAS						
27	OPERATING REVENUES	27,105,454	8,243,454				
			Purchased Price Adjustment Clauses	Fuel Clauses			
	*Includes revenue from application of.....			12,581,982			
	Total MCF to Which Applied			1,956,224.2			

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	708,500	12,006,133	16.9458	10,224	10,207
2	481-01	Commercial	559,769	7,860,814	14.0430	1,255	1,262
3	481-03	Industrial	607,317	4,729,992	7.7883	20	20
4	481-04	Interruptible	75,968	920,233	12.1134	14	26
5	482-01	Municipal	67,496	896,007	13.2750	41	39
6	484-00	Interdepartmental Sales	13,142	73,654	5.6044	20	20
7							
8							
9							
10							
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38							
39							
40							
41	TOTAL SALES TO ULTIMATE CONSUMERS						
42	( Page 43 Line 11 )		2,032,192	26,486,833	13.0336	11,574	11,574

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.....	11,532,760	(2,861,475)
4	805 Other gas purchases.....	338,823	(470,341)
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.....	(6,477)	7,567
10	813 Other gas supply expenses.....	211,111	4,517
11	TOTAL GAS SUPPLY EXPENSES	12,076,216	(3,319,732)
12	TOTAL PRODUCTION EXPENSES	12,076,216	(3,319,732)
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.....	0	0
24	Total Maintenance	0	0
25	TOTAL STORAGE EXPENSES	0	0
26	TRANSMISSION AND DISTRIBUTION EXPENSES		
27	Operation:		
28	850 Operation supervision and engineering.....	556,265	79,176
29	851 System control and load dispatching.....	237,386	(1,232)
30	852 Communication system expenses.....	211,631	12,119
31	853 Compressor station labor and expenses.....	371,904	(100,382)
32	855 Fuel and power for compressor station.....		
33	857 Measuring and regulating station expenses.....	96,603	(16,745)
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).....	290,514	34,661
37	879 Customer installation expenses.....	662,451	46,183
38	880 Other expenses (10-814-00 & 163 & 888-02).....	251,003	30,068
39	881 Rents.....		
40	Total Operation	2,677,757	83,847
41	Maintenance:		
42	885 Maintenance supervision and engineering.....		
43	886 Maintenance of structures and improvements.....		
44	887 Maintenance of mains.....	1,423,623	452,989
45	888 Maintenance of compressor station equipment.....	326,082	79,621
46	889 Maintenance of measuring and regulating station equipment.....		
47	892 Maintenance of services.....	460,983	(147,583)
48	893 Maintenance of meters and house regulators.....	313,731	25,943
49	894 Maintenance of other equipment (10-853-01,03).....	183,341	37,487
50	Total Maintenance	2,707,759	448,457
51	TOTAL TRANSMISSION AND DISTRIBUTION EXPENSES	5,385,516	532,304

GAS OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	<b>CUSTOMER ACCOUNTS EXPENSES</b>		
2	Operation:		
3	901 Supervision.....		
4	902 Meter reading expenses.....	33,466	(20,410)
5	903 Customer records and collection expenses.....	277,869	21,031
6	904 Uncollectible accounts.....	99,305	9,692
7	905 Miscellaneous customer accounts expenses.....		
8	<b>TOTAL CUSTOMER ACCOUNTS EXPENSES</b>	<b>410,640</b>	<b>10,314</b>
9	<b>SALES EXPENSES</b>		
10	Operation:		
11	911 Supervision.....		
12	912 Demonstrating and selling expenses.....	77,022	23,060
13	913 Advertising expenses.....	3,518	(10,161)
14	916 Miscellaneous sales expenses.....		
15	<b>TOTAL SALES EXPENSES</b>	<b>80,540</b>	<b>12,900</b>
16	<b>ADMINISTRATIVE AND GENERAL EXPENSES</b>		
17	Operation:		
18	920 Administrative and general salaries.....	830,971	63,147
19	921 Office supplies and expenses.....	361,785	70,256
20	922 Administrative expenses transferred - Cr.....		
21	923 Outside services employed.....	211,651	43,503
22	924 Property insurance.....	162,141	20,841
23	925 Injuries and damages.....	0	7,239
24	926 Employees pension and benefits.....	1,810,663	846,848
25	928 Regulatory commission expenses.....		
26	929 Duplicate charges - Cr.....		
27	930 Miscellaneous general expenses.....	400,541	23,936
28	931 Rents.....		
29	<b>Total Operation</b>	<b>3,777,752</b>	<b>1,075,770</b>
30	Maintenance:		
31	932 Maintenance of general plant.....	192,461	(430)
32	<b>TOTAL ADMINISTRATIVE AND GENERAL EXPENSES</b>	<b>3,970,213</b>	<b>1,075,339</b>
33	<b>TOTAL GAS OPERATION AND MAINTENANCE EXPENSES</b>	<b>21,923,126</b>	<b>(1,688,875)</b>

