Attachment 1 AG-5-6

Fitchburg Gas and Electric Light Company

1995 Functional Cost Study

FITCHBURG GAS AND ELECTRIC LIGHT COMPANY
REVENUE REQUIREMENTS
UNBUNDLED COST OF SERVICE STUDY - 1995

	FERC Jurisdictional Transmission	Distribution	Access Charge Base	EFC	CC	SAS	Total Electric
PLANT IN SERVICE							
1 Net Plant	$2,952,108	$25,120,287	$13,471,947			$0	$41,544,342
ADDITIONS							
2 Materials & Supplies	$6,633	$429,138	$161,360			$0	$597,131
3 Prepayments	$24,475	$1,969,596	$99,786			$0	$2,093,857
4 Purch Power Working Capital Allowance	$0	$0	$42,463	$0		$0	$42,463
5 O&M Working Capital Allowance	$16,708	$753,252	$228,649			$0	$998,610
6 Accrued Taxes		($127,396)	$0			$0	($127,396)
7 Nuclear Fuel Stock	$0	$0	$148,013			$0	$148,013
8 Abandoned Property	$0	$48,632	$0			$17,225,551	$17,274,184
DEDUCTIONS							
9 Deferred Tax Reserve	$860,138	$3,335,819	$3,202,341			$0	$7,398,298
10 Customer Advances		$473,481	$0			$0	$473,481
11 Rate Base	$2,139,786	$24,384,210	$10,949,878			$17,225,551	$54,699,425
12 Total Return on Rate Base	$202,354	$3,753,284	$1,685,189		$467,057	$1,136,309	$7,244,193
EXPENSES							
13 Production	$0	$0	$3,860,296	$17,971,996		$0	$21,832,292
14 A&G	$20,845	$2,382,256	$233,673			$0	$2,636,774
15 O&M	$112,823	$3,643,760	$1,595,520	$0	$714,479	$0	$6,066,582
16 Depreciation / Amortization	$134,417	$1,125,315	$768,115	$0		$939,794	$2,967,640
17 Taxes Other Than Income	$105,786	$769,525	$319,296	$0		$0	$1,194,607
18 Amortization of Investment Tax Credits	($5,771)	($63,676)	$0	$0		$0	($69,447)
19 Income Taxes	$77,674	$1,390,789	$555,344	$0		$1,293,100	$3,316,907
20 Total Expenses	$445,774	$9,247,969	$7,332,244	$17,971,996	$714,479	$2,232,894	$37,945,356
21 Revenue Requirements	$648,128	$13,001,253	$9,017,433	$17,971,996	$1,181,536	$3,369,204	$45,189,549
22 Less: Other Revenue	$0	$150,779	$0	$0	$0	$0	$0
23 Net Revenue Requirements	$648,128	$12,850,474	$9,017,433	$17,971,996	$1,181,536	$3,369,204	$45,189,549

FITCHBURG GAS AND ELECTRIC LIGHT COMPANY

1995 FUNCTIONAL COST STUDY

RATE BASE

(12 Month Average , ending December 31, 1995)

		Electric Total	FERC Jurisdictional Transmission	Distribution	Access Charge Base	SAS
	NET PLANT IN SERVICE					
1	Intangible	$47,094	$0	$47,094	$0	$0
2	Steam Production	2,631,084	0	0	2,631,084	0
3	Nuclear Production	8,584,080	0	0	8,584,080	0
4	Other Production	2,234,692	0	0	2,234,692	0
5	Common	3,228,604	0	3,228,604	0	0
6	Transmission	4,838,121	2,946,951	1,891,170	0	0
7	Distribution	19,259,420	0	19,259,420	0	0
8	General Electric Plant	676,576	4,969	649,516	22,091	0
9	Held for future Use	26,616	188	26,428	0	0
10	Acquisition Adjustments	18,055		18,055	0	0
11	Net Utility Plant	$41,544,342	$2,952,108	$25,120,287	$13,471,947	$0
	ADDITIONS					
12	Materials and Supplies	$597,131	$6,633	$429,138	$161,360	$0
13	Prepayments	2,093,857	24,475	1,969,596	99,786	0
14	Purchase Power Allowance	42,463	0		42,463	0
15	O&M Allowance	998,609	16,708	753,252	228,649	0
16	Accrued Taxes	(127,396)	0	(127,396)	0	0
17	Nuclear Fuel Stock	148,013	0		148,013	0
18	Abandoned Property	17,274,183	0	48,632	0	17,225,551
	DEDUCTIONS					
19	Deferred Tax Reserve	$7,398,298	$860,138	$3,335,819	$3,202,341	$0
20	Customer Advances	473,481	0	473,481	0	0
	RATE BASE	$54,699,423	$2,139,786	$24,384,209	$10,949,877	$17,225,551

FERC Jurisdictional Transmission
1995 Functional Cost Study
Rate Base Detail and Sources

Line #	Account	$ Balance	Source
	NET PLANT IN SERVICE		
1	Intangible	$0	
2	Steam Production	0	
3	Nuclear Production	0	
4	Other Production	0	
5	Common	0	
6	Transmission	2,946,951	1995 Total Transmission Revenue Requirement (page 1, Line. 1 - Line 10)
7	Distribution	0	
8	General Electric Plant	4,969	1995 Total Transmission Revenue Requirement (Line 2.)
9	Held for future Use	188	1995 Total Transmission Revenue Requirement (Line 3.)
10	Acquisition Adjustments		
11	Net Utility Plant	$2,952,108	
	ADDITIONS		
12	Materials and Supplies	$6,633	1995 Total Transmission Revenue Requirement (Line 7.)
13	Prepayments	24,475	1995 Total Transmission Revenue Requirement (Line 6.)
14	Purchase Power Allowance	0	
15	O&M Allowance	16,708	1995 Total Transmission Revenue Requirement (Line 8.)
16	Accrued Taxes	0	
17	Nuclear Fuel Stock	0	
18	Abandoned Property	0	
	DEDUCTIONS		
19	Deferred Tax Reserve	$860,138	1995 Total Transmission Revenue Requirement (Line 5 -Line 11))
20	Customer Advances	0	
	RATE BASE	$2,139,786	1995 Total Transmission Revenue Requirement (L. 13.)

Distribution
1995 Functional Cost Study
Rate Base

(12 Month Average , ending December 31, 1995)

Line #	Account	$ Balance	Source
	NET PLANT IN SERVICE		
1	Intangible	$47,094	FERC Account 303
2	Steam Production	0	
3	Nuclear Production	0	
4	Other Production	0	
5	Common	3,228,604	FERC A/C 390 - 398., Net Deporeciation. Split 64.4% Electric)
6	Transmission	1,891,170	(FERC A/C 350 - 359), Net Depreciation, less FERC Jurisdictional Transmission, Line 6)
7	Distribution	19,259,420	FERC A/C 360 - 373
8	General Electric Plant	649,516	FERC A/C 389 - 399 , Net Depr., less (FERC Jurisdictional Trans.+ Access Chrg. Base, Line 8)
9	Held for future Use	26,428	FERC A/C, Net Depr., less (FERC Jurisdictional Trans. + Access Chrg Base, Line 9)
10	Acquisition Adjustments	18,055	FERC A/C, Net Depreciation
11	Net Utility Plant	$25,120,287	
	ADDITIONS		
12	Materials and Supplies	$429,138	FERC A/C 154, M&S Split
13	Prepayments	1,969,596	FERC A/C 165, Prepayment Split
14	Purchase Power Allowance		
15	O&M Allowance	753,252	12.5% x Distribution O&M and A&G
16	Accrued Taxes	(127,396)	FERC A/C 236, Accrued Tax Split
17	Nuclear Fuel Stock		
18	Abandoned Property	48,632	FERC A/C 182, Electric Statiion Equipment
	DEDUCTIONS		
19	Deferred Tax Reserve	$3,335,819	Deferred Tax Assignment
20	Customer Advances	473,481	FERC A/C 235
21	RATE BASE	$24,384,209	

Access Charge Base
1995 Functional Cost Study
Rate Base

(12 Month Average , ending December 31, 1995)

Line #	Account	$ Balance	Source
	NET PLANT IN SERVICE		
1	Intangible	$0	
2	Steam Production	2,631,084	FERC A/C 310 - 316
3	Nuclear Production	8,584,080	FERCA/C 320 - 325
4	Other Production	2,234,692	FERC A/C 340 -346
5	Common	0	
6	Transmission	0	
7	Distribution	0	
8	General Electric Plant	22,091	FERC A/C 389-398, Joint Owned Generation General Plant Assignment
9	Held for future Use	0	
10	Acquisition Adjustments	0	
11	Net Utility Plant	$13,471,947	
	ADDITIONS		
12	Materials and Supplies	$161,360	FERC A/C 154-155, Joint Owned Generation M&S
13	Prepayments	99,786	FERC A/C 165, Joint Owned Generation Prepayments
14	Purchase Power Allowance	42,463	1.1% x Access Charge Base -- Purchased Electricity, Line 4
15	O&M Allowance	228,649	12.5% x Access Charge Base --O&M and A&G, Line 5 and 6
16	Accrued Taxes	0	
17	Nuclear Fuel Stock	148,013	FERC A/C 120, Nuclear Fuel Stock
18	Abandoned Property	0	
	DEDUCTIONS		
19	Deferred Tax Reserve	$3,202,341	Deferred Tax Assignment
20	Customer Advances	0	
21	RATE BASE	$10,949,877	

Seabrook Amortization Surcharge
1995 Functional Cost Study
Rate Base

(12 Month Average , ending December 31, 1995)

Line #	Account	$ Balance	Source
	NET PLANT IN SERVICE		
1	Intangible	$0	
2	Steam Production	0	
3	Nuclear Production	0	
4	Other Production	0	
5	Common	0	
6	Transmission	0	
7	Distribution	0	
8	General Electric Plant	0	
9	Held for future Use	0	
10	Acquisition Adjustments	0	
11	Net Utility Plant	$0	
	ADDITIONS		
12	Materials and Supplies	$0	
13	Prepayments	0	
14	Purchase Power Allowance	0	
15	O&M Allowance	0	
16	Accrued Taxes	0	
17	Nuclear Fuel Stock	0	
18	Abandoned Property	17,225,551	FERC A/C 182, Seabrook
	DEDUCTIONS		
19	Deferred Tax Reserve	$0	
20	Customer Advances	0	
21	RATE BASE	$17,225,551	

FERC Jurisdictional Transmission
1995 Functional Cost of Service Study
Income Statement Detail

Line #	Expense		SOURCES
1	Utility Operating Revenue	$648,128	1995 Total Transmission Revenue Requirement (Line. 29)
2	Other Revenue	0	
3	Total Operating Revenue	$648,128	
4	Purchased Electricity & Gas	$0	
5	A&G	20,845	1995 Total Transmission Revenue Requirement (Line. 24)
6	Operation & Maintenance	112,823	1995 Total Transmission Revenue Requirement (Line. 23)
7	Depreciation & Amortization	134,417	1995 Total Transmission Revenue Requirement (Line. 19)
8	Taxes, Other than Income	105,786	1995 Total Transmission Revenue Requirement (Line 22)
9	ITC Amortization	(5,771)	1995 Total Transmission Revenue Requirement (Line 21)
10	Income Taxes	77,674	1995 Total Transmission Revenue Requirement ((L.ine 15 + Line 16) x Line 13.)
11	Total Operating Expenses	$445,774	
12	Total Operating Income	$202,354	