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.....	12,076,216	0	12,076,216
37	<b>Total Production Expenses</b>	<b>12,076,216</b>	<b>0</b>	<b>12,076,216</b>
38	Local storage expenses.....	0	0	0
39	Transmission and distribution expenses.....	2,677,757	2,707,759	5,385,516
40	Customer accounts expenses.....	410,640	0	410,640
41	Sales Expenses.....	80,540	0	80,540
42	Administrative and General Expenses.....	3,777,752	192,461	3,970,213
43	<b>TOTAL GAS OPERATION AND MAINTENANCE EXPENSES</b>	<b>19,022,906</b>	<b>2,900,220</b>	<b>21,923,126</b>

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)			<u>88.14%</u>
45	Total salaries and wages of gas department for year, including amounts charged to operating expenses, construction and other accounts			<u>5,603,653</u>
46	Total number of employees of gas department at end of year including administrative, operating, maintenance, construction and other employees (including part time employees)			<u>44.0</u>

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				NONE		
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	RWE Energy Delivered Direct	TGP Zones 0,1,4,6	1,887,627	\$ 4.24	\$ 8,003,864
23	RWE Storage Withdrawals		129,599	\$ 1.83	\$ 237,424
24	Pipeline Variable Char. - Tennessee Gas	Pipeline			\$ 10,582
25					
26	LNG Supplier Var. Charges - all suppliers	Holyoke, MA	31,952	\$ 10.60	\$ 338,823
27					\$ -
28					\$ -
29					
30	Other Supplier and Transportation Charge				\$ 50,000
31	Westfield Gas & Electric				
32	LNG Supplier Fix. Charges - all suppliers: Energir / Gaz Metro	Holyoke, MA		\$ 31.36	\$ 1,002,117
33					
34	Pipeline Fixed Charges - Tennessee Gas	Pipeline			\$ 2,228,773
35					
36		TOTALS	2,049,178	5.7933	11,871,583



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			N/A		
14					
15					
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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.....	0	96,353		96,353
4	Contract Work.....				
5	Commissions.....				
6	Other (List according to major classes).....				
7					
8					
9					
10	Total Revenues	0	96,353	0	96,353
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to Major				
15	classes of cost).....	5,162	97,796		102,958
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	5,162	97,796	0	102,958
48	Net Profit (or Loss)	(5,162)	(1,443)	0	(6,605)

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. and place an "x" in column (c) if sale involves export across a state line.
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,
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								
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10								
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12								
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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
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								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)

- 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. 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 (l) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).
- 5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billing, this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in column (g) 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	15,046,085	126,628	74,193	194,111	394,932	2.6248	1
60 Min.	115kv	149,950	114,617	41,373	7,820	163,810	109.2431	2
60 Min.	115kv	29,519,580	773,730	134,141	2,536	910,407	3.0841	3
60 Min.	115kv	26,280,810	929,348	159,481	47,282	1,136,111	4.3230	4
60 Min.	115kv	9,416,000		399,452		399,452	4.2423	5
60 Min.	115kv	40,640,000		2,016,557		2,016,557	4.9620	6
60 Min.	115kv	35,040,000		117,206		117,206	0.3345	7
60 Min.	115kv		(70,371)		7,632	(62,739)		8
60 Min.	115kv				2,947,205	2,947,205		9
60 Min.	115kv		(142,874)		74,347	(68,527)		10
60 Min.	115kv				4,740	4,740		11
60 Min.	115kv	10,531,631	(369,313)	299,596		(69,717)	(0.6620)	12
60 Min.	115kv	13,171,580		703,983		703,983	5.3447	13
60 Min.	115kv	23,652,000		910,602		910,602	3.8500	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
	TOTALS	203,447,636	1,361,765	4,856,584	3,285,673	9,504,022	4.6715	37

## 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	372,346,019	483,923,545	(111,577,526)	(4,004,755)
2	ICAP Sales		Holyoke, MA	115kv				3,716,347
3	Aubin Prop (c/o Open Square)					1,869,980	(1,869,980)	59,030
4	Solar Constellation					5,002,000	(5,002,000)	328,150
5	Solar Citizens					976,320	(976,320)	59,320
6	Solar RICAR					1,102,995	(1,102,995)	62,085
7	Solar Mt. Tom					5,718,226	(5,718,226)	274,645
8	Solar ReneSola Dinn					737,134	(737,134)	43,270
9	Solar ReneSola Kelly					720,914	(720,914)	42,318
10	Solar AEGIS					1,117,153	(1,117,153)	58,204
11	Solar Hadley Mills					399,367	(399,367)	23,323
12	Solar Gary Rome					936,641	(936,641)	45,895
13	Solar Conklin					876,144	(876,144)	56,327
14	Solar Riverside A-B					181,347	(181,347)	10,246
15	Solar Walnut Street					158,587	(158,587)	8,770
16	Solar Jackson					133,932	(133,932)	7,406
17	Solar Boys & Girls Club					204,179	(204,179)	11,291
18	Solar Kelly Way 2					702,601	(702,601)	32,811
19	Solar YMCA					162,666	(162,666)	8,995
20	Solar Resident & Commercial					109,859	(109,859)	9,251
21	Hydro					7,155,161	(7,155,161)	0
22	Nat Gas Generator (Cabot St)					34,790	(34,790)	2,498
23	Diesel Generators					247,327	(247,327)	276,668
24	Mt. Tom Battery					(124,361)	124,361	351,810
25	Citizens Battery					(53,992)	53,992	(4,589)
26	ESG-H1					12,293,971	(12,293,971)	366,682
27	SWSC (c/o Cobble Mt)*		Westfield, MA	69kv		0	0	1,226,154
28	*This Purchased Power generation's costs are netted in a Miscellaneous Income Account 0040-CM-421-421-00-4							
29				TOTALS	372,346,019	524,586,486	(152,240,467)	3,072,152

## B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)	Amount (k)
30	NEPEX	Nepool Expenses	669,669
31	NEPEX	NEPEX Interchange	(958,077)
32	Aubin Prop (c/o Open Square)	Non Utility Generator	59,030
33	Solar Constellation	Non Utility Generator	328,150
34	Solar Citizens	Non Utility Generator	59,320
35	Solar RICAR	Non Utility Generator	62,085
36	Solar Mt. Tom	Non Utility Generator	274,645
37	Solar ReneSola Dinn	Non Utility Generator	43,270
38	Solar ReneSola Kelly	Non Utility Generator	42,318
39	Solar AEGIS	Non Utility Generator	58,204
40	Solar Hadley Mills	Non Utility Generator	23,323
41	Solar Gary Rome	Non Utility Generator	45,895
42	Solar Conklin	Non Utility Generator	56,327
43	Solar Riverside A-B	Non Utility Generator	10,246
44	Solar Walnut Street	Non Utility Generator	8,770
45	Solar Jackson	Non Utility Generator	7,406
46	Solar Boys & Girls Club	Non Utility Generator	11,291
47	Solar Kelly Way 2	Non Utility Generator	32,811
48	Solar YMCA	Non Utility Generator	8,995
49	Solar Resident & Commercial	Non Utility Generator	9,251
50	Hydro	Load Reducer	0
51	Nat Gas Generator (Cabot St)	Load Reducer	2,498
52	Diesel Generators	Load Reducer	276,668
53	Mt. Tom Battery	Non Utility Generator	351,810
54	Citizens Battery	Non Utility Generator	(4,589)
55	ESG-H1	Load Reducer	366,682
56	SWSC (c/o Cobble Mt)*	Non Utility Market Generator	1,226,154
57		TOTALS	3,072,152