Distribution
1995 Functional Cost of Service Study
Income Statement Detail

Line #	Expense		SOURCES
1	Utility Operating Revenue	$12,850,474	Equalized Return on Rate Base
2	Other Revenue	$150,779	
3	Total Operating Revenue	$13,001,253	
4	Purchased Electricity & Gas	$0	
5	A&G	2,382,256	FERC A/C's 923-931,935, less FERC Jurisdictional Trans and Access Chrg Base, Line 5
6	Operation & Maintenance	3,643,760	Distribution O&M -- Expense Worksheet, ITEM F, less FERC Jurisdictional Trans., Line 6
7	Depreciation & Amortization	1,125,315	FERC A/C 403, less Access Charge Base and FERC Jurisdictional Trans., Line 7
8	Taxes, Other than Income	769,525	FERC A/C 408, less Access Charge Base, Line 8
9	ITC Amortization	(63,676)	FERC A/C 411, Distribution Plant ITC
10	Income Taxes	1,390,789	Effective Tax Rate = 38.38%
11	Total Operating Expenses	$9,247,969	
12	Total Operating Income	$3,753,284	

Access Charge Base
1995 Functional Cost of Service Study
Income Statement

Line #	Expense		SOURCES
1	Utility Operating Revenue	$9,017,433	Equalized Return on Rate Base
2	Other Revenue	0	
3	Total Operating Revenue	$9,017,433	
4	Purchased Electricity & Gas	$3,860,296	Expense Detail, ITEM E
5	A&G	233,673	Expense Detail , ITEM B
6	Operation & Maintenance	1,595,520	Expense Detail, ITEM A
7	Depreciation & Amortization	768,115	Expense Detail, ITEM D
8	Taxes, Other than Income	319,296	Expense Detail, ITEM C
9	ITC Amortization	0	
10	Income Taxes	555,344	Effective Tax Rate = 38.38%
11	Total Operating Expenses	$7,332,244	
12	Total Operating Income	$1,685,189	

EFC
1995 Functional Cost of Service Study
Income Statement Detail

Line #	Expense		SOURCES
1	Utility Operating Revenue	$17,971,996	1995 EFC Revenue
2	Other Revenue	0	
3	Total Operating Revenue	$17,971,996	
4	Purchased Electricity & Gas	$17,971,996	1995 EFC
5	A&G	0	
6	Operation & Maintenance	0	
7	Depreciation & Amortization	0	
8	Taxes, Other than Income	0	
9	ITC Amortization	0	
10	Income Taxes	0	
11	Total Operating Expenses	$17,971,996	
12	Total Operating Income	$0	

CC
1995 Functional Cost of Service Study
Income Statement Detail

Line #	Expense		SOURCES
1	Utility Operating Revenue	$1,181,536	1995 CC Revenue including LBR and SSI
2	Other Revenue	0	
3	Total Operating Revenue	$1,181,536	
4	Purchased Electricity & Gas	$0	
5	A&G	0	
6	Operation & Maintenance	714,479	1995 CC Costs
7	Depreciation & Amortization	0	
8	Taxes, Other than Income	0	
9	ITC Amortization	0	
10	Income Taxes	0	
11	Total Operating Expenses	$714,479	
12	Total Operating Income	$467,057	

SAS
1995 Functional Cost of Service Study
Income Statement Detail

Line #	Expense		SOURCES
1	Utility Operating Revenue	$3,369,204	1995 SAS Revenue
2	Other Revenue	0	
3	Total Operating Revenue	$3,369,204	
4	Purchased Electricity & Gas	$0	
5	A&G	0	
6	Operation & Maintenance	0	
7	Depreciation & Amortization	0	
8	Taxes, Other than Income	0	
9	Amort of Prop Loss	939,794	FERC A/C 407, Seabrook
10	ITC Amortization	0	
11	Income Taxes	1,293,100	1995 SAS Income Tax
12	Total Operating Expenses	$2,232,894	
13	Total Operating Income	$1,136,310	

FITCHBURG GAS & ELECTRIC
1995 FUNCTIONAL COST STUDY
EXPENSE DETAIL

NHH O&M COSTS

Acct #	Account	$
500 21 00	OPER SUPVSN & ENG	69,573
501 21 01	FUEL HANDLING	20,596
502 21 00	STEAM EXPS	51,538
505 21 00	ELEC EXPS	15,144
506 21 00	STEAM PWR EXPS	44,593
510 21 00	MAINT SUPVSN & ENG	(295)
511 21 00	MAINT OF STRUCTURES	56,202
512 21 00	MAINT OF BOILER PLANT	117,014
513 21 00	MAINT OF ELEC PLANT	30,915
514 21 00	MAINT OF MISC STEAM PLANT	(1,091)
556 21 00	SYSTEM CONTROL & LOAD DISP	(8,205)
1.	TOTAL NHH O&M COSTS	$395,984

WYMAN 4 O&M COSTS

Acct #	Account	$
500 22 00	OPER SUPVSN & ENG	1,030
501 22 01	FUEL HANDLING	2,965
502 22 00	STEAM EXPS	1,852
505 22 00	ELEC EXPS	1,138
506 22 00	STEAM PWR EXPS	4,433
506 22 01	MAINT SUPVSN & ENG	501
510 22 00	MAINT OF STRUCTURES	997
511 22 00	MAINT OF BOILER PLANT	259
512 22 00	MAINT OF ELEC PLANT	1,202
513 22 00	MAINT OF MISC STEAM PLANT	314
514 22 00	SYSTEM CONTROL & LOAD DISP	283
555 60 00		57
3.	TOTALWYMAN #4 O&M COSTS	$15,031

MILLSTONE #3 O&M COSTS

Acct #	Account	$
517 23 00	OPER SUPVSN & ENG	44,567
519 24 01	COOLANTS & WATER	4,630
520 25 02	STEAM EXP	20,008
523 26 03	ELEC EXP	9,148
524 27 04	MISC PWR EXP	51,645
525 28 05	RENT ESP	2,490
528 29 06	MAIN SUPV & ENG	16,542
529 30 07	MAINT STRUCTURES	17,534
530 31 08	MAINT REACTORS	65,266
531 32 09	MAINT EL PLT	27,323
532 33 10	MAINT MISC PLT	587
562 34 11	STATION EXPS	12,104
570 35 12	MAINT STN EQUIP	480
2.	TOTAL MILLSTONE #3 O&M COSTS	$272,322

#7 TURBINE O&M COSTS

Acct #	Account	$
549 00 00	MISC OPER EXP	11,598
550 00 00	LEASE EXP	166,380
551 00 00	PROD MAINT SUPERVISOR	14,315
552 00 00	PROD MAINT STRUCTURES	6,553
553 00 00	PROD MAINT OF GENERATING UNIT	23,391
553 01 00	PROD MAINT OF #7 TURBINE	7,204
554 00 00	TELEPHONE EXP	1,026
4.	TOTAL #7 TURBINE O&M COSTS	$230,467

JO and PP TRANSMISSION COSTS

Acct #	Account	$
565 21	HI VOLT NEPOOL	52,959
565 21	LOW VOLT NEPOOL	98,823
565 22	WYMAN 4 TRANS CMP	1,850
565 22	WYMAN 4 HI VOLT NEPOOL	11,667
565 22	WYMAN 4 LOW VOLT NEPOOL	22,023
565 22	WYMAN 4 TRANS MAINE ELEC	(796)
565 22	MILL 3 HI VOLT NEPOOL	6,527
565 22	MILL 3 LOW VOLT NEPOOL	12,117
565 00	BASE TRANSMISSION BY OTHERS	476,546
5.	TOTAL JO O&M TRANSMISSION COSTS	681,716

ITEM A: 1+2+3+4+5

TOTAL Access Charge Base O&M COSTS $1,595,520

FITCHBURG GAS & ELECTRIC
1995 FUNCTIONAL COST STUDY
EXPENSE DETAIL

NHH A&G COSTS

Acct #	Account	$
920 21 00	ADMIN & GEN SALARIES	29,984
921 22 01	OFFICE SUPPLES & EXP	36,012
923 23 02	O/S SERVICES EMPLOYED	10,737
924 24 03	PROPERTY INS	6,404
925 25 04	INJURIES & DAMAGES	13,284
926 26 05	EMPL PENSIONS & BENEFITS	67,028
931 27 06	RENTS	15,895
935 0	MAINT OF GENERAL PLANT	1,107
6.	NEW HAVEN HARBOR A&G	180,451

WYMAN #4 A&G COSTS

Acct #	Account	$
920 22 00	ADMIN & GEN SALARIES	609
921 23 01	OFFICE SUPPLES & EXP	86
923 24 02	O/S SERVICES EMPL	76
924 25 03	PROPERTY INS	104
925 26 04	INJURIES & DAMAGES	52
7.	WYMAN #4 A&G	927

MILLSTONE #3 A&G COSTS

Acct #	Account	$
920 23 00	A&G SALARIES	9,036
921 24 01	OFFICE SUPPLIES & EXP	3,816
923 25 02	O/S SERVICES EMPLOYED	3,529
924 26 03	PROPERTY INS	7,284
925 27 04	INJURIES & DAMAGES	3,018
926 28 05	EMPL PENSIONS & BENEFITS	21,951
928 29 06	REGULATORY COMM EXP	14
930 30 07	MISC GENERAL EXP	512
931 31 08	RENTS	2,787
935 32 09	MAINT OF GENERAL PLANT	348
8.	MILLSTONE #3 A&G	52,295

JO OTHER TAXES

Acct #	Account	$
408 03 00	MILL 3 FICA	7,302
408 51 01	NHH FICA	17,817
408 52 02	NHH FED UNEMPLO	262
408 04 03	MILL 3 FED UNEMPLO	100
408 53 04	NHH ST UNEMPLOY	1,012
408 05 05	MILL 3 ST UNEMPL	523
408 06 06	MILL 3 PROPERTY	57,150
408 50 07	NHH PROPERTY	222,767
408 88 08	WYMAN 4 PROPERTY	7,605
408 07 09	MILL 3 OTHER TAXES	237
408 99 10	SALES & USE MILL3	4,721
9. D	JO OTHER TAXES	319,296

ITEM B. (6.+7.+.8)

TOTAL ACCESS CHARGE BASE A&G COSTS 233,673

ITEM C. (9.)

TOTAL ACCESS CHARGE BASE TAXES 319,296

FITCHBURG GAS & ELECTRIC
1995 FUNCTIONAL COST STUDY
EXPENSE DETAIL

JO DEPRECIATION

Acct #	Account	$
joaccdep.xls	#7 TURBINE	130,142
joaccdep.xls	NHH	254,615
joaccdep.xls	WYMAN #4	15,089
joaccdep.xls	MILL #3	336,437
403 01 00	MILL #3 DECOMMISSION	31,246
403 02 00	MILL #3 SIMULATOR BLD	586
	10. TOTAL JO DEPECIATION	768,115

ITEM D. TOTAL ACCESS CHARGE BASE DEPRECIATION $768,115

BASE PURCHASE POWER

Acct #	Account	$
555 02 00	LINWEAVE	1,224,339
555 08 00	GMPI LESS AMT IN EFC	1,719,241
555 13 00	PSNH LESS AMT IN EFC	450,000
555 04 00	KES LESS AMT IN EFC	466,716
	11. TOTAL BASE PURCHASE POWER	3,860,296

ITEM E. TOTAL ACCESS CHARGE BASE PURCHASED PWR $3,860,296

LOCAL POWER SUPPLY O&M

Acct #	Account	$
556 00 00	SYS CONT & LOAD DIS	121,859
556 01 00	NEPEX	77,694
556 02 00	REMVEC	22,890
556 21 00	NHH SYSTEM CONTROL	(8,205)
557 00 00	OUTSIDE SERVICES - POWER SUPPLY	342,403
	12. LOCAL POWER SUPPLY O&M	556,641

DISTRIBUTION O&M

Acct #	Account	$
560-572	LOCAL TRANSMISSION O&M	95,972
581-598	DISTRIBUTION MAINT EXPENSE	1,338,707
901-904	CUSTOMER ACCOUNTING	1,266,283
907-909	CUSTOMER SERVICE	1,167,756
916	SALES	50,100
		3,918,818
908	LESS DSM	(714,479)
	13. LOCAL DISTRIBUTION & TRANS. O&M	3,204,339

ITEM F. (12.+ 13.)
TOTAL LOCAL DISTRIBUTION (T&D) O&M 3,760,980

Attachment 2 AG-5-6

Fitchburg Gas and Electric Light Company

1995 FERC Jurisdictional Transmission

Fitchburg Gas and Electric Light Company

1995 Total Transmission Revenue Requirement (1)

Attachment F (a.)