**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	<b>SOURCES OF ENERGY</b>	
2	Generation (excluding station use):	
3	Steam.....	0
4	Nuclear.....	
5	Hydro.....	296,644,159
6	Other.....	
7	Total Generation	296,644,159
8	Purchases.....	203,447,636
9	In (gross).....	372,346,019
10	Out (gross).....	524,586,486
11	Net (Kwh).....	(152,240,467)
12	Received.....	
13	Delivered.....	
14	Net (kwh).....	
15	TOTAL	347,851,328
16	<b>DISPOSITION OF ENERGY</b>	
17	Sales to ultimate consumers (including interdepartmental sales).....	374,081,316
18	Sales for resale.....	0
19	Energy furnished without charge.....	696,980
20	Energy used by the company (excluding station use).....	2,297,135
21	Electric department only.....	(40,662,941)
22	Energy losses:	
23	Transmission and conversion losses.....	
24	Distribution losses.....	11,438,837
25	Unaccounted for losses.....	
26	Total Energy Losses	11,438,838
27	Energy losses as percent of total on line 15.....	3.29%
28	TOTAL	347,851,328

**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	60,665	Tues	11	20:00	60 Min	30,988,475	
30	February	56,975	Mon	1	9:00	60 Min	28,208,200	
31	March	56,881	Tues	9	17:00	60 Min	28,428,090	
32	April	48,060	Fri	12	11:00	60 Min	25,651,630	
33	May	62,014	Wed	31	17:00	60 Min	25,712,812	
34	June	56,608	Tues	27	13:00	60 Min	28,724,650	
35	July	69,784	Tues	21	14:00	60 Min	35,519,040	
36	August	71,609	Fri	8	16:00	60 Min	31,355,820	
37	September	54,911	Wed	4	17:00	60 Min	28,955,341	
38	October	49,164	Tues	26	15:00	60 Min	26,085,000	
39	November	52,292	Tues	16	11:00	60 Min	27,936,570	
40	December	54,105	Thur	12	11:00	60 Min	30,285,700	
41	TOTAL							347,851,328

## 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 term 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 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).....	7,500		33,400
6	Net peak demand on plant-kilowatts (60 min.).....	7,500		33,400
7	Plant hours connected to load.....	0		8,562
8	Net continuous plant capability, kilowatts:			
9	(a) When not limited by condenser water.....	7,500		
10	(b) When limited by condenser water.....	0		
11	Average number of employees.....	0		27
12	Net generation, exclusive of station use.....			218,185,690
13	Cost of plant (omit cents):			
14	Land and land rights.....	0		604,724
15	Structures and improvements.....	1,052,188		17,857,341
16	Reservoirs, dams, and waterways.....			15,582,201
17	Equipment costs.....	33,442		26,598,538
18	Roads, railroads, and bridges.....	0		36,375
19	Total Cost	1,085,630		60,679,178
20	Cost per kw of installed capacity	145		1,817
21	Production expenses:			
22	Operation supervision and engineering.....	56,157		743,720
23	Station labor.....			
24	Fuel.....	0		1,058,728
25	Supplies and expenses, including water.....	0		
26	Maintenance.....	3,617		6,198,417
27	Rents.....			0
28	Steam from other sources.....			
29	Steam transferred -- Credit.....	0		
30	Total Production Expenses	59,774		8,000,865
31	Expenses per net Kwh (5 places)	N/A		0.03667
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 (l)	Plant (j)	Line No.
						1
						2
						3
						4
						5
			N/A			6
						7
						8
						9
						10
						11
						12
						13
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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							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
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26							
27							
28							
29							

N/A

STEAM GENERATING STATIONS -- Continued

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

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

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

Turbine-Generators\*

Year Installed (h)	Type+ (l)	Steam Pressure at Throttle p.s.i.g. (j)	R.P.M. (k)	Name Plate Rating in Kilowatts		Hydrogen Pressure++		Power Factor (p)	Voltage K.v.+++ (q)	Station Capacity Maximum Name Plate Rating++++ (r)	Line No.
				At Minimum Hydrogen Pressure (l)	At Maximum Hydrogen Pressure (m)	Min. (n)	Max. (o)				
											1
											2
											3
											4
											5
											6
											7
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											28
											29
											TOTALS