	Formula Reference	Transmission Investment Base		1995 FERC Form 1 Reference / Source
1.)	I.A.1.a.	Total Transmission Plant	$5,078,504	See Detail of Transmission Plant as of 12/31/95
2.)	I.A.1.b.	General Plant	$4,969	
3.)	I.A.1.c.	Transmission Plant Held for Future Use	$188	
4.)	I.A.1.f.	Loss on Reacquired Debt	$0	
5.)	I.A.1.g.	Other Regulatory Assets	$782,017	
6.)	I.A.1.h.	Prepayments	$74,475	
7.)	I.A.1.i.	Materials and Supplies	$6,633	
8.)	I.A.1.j.	Cash Working Capital	$16,708	
9.)		Subtotal	$5,913,494	sum of lines 1 to 8
		Less		
10.)	I.A.1.d.	Depreciation Reserve	$2,131,553	
11.)	I.A.1.e.	Accumulated Deferred Taxes	$1,642,155	
12.)		Subtotal	$3,773,708	
13.)	I.A.1.	Total Investment Base	$2,139,786	line 9 - line 12
		Cost of Capital Rate		
14.)	I.A.2.a.	Weighted Cost of Capital	9.46%	See Workpaper 2
15.)	I.A.2.b.	Federal Income Tax	2.99%	
16.)	I.A.2.c.	State Income Tax	0.64%	
17.)	I.A.2.	Total Cost of Capital Rate	13.09%	sum of lines 14 to 16
		Revenue Requirement		
18.)	I.A.	Return and Associated Income Taxes	$280,029	
19.)	I.B.	Depreciation Expense	$134,417	
20.)	I.C.	Amortization of Loss on Reacquired Debt	$0	
21.)	I.D.	Amortization of Investment Tax Credits	($5,771)	
22.)	I.E.	Municipal Tax Expense	$105,786	
23.)	I.F.	O&M expense	$57,177	
24.)	I.G.	A&G expense	$20,845	
25.)	I.H.	Integrated Facilities Charges	$0	
26.)	I.I.	Transmission Support Revenue	$0	
27.)	I.J.	Transmision Support Expense	$55,645	
28.)	I.K.	Expense From Generators	$0	
29.)	I.	Total Revenue Requirement	$648,128	sum of lines 18 to 28

(1) 1995 Total Transmission Revenue Requirement equals the sum of the Non-Pool Transmission Facilities Revenue Requirement and the Pool Transmission Facilities Revenue Requirement.

Fitchburg Gas and Electric Light Company

1995 Transmission Revenue Requirement of Non-Pool Transmission Facilities

Attachment F (a.)

	Formula Reference	Transmission Investment Base		1995 FERC Form 1 Reference / Source
1.)	LA.1.a.	Non-PTF Transmission Plant	$891,247	
2.)	LA.1.b.	General Plant (1) (2)	$872	p.207.83.g
3.)	LA.1.c.	Transmission Plant Held for Future Use (2)	$33	p.214.47.d (1)
4.)	LA.1.f.	Loss on Reacquired Debt (2) (3)	$0	p.111.65.d
5.)	LA.1.g.	Other Regulatory Assets (1) (2) (3)	$137,239	p.232 + p.233.1.f - p269.1.f
6.)	LA.1.h.	Prepayments (1) (2)	$4,295	p.110.46.d
7.)	LA.1.i.	Materials and Supplies (2)	$1,164	p.227.8.c
8.)	LA.1.j.	Cash Working Capital	$1,712	(line 23 + line 24 + line 27) * 0.125
9.)		Subtotal	$1,036,562	sum of lines 1 to 8
		Less		
10.)	LA.1.d.	Depreciation Reserve (1) (2)	$374,075	p.219.23.c + p.219.25.c
11.)	LA.1.e.	Accumulated Deferred Taxes (2) (3)	$288,188	p.113.53.d - p.234.18.c
12.)		Subtotal	$662,263	sum of lines 10 and 11
13.)	LA.1.	Total Investment Base	$374,299	line 9 - line 12
		Cost of Capital Rate		
14.)	LA.2.a.	Weighted Cost of Capital	9.46%	See Workpaper 2
15.)	LA.2.b.	Federal Income Tax (4)	2.99%	
16.)	LA.2.c.	State Income Tax (5)	0.64%	
17.)	LA.2.	Total Cost of Capital Rate	13.09%	sum of lines 14 to 16
		Revenue Requirement		
18.)	LA.	Return and Associated Income Taxes	$48,984	product of lines 13 and 17
19.)	LB.	Depreciation Expense (1) (2)	$23,589	p.336.7.c + p.336.9.c
20.)	LC.	Amortization of Loss on Reacquired Debt (2) (3)	$0	p.117.58.d
21.)	LD.	Amortization of Investment Tax Credits (2) (3)	($1,013)	p.266.8.f
22.)	LE.	Municipal Tax Expense (2) (3)	$18,565	p.263.15-18.i + p.263.25.i
23.)	LF.	O&M expense (2)	$10,034	p.321.100.b - p.321.88.b - p.321.84.b
24.)	LG.	A&G expense (1) (2)	$3,658	p.323.168.b + p.263.2-4,6-8,10-12.i + p.263.24.i
25.)	LH.	Integrated Facilities Charges	$0	
26.)	LI.	Transmission Support Revenue	$0	
27.)	LJ.	Transmision Support Expense	$0	
28.)	LK.	Expense From Generators	$0	
29.)	L	Total Revenue Requirement	$103,818	sum of lines 18 to 28
		Formula Notes		
(1)	LA.1.b.	Transmission Wages and Salaries Allocation Factor =	1.18%	= (Trans. Wages) / (Total Wages - A&G Wages)
(2)	LA.1.b.	Non-PTF Transmission Plant Allocation Factor =	10.46%	= (Non-PTF Trans. Plant) / (Total Trans. Plant - HQ Leases)
(3)	LA.1.c.	Plant Allocation Factor =	13.95%	= (Total Trans. Plant - HQ) / (Tot. Plant in Service - Gen. Plant -
(4)	LA.2.b.	Federal Income Tax =	2.99%	= (A x FT) / (1 - FT)
(5)	LA.2.c.	State Income Tax =	0.64%	= (A + Federal Income Tax) * ST / (1 - ST)
		A = preferred stock plus ROE components =	5.80%	See Workpaper 2

(a.) The Pool Transmission Facilities revenue requirement formula (see Attachment F Pursuant to the NEPOOL Open Access Transmission Tariff) was used to develop the revenue requirement for the Non-Pool Transmission Facilities.

Fitchburg Gas and Electric Light Company

1995 Transmission Revenue Requirement of Pool Transmission Facilities

Pursuant to NEPOOL Open Access Transmission Tariff - ATTACHMENT F

	Formula Reference	Transmission Investment Base		1995 FERC Form 1 Reference / Source
1.)	I.A.1.a.	PTF Transmission Plant	$4,187,257	See Workpaper 1
2.)	I.A.1.b.	General Plant (1) (2)	$4,097	p.207.83.g
3.)	I.A.1.c.	Transmission Plant Held for Future Use (2)	$155	p.214.47.d (1)
4.)	I.A.1.f.	Loss on Reacquired Debt (2) (3)	$0	p.111.65.d
5.)	I.A.1.g.	Other Regulatory Assets (1) (2) (3)	$644,778	p.232 + p.233.1.f - p269.1.f
6.)	I.A.1.h.	Prepayments (1) (2)	$20,179	p.110.46.d
7.)	I.A.1.i.	Materials and Supplies (2)	$5,469	p.227.8.c
8.)	I.A.1.j.	Cash Working Capital	$14,997	(line 23 + line 24 + line 27) * 0.125
9.)		Subtotal	$4,876,932	sum of lines 1 to 8
		Less		
10.)	I.A.1.d.	Depreciation Reserve (1) (2)	$1,757,479	p.219.23.c + p.219.25.c
11.)	I.A.1.e.	Accumulated Deferred Taxes (2) (3)	$1,353,966	p.113.53.d - p.234.18.c
12.)		Subtotal	$3,111,445	sum of lines 10 and 11
13.)	I.A.1.	Total Investment Base	$1,765,487	line 9 - line 12
		Cost of Capital Rate		
14.)	I.A.2.a.	Weighted Cost of Capital	9.46%	See Workpaper 2
15.)	I.A.2.b.	Federal Income Tax (4)	2.99%	
16.)	I.A.2.c.	State Income Tax (5)	0.64%	
17.)	I.A.2.	Total Cost of Capital Rate	13.09%	sum of lines 14 to 16
		Revenue Requirement		
18.)	I.A.	Return and Associated Income Taxes	$231,045	product of lines 13 and 17
19.)	I.B.	Depreciation Expense (1) (2)	$110,828	p.336.7.e + p.336.9.e
20.)	I.C.	Amortization of Loss on Reacquired Debt (2) (3)	$0	p.117.58.d
21.)	I.D.	Amortization of Investment Tax Credits (2) (3)	($4,758)	p.266.8.f
22.)	I.E.	Municipal Tax Expense (2) (3)	$87,221	p.263.15-18.i + p.263.25.i
23.)	I.F.	O&M expense (2)	$47,143	p.321.100.b - p.321.88.b - p.321.84.b
24.)	I.G.	A&G expense (1) (2)	$17,187	p.323.168.b + p.263.2-4,6-8,10-12.i + p.263.24.i
25.)	I.H.	Integrated Facilities Charges	$0	
26.)	I.I.	Transmission Support Revenue	$0	
27.)	I.J.	Transmision Support Expense	$55,645	BECo + NEP AC HQII Support (A/C 565.73)
28.)	I.K.	Expense From Generators	$0	
29.)	I.	Total Revenue Requirement	$544,311	sum of lines 18 to 28
		Formula Notes		
(1)	I.A.1.b.	Transmission Wages and Salaries Allocation Factor =	1.18%	= (Trans. Wages) / (Total Wages - A&G Wages)
(2)	I.A.1.b.	PTF Transmission Plant Allocation Factor =	49.12%	= (PTF Trans. Plant) / (Total Trans. Plant - HQ Leases)
(3)	I.A.1.e.	Plant Allocation Factor =	13.95%	= (Total Trans. Plant - HQ) / (Tot. Plant in Service - Gen. Plant - HQ
(4)	I.A.2.b.	Federal Income Tax =	2.99%	= (A x FT) / (1 - FT)
(5)	I.A.2.c.	State Income Tax =	0.64%	= (A + Federal Income Tax) * ST / (1 - ST)
		A = preferred stock plus ROE components =	5.80%	See Workpaper 2