N/A

## 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	20 Ft.
2	Unit #1	Cabot Street	via Canal System				
3	Unit #2						
4	Unit #3						
5	Unit #4						
6							
7	#2 Holyoke/Cabot	Sargeant Street	Connecticut River	Unattended	Vertical Kaplan	1938	20 Ft.
8			via Canal System				
9							
10	Hadley Falls	Gatehouse Road	Connecticut River	Attended	Vertical Kaplan	1954	50 Ft.
11	Unit #1						
12	Unit #2				Fixed Propeller	1984	50 Ft.
13							
14							
15							
16							
17							
18	Boatlock	Gatehouse Road	Connecticut River	Unattended	Vertical Kaplan	2010	20 Ft.
19	Unit #1		via Canal System				
20	Unit #2						
21	Unit #3				Vertical Francis	1924	20 Ft.
22					Vertical Francis	1924	20 Ft.
23	Skinner	Appleton Street	Connecticut River	Unattended	Vertical Francis	1924	20 Ft.
24			via Canal System				
25							
26	Chemical	South Water Street	Connecticut River	Unattended	Vertical Kaplan	1935	22 Ft.
27	Unit #1		via Canal System				
28	Unit #2				Vertical Kaplan	1935	22 Ft.
29							
30	Riverside 4-7	Water Street	Connecticut River	Unattended	Horizontal Francis	1921	33 Ft.
31	Unit #4		via Canal System				
32	Unit #5						
33	Unit #7						
34					Vertical Francis	1921	33 Ft.
35	Riverside 8	Water Street	Connecticut River	Unattended	Fixed Propeller	1931	33 Ft.
36			via Canal System				
37							
38							

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



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							
5							
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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 place ratings) (q)	Line No.
Design Head (h)	R.P.M. (l)	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)		
27'	277	1060 HP	1994	4,800	3	60 cy	790	1	790	1
										2
										3
										4
										5
										6
										7
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										29
										30
										31
										32
										33
										34
						TOTALS	49,409	18	49,409	35

**COMBUSTION ENGINE AND OTHER GENERATING STATIONS**  
(except nuclear stations)

- |   |   |
|---|---|
| <p>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.</p> <p>2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.</p> <p>3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such</p> | <p>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-</p> |
|---|---|

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							
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35							
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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)		
				N/A					1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
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									13
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									33
									34
									35
									36
					TOTALS				37

## 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,
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	1,856	1,856	6,053,770	2,329,271	1,255	135,689		202,182	Hydro	5.5812
2	Beebe Holbrook							19,500		19,370		
3	Chemical	1935	1,600	1,600	7,369,880	1,466,578	917	56,280		50,671	Hydro	
4	Skinner	1924	300	300	1,371,480	690,154	2,301	21,446		22,019	Hydro	3.1692
5	Boatlock	1924	3,313	3,313	21,257,640	5,952,580	1,797	204,230		235,128	Hydro	2.0668
6	Riverside 4-7	1921	3,040	3,270	13,335,870	7,203,485	2,370	215,787		223,849	Hydro	3.2966
7	Riverside 8	1931	4,000	4,575	27,054,320	7,203,485	1,801	215,787		223,849	Hydro	1.6250
8	Valley Hydro	1994	790	790	2,015,509	1,207,770	1,529	7,383		3,003	Hydro	0.5153
9												
10												
11												
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35												
36												
37												
38		TOTALS			78,458,469	26,053,322		876,101		980,070		2.3658

\* These facilities are comprised of more than one plant, however combined herewith for ease of reporting.  
Holyoke/Cabot 1-4 includes Holyoke 1 and Holyoke 2 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	Eversource Fairmont	HGE	115 KV	Steel Pole	0.03 miles		1	795 KCM
2	North Canal	North Canal						ACSR
3	TAP	Substation						
4								
5	Eversource	HGE	115 KV	Wood and Steel Pole	5.23 miles		1	795 KCM
6	Southampton	Ingleside						ACSR
7	TAP	Substation						
8								
9	HGE	HGE	115 KV	Wood and Steel Pole	3.14 miles		1	795 KCM
10	Ingleside	Holyoke						ACSR
11	Substation	Substation						
12								
13	HGE	HGE	115 KV	Wood and Steel Pole	0.85 miles		1	795 KCM
14	North Canal	Holyoke						ACSR
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 Trans-formers in Service (g)	Number of Spare Trans-formers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number Of Units (j)	Total Capacity (k)
1	Holyoke Substation	Transmission	115,000				2				
2	102 Cabot Street (rear)	Distribution		13,800		120,000	@	0			
3	Holyoke, MA 01040				-		36/48/60 MVA				
4											
5	Ingleside Substation	Transmission	115,000				1 @ 18/24/30 MVA				
6	320 Whitney Avenue	Distribution		13,800			2 @ 16.8/22.4/28 MVA				
7	Holyoke, MA 01040	Unattended			-	86,000		0			
8											
9	North Canal Substation	Transmission	115,000				2 @				
10	50 Water Street	Distribution		34,500			36/48/60 MVA				
11	Holyoke, MA 01040	Unattended		13,800		180,000	2 @	0			
12							18/24/30 MVA				
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29					TOTALS	386,000		18	0		0