Detail of Transmission Plant as of 12/31/95

Category	Account	Description	Amount Added	Amount Retired	Total Plant Balance	Trans. Percent	Transmission Plant Balance
Flagg Pond							
	353	Purchased from New England Power on 6/1/77	$1,272,305.18	$0.00	$1,272,305.18	100%	$1,272,305.18
	353	Transfer acquisition costs to acct 2-353-99	($84,274.29)	$0.00	($84,274.29)	100%	($84,274.29)
	353	Retire 2 600 amp OCB plus installation	$0.00	$21,975.62	($21,975.62)	100%	($21,975.62)
	353	Install 115kv breaker status for REMVEC	$14,556.40	$0.00	$14,556.40	100%	$14,556.40
	353	See F-2172	$937,758.94	$12,809.54	$924,949.40	100%	$924,949.40
	353	Install 2 1000w Lucalox Floodlights near control shack	$2,938.12	$0.00	$2,938.12	100%	$2,938.12
	353	Install Potential Transformers	$21,174.57	$0.00	$21,174.57	100%	$21,174.57
	353	Retire PT	$0.00	$4,628.41	($4,628.41)	100%	($4,628.41)
	353	Metering	$41,916.83	$0.00	$41,916.83	100%	$41,916.83
	353	Install #27 & #28 airbreak switch on #2 Feeder	$17,310.44	$0.00	$17,310.44	100%	$17,310.44
	353	Retire #27 & #28 airbreak switch on #2 Feeder	$0.00	$5,762.36	($5,762.36)	100%	($5,762.36)
	353	Adjust to above entry	$183.25	$0.00	$183.25	100%	$183.25
	353	Install PT on 02 Line	$8,435.83	$0.00	$8,435.83	100%	$8,435.83
	353	Retire PT on 02 Line	$0.00	$21,174.57	($21,174.57)	100%	($21,174.57)
	353	Install 2016 of 4/0 st bare copper	$1,868.89	$0.00	$1,868.89	100%	$1,868.89
	353	Install 50' of 2" PVC Pipe	$4,033.47	$0.00	$4,033.47	100%	$4,033.47
	353	785' of 4/0 st 600 volt	$0.00	$1,198.75	($1,198.75)	100%	($1,198.75)
	353	50' of 4/0 wire	$0.00	$31.55	($31.55)	100%	($31.55)
	353	760' of 4/0 hard drawn wire	$0.00	$1,310.88	($1,310.88)	100%	($1,310.88)
	353	50' of 4/0 wire	$0.00	$106.74	($106.74)	100%	($106.74)
	353	965' of 4/0 wire	$0.00	$2,876.75	($2,876.75)	100%	($2,876.75)
	353	50' of 2" PVC Pipe	$0.00	$164.50	($164.50)	100%	($164.50)
	353	GE 69kv Bushing in OCB s/n 0139A4928-201	$0.00	$14,231.56	($14,231.56)	100%	($14,231.56)
	353	69kv 1200amp bushing in OCB	$2,405.57	$0.00	$2,405.57	100%	$2,405.57
	353	Data Star Recorders	$3,780.00	$0.00	$3,780.00	100%	$3,780.00
	353	Installed Data Star Recorder Software Level #2	$750.00	$0.00	$750.00	100%	$750.00
	353	Payroll & overheads for above install	$1,014.38	$0.00	$1,014.38	100%	$1,014.38
	353	Recorder Tape System GE	$0.00	$5,300.00	($5,300.00)	100%	($5,300.00)
	353	Universal Mag Tape Cartridges	$0.00	$637.20	($637.20)	100%	($637.20)
	353	Watt/Var Transducer	$5,950.00	$0.00	$5,950.00	100%	$5,950.00
	353	Volt Transducer	$185.00	$0.00	$185.00	100%	$185.00
	353	Shipping & Handling	$34.92	$0.00	$34.92	100%	$34.92
	353	500' 4/C #12 AWG Control Cable	$1,142.10	$0.00	$1,142.10	100%	$1,142.10
	353	50' 1/2 watt precision reistors	$41.39	$0.00	$41.39	100%	$41.39
	353	350' T&B Stakon Terminals	$86.45	$0.00	$86.45	100%	$86.45
	353	69' Copper Wire	$10.35	$0.00	$10.35	100%	$10.35
	353	Cable Tie	$17.55	$0.00	$17.55	100%	$17.55
	353	Misc Parts	$52.76	$0.00	$52.76	100%	$52.76
	353	Labor for fixing recorder	$368.80	$0.00	$368.80	100%	$368.80
	353	Labor for wiring	$124.20	$0.00	$124.20	100%	$124.20
	353	Install GETEC Telemetering to REMVAC (Liabilities)	$422.31	$0.00	$422.31	100%	$422.31
	353	Overheads	$6,638.54	$0.00	$6,638.54	100%	$6,638.54
	353	Payroll	$8,030.61	$0.00	$8,030.61	100%	$8,030.61
	353	Bristol DPC 333010A computer	$4,230.71	$0.00	$4,230.71	100%	$4,230.71
	353	Bristol SLC 371140A Recorders	$5,771.41	$0.00	$5,771.41	100%	$5,771.41
	353	Bristol Power Supply	$515.05	$0.00	$515.05	100%	$515.05
	353	Labor to set up Bristol	$2,355.00	$0.00	$2,355.00	100%	$2,355.00
	353	Spare Interrupter Assembly for 115kv Circuit breaker	$9,512.00	$0.00	$9,512.00	100%	$9,512.00
	353	Retire Westinghouse auto transformer	$0.00	$152,101.77	($152,101.77)	100%	($152,101.77)
	353	Redisgn Rewind & Rebuild 30/40/50 MVA West,	$0.00	$0.00	$0.00	100%	$0.00
	353	Auto Transformer s/n 34891 includes all charges	$514,480.75	$0.00	$514,480.75	100%	$514,480.75
	353	Purch used Auto Transformer 24/40 mva Magntek	$200,032.04	$0.00	$200,032.04	100%	$200,032.04
	353	For future costs assoc. w/ additions 69kv connections	($97,766.02)	$0.00	($97,766.02)	100%	($97,766.02)
	353	Fused Disconnect	$0.00	$505.26	($505.26)	100%	($505.26)
	353	Replace Fused Disconnect	$434.21	$0.00	$434.21	100%	$434.21
	353	Install & purch EM-GRO Air Compressor	$1,273.97	$0.00	$1,273.97	100%	$1,273.97
	353	Install Deadend Structure 3-arrestors & 6-bushings	$30,233.66	$0.00	$30,233.66	100%	$30,233.66
	353	Construct 115 Kv facilities & connect spare transformer	$0.00	$0.00	$0.00	100%	$0.00
	353	in place of failed #1 autotrans.	$237,601.84	$0.00	$237,601.84	100%	$237,601.84
	353	Repair and rewind of 115-69 KV #1 Autotransformer	$0.00	$0.00	$0.00	100%	$0.00
	353	including uprating to a rated capacity of 60/80/100 MVA	$335,776.00	$0.00	$335,776.00	100%	$335,776.00
	353	Insurance Recovery less deductible of $25K	($321,696.66)	$0.00	($321,696.66)	100%	($321,696.66)
	353	Lightning arrestors, delivery and testing	$6,840.09	$0.00	$6,840.09	100%	$6,840.09
	Subtotal						$2,954,041.15
Flagg Pond							
	352		$24,143.99	$0.00	$24,143.99	100%	$24,143.99
	Subtotal						$24,143.99

Detail of Transmission Plant as of 12/31/95

Category	Account	Description	Amount Added	Amount Retired	Total Plant Balance	Trans. Percent	Transmission Plant Balance
Summer Street							
	353	705' Chain Link Fence	$3,261.00	$0.00	$3,261.00	100%	$3,261.00
	353	159' Chain Link Fence	$1,150.43	$0.00	$1,150.43	100%	$1,150.43
	353	4 - Relay GE	$1,610.00	$0.00	$1,610.00	100%	$1,610.00
	353	6 - GE Potential Transformers	$1,592.00	$0.00	$1,592.00	100%	$1,592.00
	353	3 - Switches for Control Power	$164.00	$0.00	$164.00	100%	$164.00
	353	Conduit & Control Wiring	$5,751.00	$0.00	$5,751.00	100%	$5,751.00
	353	Conductors & Insulators	$804.00	$0.00	$804.00	100%	$804.00
	353	Transformer Foundation	$892.00	$0.00	$892.00	100%	$892.00
	353	Switchgear Foundation	$892.00	$0.00	$892.00	100%	$892.00
	353	Reactor Foundation	$892.00	$0.00	$892.00	100%	$892.00
	353	Neutral Resistor Foundation	$446.00	$0.00	$446.00	100%	$446.00
	353	General Electric 21000/28000/35000MVA Power Transformer	$66,743.00	$0.00	$66,743.00	100%	$66,743.00
	353	3 - GE 600 Amp 300 Volt outdoor Reactor	$4,674.00	$0.00	$4,674.00	100%	$4,674.00
	353	2 - GE 1200 amp 14.4KV oil Circuit Breaker	$10,731.00	$0.00	$10,731.00	100%	$10,731.00
	353	37 - Disconnect Switches	$6,014.00	$0.00	$6,014.00	100%	$6,014.00
	353	24 - Tandem Transfer Switches	$3,009.00	$0.00	$3,009.00	100%	$3,009.00
	353	24 - 15kv valve Lightning Arresters	$3,215.00	$0.00	$3,215.00	100%	$3,215.00
	353	Grounding Material Installed	$1,601.00	$0.00	$1,601.00	100%	$1,601.00
	353	Bus Connections 13.8kv Installed	$6,554.76	$0.00	$6,554.76	100%	$6,554.76
	353	GE Neutral Resistpr	$10,825.00	$0.00	$10,825.00	100%	$10,825.00
	353	GE Oil Circuit Breaker	$260.00	$0.00	$260.00	100%	$260.00
	353	GE Protected Aisle Switchgear	$19,645.00	$0.00	$19,645.00	100%	$19,645.00
	353	18 - Poles installed Terminations of 13.8kv Feeder in S/S	$1,571.00	$0.00	$1,571.00	100%	$1,571.00
	353	62 - Crossarms	$918.00	$0.00	$918.00	100%	$918.00
	353	200' - 336.4MCM Alum wire	$2,472.00	$0.00	$2,472.00	100%	$2,472.00
	353	12 - Anchor guys	$311.00	$0.00	$311.00	100%	$311.00
	353	4 - 600 amp Oil Circuit Breakers 250 MBA 14.4kv	$20,433.00	$0.00	$20,433.00	100%	$20,433.00
	353	2 - Recloser Installed	$11,622.00	$0.00	$11,622.00	100%	$11,622.00
	353	1 - 18' Switch Stick	$88.00	$0.00	$88.00	100%	$88.00
	353	2 - Flood lights	$311.00	$0.00	$311.00	100%	$311.00
	353	2 - Indicators on cooling fans of transformer & oil pump	$75.00	$0.00	$75.00	100%	$75.00
	353	Foundation for OCB	$1,661.00	$0.00	$1,661.00	100%	$1,661.00
	353	Foundation for Steel Structure	$2,545.00	$0.00	$2,545.00	100%	$2,545.00
	353	Foundation for Control House	$961.00	$0.00	$961.00	100%	$961.00
	353	3 - GE 2500mva OCB	$37,901.00	$0.00	$37,901.00	100%	$37,901.00
	353	Steel Structure	$9,153.00	$0.00	$9,153.00	100%	$9,153.00
	353	Control House	$2,990.00	$0.00	$2,990.00	100%	$2,990.00
	353	Grounding	$894.00	$0.00	$894.00	100%	$894.00
	353	3 - Control Panels	$9,410.00	$0.00	$9,410.00	100%	$9,410.00
	353	Conduit & Wiring	$2,569.00	$0.00	$2,569.00	100%	$2,569.00
	353	Supervisory Equipment	$12,037.00	$0.00	$12,037.00	100%	$12,037.00
	353	Additional Charges	$3,325.00	$0.00	$3,325.00	100%	$3,325.00
	353	69kv Bus Insulators & Connectors	$5,763.00	$0.00	$5,763.00	100%	$5,763.00
	353	5 - 69kv 1200 amp TPST	$11,228.00	$0.00	$11,228.00	100%	$11,228.00
	353	23 - 69kv 600 amp Disconnect Switch	$7,682.00	$0.00	$7,682.00	100%	$7,682.00
	353	9 - 69kv Lightning Arrestors	$3,682.00	$0.00	$3,682.00	100%	$3,682.00
	353	3 - 69kv Capacitor Devices	$2,810.00	$0.00	$2,810.00	100%	$2,810.00
	353	Foundation for OCB	$777.00	$0.00	$777.00	100%	$777.00
	353	Conduit Connection installed	$509.00	$0.00	$509.00	100%	$509.00
	353	Control Panel	$2,992.00	$0.00	$2,992.00	100%	$2,992.00
	353	Termination for #08 Line	$1,303.00	$0.00	$1,303.00	100%	$1,303.00
	353	Overheads	$4,416.00	$0.00	$4,416.00	100%	$4,416.00
	353	1 - 69kv OCB	$16,347.00	$0.00	$16,347.00	100%	$16,347.00
	353	Overheads	$670.00	$0.00	$670.00	100%	$670.00
	353	2 - Underfrequency Relays	$2,249.00	$0.00	$2,249.00	100%	$2,249.00
	353	Foundation	$1,652.00	$0.00	$1,652.00	100%	$1,652.00
	353	69kv Bus Insulators & Connectors	$7,183.90	$0.00	$7,183.90	100%	$7,183.90
	353	Steel Structure	$7,083.00	$0.00	$7,083.00	100%	$7,083.00
	353	Grounding	$538.00	$0.00	$538.00	100%	$538.00
	353	Control Panels	$9,067.00	$0.00	$9,067.00	100%	$9,067.00
	353	Conduit & Wiring	$875.00	$0.00	$875.00	100%	$875.00
	353	2 - 69kv Air Break Switches	$6,128.00	$0.00	$6,128.00	100%	$6,128.00
	353	9 - 69kv 600 amp Disconnect Switch	$4,037.00	$0.00	$4,037.00	100%	$4,037.00
	353	1 - 69kv OCB	$18,907.00	$0.00	$18,907.00	100%	$18,907.00
	353	6 - 69kv Lightning Arrestors	$4,362.00	$0.00	$4,362.00	100%	$4,362.00
	353	1 - Electric Heater in 13.8KV Switchgear cabin	$260.12	$0.00	$260.12	100%	$260.12
	353	6 - Bushings 2000amp 13.8kv high volt for roof of building	$4,093.17	$0.00	$4,093.17	100%	$4,093.17
	353	3 - Bushing on GE Oil Circuit Breakers on #3 & #40 feeder	$1,257.58	$0.00	$1,257.58	100%	$1,257.58
	353	Transformer Replacement	$937.01	$0.00	$937.01	100%	$937.01
	353	Transformer Lightning Arrester replaced	$399.55	$0.00	$399.55	100%	$399.55
	353	2 - 69kv OCB for #01 Line	$96,019.79	$0.00	$96,019.79	100%	$96,019.79
	353	Supervisory Control Recloser Indicator	$2,898.60	$0.00	$2,898.60	100%	$2,898.60
	353	Install 540' of #12-7 conductor to Robin Hood Park	$841.90	$0.00	$841.90	100%	$841.90
	353	Nominal Capacity Lead Antimony Battery	$1,943.92	$0.00	$1,943.92	100%	$1,943.92
	353	3 - 600 amp 13.8kv outdoor reactors	$15,085.31	$0.00	$15,085.31	100%	$15,085.31
	353	6 - Bushings for #40-10 3 oil circuit breaker	$3,096.35	$0.00	$3,096.35	100%	$3,096.35
	353	FERC Adjustment	(379.00)	$0.00	(379.00)	100%	(379.00)

Detail of Transmission Plant as of 12/31/95

Category	Account	Description	Amount Added	Amount Retired	Total Plant Balance	Trans. Percent	Transmission Plant Balance
	353	Install 2'x2' plywood board incontrol house	$618.78	$0.00	$618.78	100%	$618.78
	353	Capacitor Bank 36 - 200Kvar Cap Units	$75,309.61	$0.00	$75,309.61	100%	$75,309.61
	353	Additions	$10,968.78	$0.00	$10,968.78	100%	$10,968.78
	353	Additions	$11,232.45	$0.00	$11,232.45	100%	$11,232.45
	353	Purch of McGraw Edison UCR Oil Switch	$4,169.15	$0.00	$4,169.15	100%	$4,169.15
	353	2 - Installed 69kv Bus Insulator	$785.20	$0.00	$785.20	100%	$785.20
	353	8 - Yuasa Epide batteries for DC Supply	$3,225.84	$0.00	$3,225.84	100%	$3,225.84
	353	Install stage Regulator & Nitro tanks to transformer	$845.22	$0.00	$845.22	100%	$845.22
	353	Remove & install new #2 Capacitor Switch	$691.47	$0.00	$691.47	100%	$691.47
	Subtotal						$626,834.89
#01 & #02 Lines							
	356	02 Line conductor 1969 556.7 MCM	$34,547.61	$0.00	$34,547.61	100%	$34,547.61
	356	01 Line conductor 1973 556.7 MCM	$139,411.07	$0.00	$139,411.07	100%	$139,411.07
	356	02 Line shield wire 1969 2 wires - 3 No. 6	$9,919.24	$0.00	$9,919.24	100%	$9,919.24
	356	01 Line shield wire 1973 1 wire - 3 No. 6	$12,961.62	$0.00	$12,961.62	100%	$12,961.62
	Subtotal						$196,839.54
#01 & #02 Line Poles and Xarms							
	355	02 Line poles 1969 (itemized list GHH)	$221,574.99	$0.00	$221,574.99	100%	$221,574.99
	355	01 Line poles 1969 (itemized list GHH)	$341,628.84	$0.00	$341,628.84	100%	$341,628.84
	Subtotal						$563,203.83
Electric Station							
	353	Special Transformer Inclosure	$146.57	$0.00	$146.57	100%	$146.57
	353	Fence	$506.71	$0.00	$506.71	100%	$506.71
	353	Concrete Mat for transformer	$980.23	$0.00	$980.23	100%	$980.23
	353	5000kva GE 3 Phase transformer	$15,568.02	$0.00	$15,568.02	100%	$15,568.02
	353	Install Transformer	$1,727.22	$0.00	$1,727.22	100%	$1,727.22
	353	Reinforce foundation	$3,271.47	$0.00	$3,271.47	100%	$3,271.47
	353	155' - fence	$868.20	$0.00	$868.20	100%	$868.20
	353	13kv cable connections to switchgear	$1,859.53	$0.00	$1,859.53	100%	$1,859.53
	353	5000kva GE 3 Phase transformer	$17,995.96	$0.00	$17,995.96	100%	$17,995.96
	353	Foundation	$4,086.42	$0.00	$4,086.42	100%	$4,086.42
	353	Install Transformer	$900.53	$0.00	$900.53	100%	$900.53
	353	13.8kv cable connections to switchgear	$3,854.34	$0.00	$3,854.34	100%	$3,854.34
	353	5 kv bus duct installed	$10,797.32	$0.00	$10,797.32	100%	$10,797.32
	353	Eastern Fence 12' double drive gate & posts	$149.00	$0.00	$149.00	100%	$149.00
	353	69kv Power Transformer & Foundation	$101,768.00	$0.00	$101,768.00	100%	$101,768.00
	353	Galv Steel Terminating Structure	$8,099.00	$0.00	$8,099.00	100%	$8,099.00
	353	Ins & misc connections installed	$733.00	$0.00	$733.00	100%	$733.00
	353	3x8 Lighted Sign	$282.00	$0.00	$282.00	100%	$282.00
	353	Additional 1800 Kvar of capacitors in bank	$52,613.25	$0.00	$52,613.25	100%	$52,613.25
	353	Auxiliary Currenttransformer	$2,104.00	$0.00	$2,104.00	100%	$2,104.00
	353	West. differential relays	$348.00	$0.00	$348.00	100%	$348.00
	353	Lockout & auxiliary relays	$1,447.00	$0.00	$1,447.00	100%	$1,447.00
	353	15 kv current Transformers	$1,260.00	$0.00	$1,260.00	100%	$1,260.00
	353	Annunciators installed	$669.00	$0.00	$669.00	100%	$669.00
	353	13kv Potential transformer	$3,763.00	$0.00	$3,763.00	100%	$3,763.00
	353	Central Wiring	$4,074.00	$0.00	$4,074.00	100%	$4,074.00
	353	West 450kva Current Limiting reactor	$6,988.00	$0.00	$6,988.00	100%	$6,988.00
	353	Change range of Speedomax Leed & Northrup Recorder	$365.00	$0.00	$365.00	100%	$365.00
	353	GE Auxiliary transformer & Relays	$3,295.00	$0.00	$3,295.00	100%	$3,295.00
	353	Speedomax Recorder Leeds & Northrup	$1,378.00	$0.00	$1,378.00	100%	$1,378.00
	353	Thermal Converter	$457.00	$0.00	$457.00	100%	$457.00
	353	Parts to change range of thermal converter	$1,169.00	$0.00	$1,169.00	100%	$1,169.00
	353	Converting range on Speedomax	$333.00	$0.00	$333.00	100%	$333.00
	353	Converting range on Speedomax	$288.00	$0.00	$288.00	100%	$288.00
	353	Converting range on Speedomax	$332.00	$0.00	$332.00	100%	$332.00
	353	Amplifier Leeds & Northrup to be used with Speedomax	$158.00	$0.00	$158.00	100%	$158.00
	353	Supervisory Equip installed	$4,452.00	$0.00	$4,452.00	100%	$4,452.00
	353	Additional charges for above	$1,230.00	$0.00	$1,230.00	100%	$1,230.00
	353	Capitalized Overheads for above	$248.00	$0.00	$248.00	100%	$248.00
	353	Underground system improvement	$5,667.99	$0.00	$5,667.99	100%	$5,667.99
	353	Install of a 13.8kv Bus between #6 & Bus #2	$58,844.30	$0.00	$58,844.30	100%	$58,844.30
	353	Replace Lead Calcium Battery	$7,965.19	$0.00	$7,965.19	100%	$7,965.19
	353	Purch Power Supply for Tone Equipment	$413.74	$0.00	$413.74	100%	$413.74
	Subtotal						$333,455.99

Detail of Transmission Plant as of 12/31/95

Category	Account	Description	Amount Added	Amount Retired	Total Plant Balance	Trans. Percent	Transmission Plant Balance
Electric Station Line							
	356	Trans Line from Electric Station	$5,604.00	$0.00	$5,604.00	100%	$5,604.00
	356	Trans Line from Electric Station	$15,011.00	$0.00	$15,011.00	100%	$15,011.00
	355	Trans Line from Electric Station Allocation (Estimated)	$36,342.86	$0.00	$36,342.86	100%	$36,342.86
	Subtotal						**$56,957.86**
Land							
	350	Cost of Land purchased from New England Power Co.	$6,663.35	$0.00	$6,663.35	100%	$6,663.35
	350	Acquisition Costs for land at Flagg Pond & Beech St. Subs	$817.70	$0.00	$817.70	100%	$817.70
	350	Transmission Land #01, 02 & 06 Lines	$78,545.00	$0.00	$78,545.00	100%	$78,545.00
	350	Transmission ROW #01, 02 & 06 Lines	$144,391.00	$0.00	$144,391.00	100%	$144,391.00
	351	Clearing on Line #01 Flagg Pond to Summer St. S/S	$6,654.38	$0.00	$6,654.38	100%	$6,654.38
	351	Install gate at both ends of 01 & 02 tap	$1,381.92	$0.00	$1,381.92	100%	$1,381.92
	350	Off Summer St. Fitchburg	$4,797.00	$0.00	$4,797.00	100%	$4,797.00
	350	Crushed Stone for Summer St. S/S yard	$2,890.00	$0.00	$2,890.00	100%	$2,890.00
	350	Grading for Summer St. S/S	$528.00	$0.00	$528.00	100%	$528.00
	Subtotal						**$246,668.35**
NEPCo Acquisition Cost							
	352		$4,018.08			60% *	$2,423.15
	353		$122,600.09			60% *	$73,935.31
							$76,358.46
JOINT OWNED UNITS							
Millstone III	352		$11,383.84			100%	$11,383.84
	353		$50,261.66			100%	$50,261.66
	355		$13,202.36			100%	$13,202.36
	356		$3,302.94			100%	$3,302.94
Wyman#4	352		$0.00			100%	$0.00
	353		$4,636.19			100%	$4,636.19
New Haven	352		$0.00			100%	$0.00
	353		$55,704.98			100%	$55,704.98
							$138,491.97

Grand Total (less Joint Owned) Total $5,078,504.06

* 60% is the ratio of transmission plant as defined in this workpaper, to transmission plant as defined in Dec 31, 1995 FERC Form 1 filing. NEPCo acquisition costs are being allocated in the same percentage as facilities being allocated between transmission and distribution.