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.....	158.639		158.639
2	Added During Year.....	10.405		10.405
3	Retired During Year.....	(18.069)		(18.069)
4	Miles - End of Year.....	150.975	0.000	150.975
5	Distribution System Characteristics - A.C. or D.C., phase, cycles and operating voltages for Light and Power.			
6	A.C. 3 PH 60 HZ	34.5Y/19.9 KV		
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.....	11,880	19,270	2,456	309,226
17	Additions during year:				
18	Purchased .....		2,612	92	4,515
19	Installed.....	79			
20	Associated with utility plant acquired.....				
21	Total Additions	79	2,612	92	4,515
22	Reductions during year:				
23	Retirements.....	3,626	3,626	65	9,013
24	Associated with utility plant sold.....				
25	Total Reductions	3,626	3,626	65	9,013
26	Number at End of Year	8,333	18,256	2,483	304,729
27	In stock.....		481		
28	Locked meters on customer's premises.....				
29	Inactive meters on system.....		277		
30	In customer's use.....		17,474		
31	In company's use .....		45		
32	Number at End of Year		18,277	2,483	304,729

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	48.941				
2	Steel Conduit (encased)	1.437				
3	Non-Metallic Duct	109.921				
4	Non-Metallic Duct (encased)	89.833				
5						
6						
7						
8						
9						
10	Total - Beginning		193.699	34.5KV/19.9KV 13.8KV/7.9KV 4.8KV/600V 480V/277 240/208/120		
11						
12						
13						
14						
15						
16	Net Primary Installed		1.352	13.8/7.9/4.8KV		
17						
18	Net Secondary Installed		0.567	600/480/277 240/208/120		
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35	TOTALS	250.132	195.618			