REVISED 2/20/97

Workpaper 1
Detail of PTF Transmission Plant as of 12/31/95

Category	Account	Description	Amount Added	Amount Retired	Total Plant Balance	PTF Percent	PTF Plant Balance
Flagg Pond							
	352	Structures and Improvements	$24,143.99	$0.00	$24,143.99	100%	$24,143.99
	353	Purchased from New England Power on 6/1/77	$1,272,305.18	$0.00	$1,272,305.18	100%	$1,272,305.18
	353	Transfer acquisition costs to acct 2-353-99	($84,274.29)	$0.00	($84,274.29)	100%	($84,274.29)
	353	Retire 2 600 amp OCB plus installation	$0.00	$21,975.62	($21,975.62)	100%	($21,975.62)
	353	Install 115kv breaker status for REMVEC	$14,556.40	$0.00	$14,556.40	100%	$14,556.40
	353	See F-2172	$937,758.94	$12,809.54	$924,949.40	100%	$924,949.40
	353	Install 2 1000w Lucalox Floodlights near control shack	$2,938.12	$0.00	$2,938.12	100%	$2,938.12
	353	Install Potential Transformers	$21,174.57	$0.00	$21,174.57	100%	$21,174.57
	353	Retire PT	$0.00	$4,628.41	($4,628.41)	100%	($4,628.41)
	353	Metering	$41,916.83	$0.00	$41,916.83	100%	$41,916.83
	353	Install #27 & #28 airbreak switch on #2 Feeder	$17,310.44	$0.00	$17,310.44	100%	$17,310.44
	353	Retire #27 & #28 airbreak switch on #2 Feeder	$0.00	$5,762.36	($5,762.36)	100%	($5,762.36)
	353	Adjust to above entry	$183.25	$0.00	$183.25	100%	$183.25
	353	Install PT on 02 Line	$8,435.83	$0.00	$8,435.83	100%	$8,435.83
	353	Retire PT on 02 Line	$0.00	$21,174.57	($21,174.57)	100%	($21,174.57)
	353	Install 2016 of 4/0 st bare copper	$1,868.89	$0.00	$1,868.89	100%	$1,868.89
	353	Install 50' of 2" PVC Pipe	$4,033.47	$0.00	$4,033.47	100%	$4,033.47
	353	785' of 4/0 st 600 volt	$0.00	$1,198.75	($1,198.75)	100%	($1,198.75)
	353	50' of 4/0 wire	$0.00	$31.55	($31.55)	100%	($31.55)
	353	760' of 4/0 hard drawn wire	$0.00	$1,310.88	($1,310.88)	100%	($1,310.88)
	353	50' of 4/0 wire	$0.00	$106.74	($106.74)	100%	($106.74)
	353	965' of 4/0 wire	$0.00	$2,876.75	($2,876.75)	100%	($2,876.75)
	353	50' of 2" PVC Pipe	$0.00	$164.50	($164.50)	100%	($164.50)
	353	GE 69kv Bushing in OCB s/n 0139A4928-201	$0.00	$14,231.56	($14,231.56)	100%	($14,231.56)
	353	69kv 1200amp bushing in OCB	$2,405.57	$0.00	$2,405.57	100%	$2,405.57
	353	Data Star Recorders	$3,780.00	$0.00	$3,780.00	100%	$3,780.00
	353	Installed Data Star Recorder Software Level #2	$750.00	$0.00	$750.00	100%	$750.00
	353	Payroll & overheads for above install	$1,014.38	$0.00	$1,014.38	100%	$1,014.38
	353	Recorder Tape System GE	$0.00	$5,300.00	($5,300.00)	100%	($5,300.00)
	353	Universal Mag Tape Cartridges	$0.00	$637.20	($637.20)	100%	($637.20)
	353	Watt/Var Transducer	$5,950.00	$0.00	$5,950.00	100%	$5,950.00
	353	Volt Transducer	$185.00	$0.00	$185.00	100%	$185.00
	353	Shipping & Handling	$34.92	$0.00	$34.92	100%	$34.92
	353	500' 4/C #12 AWG Control Cable	$1,142.10	$0.00	$1,142.10	100%	$1,142.10
	353	50' 1/2 watt precision resistors	$41.39	$0.00	$41.39	100%	$41.39
	353	350' T&B Stakon Terminals	$86.45	$0.00	$86.45	100%	$86.45
	353	69' Copper Wire	$10.35	$0.00	$10.35	100%	$10.35
	353	Cable Tie	$17.55	$0.00	$17.55	100%	$17.55
	353	Misc Parts	$52.76	$0.00	$52.76	100%	$52.76
	353	Labor for fixing recorder	$368.80	$0.00	$368.80	100%	$368.80
	353	Labor for wiring	$124.20	$0.00	$124.20	100%	$124.20
	353	Install GETEC Telemetering to REMVAC (Liabilities)	$422.31	$0.00	$422.31	100%	$422.31
	353	Overheads	$6,638.54	$0.00	$6,638.54	100%	$6,638.54
	353	Payroll	$8,030.61	$0.00	$8,030.61	100%	$8,030.61
	353	Bristol DPC 333010A computer	$4,230.71	$0.00	$4,230.71	100%	$4,230.71
	353	Bristol SLC 371140A Recorders	$5,771.41	$0.00	$5,771.41	100%	$5,771.41
	353	Bristol Power Supply	$515.05	$0.00	$515.05	100%	$515.05
	353	Labor to set up Bristol	$2,355.00	$0.00	$2,355.00	100%	$2,355.00
	353	Spare Interrupter Assembly for 115kv Circuit breaker	$9,512.00	$0.00	$9,512.00	100%	$9,512.00
	353	Retire Westinghouse auto transformer	$0.00	$152,101.77	($152,101.77)	100%	($152,101.77)
	353	Redesign Rewind & Rebuild 30/40/50 MVA West,	$0.00	$0.00	$0.00	100%	$0.00
	353	Auto Transformer s/n 34891 includes all charges	$514,480.75	$0.00	$514,480.75	100%	$514,480.75
	353	Purch used Auto Transformer 24/40 mva Magntek	$200,032.04	$0.00	$200,032.04	100%	$200,032.04
	353	Fused Disconnect	$0.00	$505.26	($505.26)	100%	($505.26)
	353	Replace Fused Disconnect	$434.21	$0.00	$434.21	100%	$434.21
	353	Install & purch EM-GRO Air Compressor	$1,273.97	$0.00	$1,273.97	100%	$1,273.97
	353	Install Deadend Structure 3-arrestors & 6-bushings	$30,233.66	$0.00	$30,233.66	100%	$30,233.66
	353	Construct 115 Kv facilities & connect spare transformer	$0.00	$0.00	$0.00	100%	$0.00
	353	in place of failed #1 autotrans.	$237,601.84	$0.00	$237,601.84	100%	$237,601.84
	353	Repair and rewind of 115-69 KV #1 Autotransformer	$0.00	$0.00	$0.00	100%	$0.00
	353	including uprating to a rated capacity of 60/80/100 MVA	$335,776.00	$0.00	$335,776.00	100%	$335,776.00
	353	Insurance Recovery less deductible of $25K	($321,696.66)	$0.00	($321,696.66)	100%	($321,696.66)
	353	Lightning arrestors, delivery and testing	$6,840.09	$0.00	$6,840.09	100%	$6,840.09
	Subtotal						$3,075,951.16
Summer Street - General							
	353	705' Chain Link Fence	$3,261.00	$0.00	$3,261.00	21.4% (1	$698.79
	353	159' Chain Link Fence	$1,150.43	$0.00	$1,150.43	21.4%	$246.52
	353	2 - Flood lights	$311.00	$0.00	$311.00	21.4%	$66.64
	353	Foundation for OCB	$1,661.00	$0.00	$1,661.00	21.4%	$355.93
	353	Foundation for Steel Structure	$2,545.00	$0.00	$2,545.00	21.4%	$545.36
	353	Foundation for Control House	$961.00	$0.00	$961.00	21.4%	$205.93
	353	Foundation for OCB	$777.00	$0.00	$777.00	21.4%	$166.50
	353	Conduit Connection installed	$509.00	$0.00	$509.00	21.4%	$109.07
	353	Control Panel	$2,992.00	$0.00	$2,992.00	21.4%	$641.14
	353	Termination for #08 Line	$1,303.00	$0.00	$1,303.00	21.4%	$279.21
	353	Overheads	$4,416.00	$0.00	$4,416.00	21.4%	$946.29
	353	Foundation	$1,652.00	$0.00	$1,652.00	21.4%	$354.00
	Subtotal						$4,615.38