\*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	0.0	0.0	0.0	0.0	0.0	0.0
3	LNG Gas	31,952.4	1,551.1	15,594.4	1,965.9	1,913.4	1,374.4
4	Gas						
5	Gas						
6	TOTAL	31,952.4	1,551.1	15,594.4	1,965.9	1,913.4	1,374.4
7							
8	<u>Gas Purchased</u>						
9	Natural G-6	1,892,626.8	288,863.2	244,361.9	230,012.6	134,189.3	106,311.4
10	Other - Storage	129,599.0	27,981.0	44,996.0	41,495.0	13,914.0	0.0
11	TOTAL	2,022,225.8	316,844.2	289,357.9	271,507.6	148,103.3	106,311.4
12	TOTAL MADE AND						
13	PURCHASED	2,054,178.1	318,395.3	304,952.3	273,473.5	150,016.7	107,685.8
14	Net change in Holder Gas	0.0	0.0	0.0	0.0	0.0	0.0
15	TOTAL SEND OUT	2,054,178.1	318,395.3	304,952.3	273,473.5	150,016.7	107,685.8
16							
17							
18							
19	Gas Sold (Firm)	1,934,969.5	307,797.1	303,425.4	267,780.5	173,268.3	116,205.6
	Gas Sold (Interr.)	84,081.5	11,210.8	9,056.9	10,721.9	5,054.4	3,209.7
	Electric Station Use	0.0	0.0	0.0	0.0	0.0	0.0
20	Gas Used by Company	13,142.2	3,005.6	2,587.2	1,910.3	819.1	255.3
	Sale for Resale	0.0	0.0	0.0	0.0	0.0	0.0
21	Gas Accounted For	2,032,193.2	322,013.5	315,069.5	280,412.7	179,141.8	119,670.6
22	Gas Unaccounted For	21,985.0	(3,618.2)	(10,117.2)	(6,939.2)	(29,125.1)	(11,984.8)
23	% Unaccounted For (0.00%)	1.07	(1.14)	(3.32)	(2.54)	(19.41)	(11.13)
24							
25							
26							
27	<u>Sendout in 24 Hours in Mcf</u>						
28	Maximum - Mcf	17,755.0	11,624	17,755	10,860	7,998	5,286
29	Maximum Date	1/31/2023	1/31/2023	2/3/2023	3/7/2023	4/2/2023	5/2/2023
30	Minimum - Mcf	1,382.0	6,970	6,482	6,098	2,473	2,052
31	Minimum Date	8/12/2023	1/1/2023	2/16/2023	3/22/2023	4/15/2023	5/28/2023
32							
33							
34							
35	S.O. BTU	1,032	1,033	1,034	1,033	1,031	1,030
	S.O. Sp. Gr.	0.59	0.59	0.59	0.59	0.59	0.59
	Annual weighted average BTU content of gas sold: 1,032 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			
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11			
12			
13			
14			
15			
16			
17			
18			
19			
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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	0	0	0
3	1 1/2"	0	0	0	0	0
4	2"	0	0	0	0	0
5	2 1/2"	0	0	0	0	0
6	3"	6,977	0	0	1,462	5,515
7	4"	72,233	0	0	4,994	67,239
8	6"	80,725	0	0	2,755	77,970
9	8"	42,724	0	0	117	42,607
10	12"	27,789	0	0	12	27,777
11	16"	9,721	0	0	0	9,721
12						
13	Sub-Total	240,169	0	0	9,340	230,829
14	<u>Welded Steel</u>					
15	2"	109,118	0	0	525	108,593
16	3"	353	0	0	0	353
17	4"	78,692	0	0	125	78,567
18	6"	133,517	0	0	909	132,608
19	8"	105,574	0	0	15	105,559
20	10"	12,217	0	0	0	12,217
21	12"	58,681	55	0	0	58,736
22	14"	3,278	0	0	0	3,278
23	16"	1,246	0	0	0	1,246
24						
25	Sub-Total	502,676	55	0	1,574	501,157
26	<u>Wrought Iron</u>					
27	1 1/4"	0				0
28	1 1/2"	0				0
29	2"	0				0
30	2 1/2"	0				0
31	3"	0				0
32	4"	0				0
33						
34	Sub-Total	0	0	0	0	0
35	<u>Plastic Main</u>					
36	2"	80,233	575	0	0	80,808
37	4"	67,950	1,413	0	403	68,960
38	6"	37,757	1,216	0	37	38,936
39	8"	47,534	3,564	0	0	51,098
40						
41	Sub-Total	233,474	6,768	0	440	239,802
42						
43	TOTALS	976,319	6,823	0	11,354	971,788

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.

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.....	8,255	3,468	13,495
2	Additions during year:			
3	Purchases.....	0	100	699
4	Installed.....	2	122	0
5	Associated with Plant acquired.....			
6	TOTAL ADDITIONS	2	222	699
7	Reductions during year.....			
8	Retirements.....	37	173	173
9	Associated with Plant sold.....			
10	TOTAL REDUCTIONS	37	173	173
11	NUMBER AT END OF YEAR	8,220	3,517	14,021
12	In Stock.....			1,846
13	On Customers' Premises - Inactive.....			601
14	On Customers' Premises - Active.....			11,554
15	In Company Use.....			20
16	NUMBER AT END OF YEAR			14,021
17	Number of Meters Tested by State Inspectors During Year.....			2,267

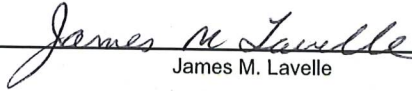
RATE SCHEDULE INFORMATION

- 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
<b>SEE ATTACHED</b>				

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

Manager  
Holyoke Gas and Electric  
Department



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James M. Lavelle

Commissioner  
Holyoke Gas and Electric  
Department



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Francis J. Hoey, III

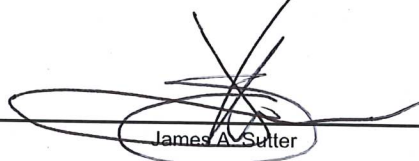
Commissioner  
Holyoke Gas and Electric  
Department



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Marcos Marerro

Commissioner  
Holyoke Gas and Electric  
Department



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James A. Sutter