Workpaper 1
Detail of PTF Transmission Plant as of 12/31/95

Category	Account	Description	Amount Added	Amount Retired	Total Plant Balance	PTF Percent	PTF Plant Balance
Summer Street - 69 kV Equipment							
	353	4 - Relay GE	$1,610.00	$0.00	$1,610.00	42.9% (2	$690.00
	353	6 - GE Potential Transformers	$1,592.00	$0.00	$1,592.00	42.9%	$682.29
	353	3 - Switches for Control Power	$164.00	$0.00	$164.00	42.9%	$70.29
	353	Conduit & Control Wiring	$5,751.00	$0.00	$5,751.00	42.9%	$2,464.71
	353	Conductors & Insulators	$804.00	$0.00	$804.00	42.9%	$344.57
	353	3 - GE 2500mva OCB	$37,901.00	$0.00	$37,901.00	42.9%	$16,243.29
	353	Steel Structure	$9,153.00	$0.00	$9,153.00	42.9%	$3,922.71
	353	Control House	$2,990.00	$0.00	$2,990.00	42.9%	$1,281.43
	353	Grounding	$894.00	$0.00	$894.00	42.9%	$383.14
	353	3 - Control Panels	$9,410.00	$0.00	$9,410.00	42.9%	$4,032.86
	353	Conduit & Wiring	$2,569.00	$0.00	$2,569.00	42.9%	$1,101.00
	353	Supervisory Equipment	$12,037.00	$0.00	$12,037.00	42.9%	$5,158.71
	353	Additional Charges	$3,325.00	$0.00	$3,325.00	42.9%	$1,425.00
	353	69kv Bus Insulators & Connectors	$5,763.00	$0.00	$5,763.00	42.9%	$2,469.86
	353	5 - 69kv 1200 amp TPST	$11,228.00	$0.00	$11,228.00	42.9%	$4,812.00
	353	23 - 69kv 600 amp Disconnect Switch	$7,682.00	$0.00	$7,682.00	42.9%	$3,292.29
	353	9 - 69kv Lightning Arrestors	$3,682.00	$0.00	$3,682.00	42.9%	$1,578.00
	353	3 - 69kv Capacitor Devices	$2,810.00	$0.00	$2,810.00	42.9%	$1,204.29
	353	2 - Underfrequency Relays	$2,249.00	$0.00	$2,249.00	42.9%	$963.86
	353	69kv Bus Insulators & Connectors	$7,183.90	$0.00	$7,183.90	42.9%	$3,078.81
	353	Steel Structure	$7,083.00	$0.00	$7,083.00	42.9%	$3,035.57
	353	Grounding	$538.00	$0.00	$538.00	42.9%	$230.57
	353	Control Panels	$9,067.00	$0.00	$9,067.00	42.9%	$3,885.86
	353	Conduit & Wiring	$875.00	$0.00	$875.00	42.9%	$375.00
	353	2 - 69kv Air Break Switches	$6,128.00	$0.00	$6,128.00	42.9%	$2,626.29
	353	9 - 69kv 600 amp Disconnect Switch	$4,037.00	$0.00	$4,037.00	42.9%	$1,730.14
	353	1 - 69kv OCB	$18,907.00	$0.00	$18,907.00	42.9%	$8,103.00
	353	6 - 69kv Lightning Arrestors	$4,362.00	$0.00	$4,362.00	42.9%	$1,869.43
	353	2 - 69kv OCB for #01 Line	$96,019.79	$0.00	$96,019.79	42.9%	$41,151.34
	353	Supervisory Control Recloser Indicator	$2,898.60	$0.00	$2,898.60	42.9%	$1,242.26
	353	Nominal Capacity Lead Antimony Battery	$1,943.92	$0.00	$1,943.92	42.9%	$833.11
	353	2 - Installed 69kv Bus Insulator	$785.20	$0.00	$785.20	42.9%	$336.51
	353	8 - Yuasa Epide batteries for DC Supply	$3,225.84	$0.00	$3,225.84	42.9%	$1,382.50
	Subtotal						$122,000.68
#01 & #02 Lines							
	356	02 Line	$34,547.61	$0.00	$34,547.61	100%	$34,547.61
	356	01 Line	$139,411.07	$0.00	$139,411.07	100%	$139,411.07
	356	02 Line shield wire 2 wires - 3 No. 6	$9,919.24	$0.00	$9,919.24	100%	$9,919.24
	356	01 Line shield wire 1 wire - 3 No. 6	$12,961.62	$0.00	$12,961.62	100%	$12,961.62
	Subtotal						$196,839.54
#01 & #02 Line Poles and Crossarms							
	355	02 Line poles and crossarms (See Workpaper A)	$221,574.99	$0.00	$221,574.99	100%	$221,574.99
	355	01 Line poles and crossarms (See Workpaper A)	$341,628.84	$0.00	$341,628.84	100%	$341,628.84
	Subtotal						$563,203.83
Land							
	350	Cost of Land purchased from New England Power Co.	$6,663.35	$0.00	$6,663.35	91% (3	$6,046.32
	350	Acquisition Costs for land at Flagg Pond & Beech St. Subs	$817.70	$0.00	$817.70	100%	$817.70
	350	Transmission Land #01, 02 & 06 Lines	$78,545.00	$0.00	$78,545.00	91%	$71,271.73
	350	Transmission ROW #01, 02 & 06 Lines	$144,391.00	$0.00	$144,391.00	91%	$131,020.39
	351	Clearing on Line #01 Flagg Pond to Summer St. S/S	$6,654.38	$0.00	$6,654.38	100%	$6,654.38
	351	Install gate at both ends of 01 & 02 tap	$1,381.92	$0.00	$1,381.92	100%	$1,381.92
	350	Off Summer St. Fitchburg	$4,797.00	$0.00	$4,797.00	91%	$4,352.80
	350	Crushed Stone for Summer St. S/S yard	$2,890.00	$0.00	$2,890.00	91%	$2,622.39
	350	Grading for Summer St. S/S	$528.00	$0.00	$528.00	91%	$479.11
	Subtotal						$224,646.74
Grand Total							$4,187,257.33

Notes: (1) Because Summer Street has 69 kV and 13.8 kV plant, Summer Street general plant was first allocated 50% between 13.8 kV and 69 kV. This plant was then allocated to PTF based upon the number of PTF breakers to total 69 kV breakers. (3 out of 7, or 42.9%). Thus, the total allocator = 50% times 42.9% = 21.42%

(2) Summer Street 69 kV plant was allocated to PTF based upon the number of PTF breakers to total 69 kV breakers. (3 out of 7, or 42.9%).

(3) The 01 & 02 Line ROW's are approximately 73.95 acres, and the 06 Line ROW is approximately 7.55 acres. The PTF percentage, 90.74% (73.95 / 81.50), is used to remove the 06 Line ROW.

The PTF plant balance was revised to remove the 06 Line costs and associated items in accordance with the NEPOOL Transmission Planning Committee's determination of includable items in PTF plant at its January 22, 1997 meeting.

The PTF plant balance was also modified to properly include items from plant accounts 352 and 355, and additional items from account 356.

REVISED 2/20/97

Workpaper A
Detail of PTF Transmission Plant as of 12/31/95
01 & 02 Transmission Line Costs (Account #355)

01 Line (In-service 1973)

Item	Total Items (#)	Total Cost of Items ($)	Cost Per Item ($)	01 Line Items (#)	01 Line Costs ($)
45 Ft Poles	7	$5,140.01	$734.29	2	$1,468.57
50 Ft Poles	18	$7,971.96	$442.89	4	$1,771.55
55 Ft Poles	18	$25,026.46	$1,390.36	13	$18,074.67
60 Ft Poles	42	$70,012.22	$1,666.96	22	$36,673.07
65 Ft Poles	47	$103,127.09	$2,194.19	16	$35,107.09
70 Ft Poles	39	$97,652.55	$2,503.91	19	$47,574.32
75 Ft Poles	30	$87,878.09	$2,929.27	11	$32,221.97
80 Ft Poles	5	$18,850.40	$3,770.08	5	$18,850.40
Subtotal:		$415,658.78			$191,741.63
Guys (1)		$44,427.86			$20,494.38
Crossarms (1)		$25,359.48			$11,698.22
Steel Poles & Foundations	14	$460,578.42	$32,898.46	3.5	$115,144.61
Stone & Webster Study (2)	14	$10,200.00	$728.57	3.5	$2,550.00
			TOTAL 01 COST		$341,628.84

02 Line (In-service 1969)

Item	Total Items (#)	Total Cost of Items ($)	Cost Per Item ($)	02 Line Items (#)	02 Line Costs ($)
45 Ft Poles	4	$4,554.46	$1,138.62	4	$4,554.46
50 Ft Poles	11	$10,624.28	$965.84	8	$7,726.75
55 Ft Poles	12	$11,046.00	$920.50	10	$9,205.00
60 Ft Poles	25	$22,927.38	$917.10	25	$22,927.38
65 Ft Poles	18	$14,004.00	$778.00	18	$14,004.00
70 Ft Poles	23	$20,062.24	$872.27	20	$17,445.43
75 Ft Poles	21	$21,576.50	$1,027.45	17	$17,466.69
80 Ft Poles	5	$5,562.00	$1,112.40	5	$5,562.00
Subtotal:		$110,356.86			$98,891.71
Guys		$4,821.02			$4,821.02
Crossarms		$167.66			$167.66
Steel Poles & Foundations	14	$460,578.42	$32,898.46	3.5	$115,144.61
Stone & Webster Study (2)	14	$10,200.00	$728.57	3.5	$2,550.00
			TOTAL 02 COST		$221,574.99

(1) 01 Line costs of Guys and Crossarms are determined based on the ratio of 01 Line pole costs to total pole costs.
(2) 01 & 02 Line Stone & Webster Study costs are determined based on the ratio of the applicable line's steel pole cost to the total steel pole cost.

WORKPAPER 2

Fitchburg Gas and Electric Light Company

1995 Cost of Capital

Pursuant to NEPOOL Open Access Transmission Tariff - ATTACHMENT F

	Amount Outstanding 12/31/95	*C.O.C.*	*Weight*	*Weighted Cost of Capital*
Common Stock Equity	34,047,706	11.50%	48.26%	5.550%
Preferred Stock	2,500,201	6.94%	3.54%	0.246%
Long Term Debt (include. due in 1 yr.)	34,000,000	7.60%	48.19%	3.662%
Total	70,547,907			9.46%

Common Equity

Common Stock	$22,629,147
Retained Earnings	12,927,532
Capital Stock Expense	(1,507,083)
Misc. Paid in Capital	(1,890)
Total	$34,047,706

Preferred Stock $100 Par

Series		*Amount Outstanding 12/31/95*	*Annual Issuance Expense*	*Annual Dividend Expense*	*Total Annual Cost*	*Effective Cost %*
5.125%		1,076,600	391	55,579	55,970	5.20%
8.00%		1,466,000	84	117,364	117,448	8.01%
		2,542,600	475	172,943	173,418	6.82%
Less: Capital Stock Expense	5.125%	13,301				
	8.00%	29,098				
	Subtotal	42,399				
Total		2,500,201				6.94%

Long Term Debt

Series		*Amount Outstanding 12/31/95*	*Annual Issuance Expense*	*Annual Interest Expense*	*Total Annual Cost*	*Effective Cost %*
12 year Notes,due March 31, 2004	8.55%	15,000,000	8,604	1,281,906	1,290,510	8.60%
30 Year Note, due Nov 30, 2023	6.75%	19,000,000	10,673	1,282,500	1,293,173	6.81%
Total		34,000,000	19,277	2,564,406	2,583,683	7.60%

Attachment 3 AG-5-6

1. Distribution Charges

Distribution charges will consist of customer, demand and energy charges as appropriate to recover the Company's distribution costs. The Seabrook Amortization Surcharge[1] and Energy Efficiency Surcharge[2] will be included in the total Distribution Charge for billing purposes. The distribution charges are based on the Company's March 3, 1997 Rate Unbundling Compliance filing in DPU 97-44 with one minor modification relating to the Energy Conservation Service rate component as discussed in the Unbundled Rate Design section below.

2. Transmission Charges

Transmission charges will be billed to customers separately via demand and/or energy based charges. The Internal Transmission component will be combined with the Internal Transmission Service Cost Adjustment and the External Transmission Charge for billing purposes. The Internal Transmission Cost Adjustment will recover on a fully reconciling basis: 1) the transmission charges applicable to retail customers under the Company's FERC-approved Open Access Transmission Tariff, 2) the Company's Pool Transmission Facilities revenue requirement as included in NEPOOL's Open Access Transmission Tariff, and 3) any charges or credits received from the New England Power Company related to FG&E's Pool Transmission Facilities. The External Transmission Charge will recover on a fully reconciling basis the FERC-approved billings to the Company associated with the Regional Transmission Group, an Independent System Operator or any other transmission provider and which the Company has authorization to recover from retail customers.

The Internal Transmission Cost Adjustment and the External Transmission Charge will be established annually based on the forecast of transmission costs, and will include a full reconciliation and adjustment for any over- or under-recoveries occurring in the prior year's adjustment. The initial Internal Transmission Charges are as filed on March 3, 1997 with one addition: The Internal Transmission Charges include a credit of $0.00107 per kWh attributable to revenues received from the New England Power Company pursuant to an agreement whereby

[1] The Seabrook Amortization Surcharge was approved by the Department in 1985 (D.P.U. 85-235). At that time, 40% of the Company's investment in Seabrook Unit I was written off, net sales proceeds were credited to customers, and the remaining balance set to be recovered with carrying charges, over a 30-year period as a surcharge on customers' bills.

[2] The Energy Efficiency Charge is equal to the sum of the mandated Energy Efficiency and Renewable Resources components specified pursuant to the Act.

New England Power compensates FG&E for its Pool Transmission Facilities. Prior to March 1, 1998, these revenues are flowed back to customers through the Electric Fuel Charge. Given that the cost of FG&E's internal transmission system, including Pool Transmission Facilities, is included in the Internal Transmission Charge, it is appropriate that any offsets to those costs be credited here. The calculation of the credit is provided on Exhibit 6, Page 13 of 13.

The development of the External Transmission Charge is provided in Exhibit 6, Page 12 of 13. The charge is developed by summing the annual Independent System Operator ("ISO") charges and the annual New England Power Company transmission charges and then dividing by the annual kWh for 1998. The proposed rate is $0.00394 per kWh. If a customer provides documentation that its Competitive Supplier is providing this service, the Company will credit the customer's bill for this amount.

3. Access Charges

Access Charges are designed to recover on a fully reconciling basis all of the Company's transition costs. The Access Charges will be identified separately for billing purposes under Delivery Service Charges and will be subject to adjustment under the Company's Access Cost Adjustment provision. The calculation of the initial Access Charges is discussed in the Unbundled Rate Design section below.

4. Standard Transition Service

Standard Transition Service will be available for all retail customers on the Retail Access Date. After the Retail Access Date, retail customers are free to leave Standard Transition Service at any time to purchase generation service from an alternative supplier. In general, once the retail customer has elected to receive service from an alternative supplier, the retail customer will not be allowed to return to Standard Transition Service. However, any residential customer eligible for low-income rates may return to Standard Transition Service at any time. Further, any customer choosing to opt out from an authorized municipal or group aggregation program within 180 days following adoption of the program is eligible to receive Standard Transition Service, if originally enrolled in the Company's Standard Transition Service.

The prices for Standard Transition Service are subject to adjustments as specified in the Standard Transition Service Tariff. The charges for Standard Transition Service will appear separately on retail customers' bills.

Attachment 4 AG-5-6

Fitchburg Gas and Electric Light Company
Residential Class
Development of Unbundled Prices

	Bundled Base Rates (1)	Unbundled Rates: Monthly Service Chg.	Transmission Charge	Distribution Charge	Access Charge Base Component
Rate R1 - Standard					
Monthly Service Charge	$3.00	$3.00			
All kWh	$0.06421		$0.00192	$0.03553	$0.02676
Rate R2 - Fuel Assistance (2)					
Monthly Service Charge	$1.80	$1.80			
All kWh	$0.03827		$0.00192	$0.02074	$0.01561
Rate R4 - Optional Time of Use					
Monthly Service Charge	$13.00	$13.00			
On Peak kWh	$0.12286		$0.00368	$0.06798	$0.05120
Off Peak kWh	$0.01049		$0.00031	$0.00581	$0.00437

(1) Base rates include the Supplemental Base Rate Reduction.

Rates are unbundled based on total company 1995 functionalized revenue requirement proportions shown below. Monthly service charges are directly assigned to the distribution component.

1995 Distribution Revenue Requirement	$ 12,850,474	
Less 1995 monthly service charge revenue	$ 876,599	
Net Distribution Revenue Requirement	$ 11,973,875	55.3%
1995 Transmission Revenue Requirement	$ 648,128	3.0%
1995 Access Base Revenue Requirement	$ 9,017,433	41.7%
Total.	$ 21,639,436	100.0%

(2) The Fuel Assistance Discount is not applied to the Transmission Charge. The Transmission Charge is therefore equal to the R1 rate for transmission. To achieve the same level of subsidies, the remainder of the base rate is unbundled based on the proportions shown below.

Net Distribution Revenue Requirement	$ 11,973,875	57.0%
1995 Access Base Revenue Requirement	$ 9,017,433	43.0%
Total	$ 20,991,308	100.0%

Fitchburg Gas and Electric Light Company
General Service Class
Development of Unbundled Prices

	Bundled Base Rates (1)	Unbundled Rates: Monthly Service Chg.	Transmission Charge	Distribution Charge	Access Charge Base Component
Rate G1 - Small Commercial					
Monthly Service Charge	$7.00	$7.00			
All kWh	$0.06312		$0.00189	$0.03493	$0.02630
Rate G2 - Large Commercial					
Monthly Service Charge	$0.00	$0.00			
All kWh	$0.02277		$0.00068	$0.01260	$0.00949
All kW	$9.53		$0.29	$5.27	$3.97
Rate G3 - Industrial					
Monthly Service Charge	$0.00	$0.00			
On Peak kWh	$0.02957		$0.00089	$0.01636	$0.01232
Off Peak kWh	$0.00667		$0.00020	$0.00369	$0.00278
All kVA	$7.11		$0.21	$3.94	$2.96
Rate G4 - Optional Time of Use (G2)					
Monthly Service Charge	$4.00	$4.00			
On Peak kWh	$0.03392		$0.00102	$0.01877	$0.01413
Off Peak kWh	$0.00750		$0.00022	$0.00415	$0.00313
On Peak kW	$11.76		$0.35	$6.51	$4.90
Off Peak kW	$0.00		$0.00	$0.00	$0.00
Rate G5 - Water/Space Heating					
Monthly Service Charge	$0.00	$0.00			
All kWh	$0.06065		$0.00182	$0.03356	$0.02527
Rate G6 - Optional Time of Use (G1)					
Monthly Service Charge	$11.00	$11.00			
On Peak kWh	$0.10041		$0.00301	$0.05556	$0.04184
Off Peak kWh	$0.01031		$0.00031	$0.00570	$0.00430

(1) Base rates include the Supplemental Base Rate Reduction.

Rates are unbundled based on total company 1995 functionalized revenue requirement proportions shown below. Monthly service charges are directly assigned to the distribution component.

1995 Distribution Revenue Requirement	$ 12,850,474	
Less 1995 monthly service charge revenue	$ 876,599	
Net Distribution Revenue Requirement	$ 11,973,875	55.3%
1995 Transmission Revenue Requirement	$ 648,128	3.0%
1995 Access Base Revenue Requirement	$ 9,017,433	41.7%
Total	$ 21,639,436	100.0%

Fitchburg Gas and Electric Light Company
Energy Bank Service
Development of Unbundled Prices

	Bundled Base Rates	Unbundled Rates: Monthly Service Chg.	Unbundled Rates: Transmission Charge	Unbundled Rates: Distribution Charge	Unbundled Rates: Access Charge
Rate EB - Energy Bank Service					
Monthly Service Charge	$2,000.00	$2,000.00			
All kWh (1)	$0.00118		$0.00000	($0.00592)	$0.00710
First 200 kVa	$0.00		$0.00	$0.00	$0.00
All kVa over 200 (2)	$10.00		$0.21	$9.79	$0.00

(1) The Access Charge for all kWh is the G3 Seabrook Amortization Surcharge, and the Distribution Charge is the remainder of the Base Rate.
(2) The Transmission Charge for all kVa over 200 is the G3 Transmission Demand Charge, and the Distribution Charge is the remainder of the Base Rate.

Fitchburg Gas and Electric Light Company
Outdoor Lighting Service
Development of Unbundled Prices

Rate S - Outdoor Lighting

Luminaire Charges:		Bundled Base Rates (1)	Unbundled Rates: Transmission Charge	Unbundled Rates: Distribution Charge	Unbundled Rates: Access Charge Base Component
Lamp Size Lumens	Type of Luminaire	Price per Luminaire Per Month			
Mercury Vapor:					
3,500	Residential and Commercial Type	$ 7.82	$ 0.23	$ 4.33	$ 3.26
7,000	Residential and Commercial Type	$ 9.17	$ 0.27	$ 5.08	$ 3.82
3,500	Street and Highway Type	$ 7.82	$ 0.23	$ 4.33	$ 3.26
7,000	Street and Highway Type	$ 9.17	$ 0.27	$ 5.08	$ 3.82
20,000	Street and Highway Type	$ 17.33	$ 0.52	$ 9.59	$ 7.22
60,000	Street and Highway Type	$ 34.49	$ 1.03	$ 19.09	$ 14.37
20,000	Flood Light Type	$ 18.80	$ 0.56	$ 10.41	$ 7.83
3,500	Power Bracket Included	$ 8.14	$ 0.24	$ 4.51	$ 3.39
7,000	Power Bracket Included	$ 9.68	$ 0.29	$ 5.36	$ 4.03
High Pressure Sodium:					
3,300	Residential and Commercial Type	$ 6.52	$ 0.20	$ 3.60	$ 2.72
9,500	Residential and Commercial Type	$ 8.11	$ 0.24	$ 4.49	$ 3.38
3,300	Street and Highway Type	$ 6.52	$ 0.20	$ 3.60	$ 2.72
9,500	Street and Highway Type	$ 8.11	$ 0.24	$ 4.49	$ 3.38
20,000	Street and Highway Type	$ 12.98	$ 0.39	$ 7.18	$ 5.41
50,000	Street and Highway Type	$ 18.83	$ 0.56	$ 10.42	$ 7.85
140,000	Street and Highway Type	$ 39.66	$ 1.19	$ 21.94	$ 16.53
50,000	Flood Light Type	$ 21.29	$ 0.64	$ 11.78	$ 8.87
Ornamental Lighting:					
3,300	Street and Highway Type	$ 5.31	$ 0.16	$ 2.94	$ 2.21
All kWh		($0.00064)	($0.00002)	($0.00035)	($0.00027)

(1) Base rates include the Supplemental Base Rate Reduction.

Rates are unbundled based on total company 1995 functionalized revenue requirement proportions shown below. Monthly service charges are directly assigned to the distribution component.

1995 Distribution Revenue Requirement	$ 12,850,474	
Less 1995 monthly service charge revenue	$ 876,599	
Net Distribution Revenue Requirement	$ 11,973,875	55.3%
1995 Transmission Revenue Requirement	$ 648,128	3.0%
1995 Access Base Revenue Requirement	$ 9,017,433	41.7%
Total	$ 21,639,436	100.0%

Attachment 5 AG-5-6

Fitchburg Gas and Electric Light Company
Rate Design - New England Power PTF Transmission Credit

Total Annual Charges *	-$601,919	/ yr
Ratio	83.3%	*Assumes #7 Turbine lease is not renewed in 11/98 (10/12 mos.)*
Total Net Annual Charges	-$501,599	/ yr
Estimated 98 kWh	467,263,305	kWh
	-$0.00107	/ kWh

Conversion to Demand rate at 80% l.f. and 100% p.f.

1	kWh
730	hours
0.0013699	kW
0.0017123	kW @ 80% l.f.
-0.6269	$/kW

* FG&E 1996 PTF Revenue Requirement pursuant to Agreement with New England Power.

Attachment 6 AG-5-6

Fitchburg Gas and Electric Light Company
Rate Design - External Transmission Charge

Estimated Incremental ISO Charges	$9,900	/ month
Number of Months	x 12	
Annual Cost	$118,800	
plus		
NEP Transmission Rate	$2.00	/ kW-Mo.
Estimated Avg. 98 monthly demand	x 71,800	kW
Number of Months	x 12	
Annual Cost	$1,723,200	
Total Annual Charges	$1,842,000	
Estimated 98 kWh	467,263,305	kWh
	$0.00394	/ kWh

Conversion to Demand rate at 80% l.f. and 100% p.f.

1	kWh
730	hours
0.0013699	kW
0.0017123	kW @ 80% l.f.
2.3022	$/kW, kVA