Attachment 1

Revised RNS and S&D Rates Effective June 1, 2014 – September 30, 2014

SUMMARY

ISO NE Transmission, Markets & Services Tariff OATT Regional Schedule 1 - Scheduling System Control and Dispatch Service Rate Effective June 1, 2014 - May 31, 2015

Revised 11/19/2014

1 Total of FERC account 561-561.4 (exclude ME, REMVEC, CONVEX /ESCC costs)	\$ 13,289,811	1
2 Less ISO & OATT Sch 1 costs included in above accounts	1,976,914	2
		1
3 Sub-total (1-2)	11,312,897	3
4 Amount allocated to transmission function	11,312,897	4
5 Transmission related S&D costs from SCADA or other systems	7,361,664	5
6 Sub-total (4+5)	18,674,561	6
7 PTF allocation factors (see page 2 for details)	79.3283%	7
8 Sub-total after applying PTF allocation factors (from page 2)	14,814,216	8
9 Maine LCC costs	3,436,400	9
10 REMVEC II costs	837,157	10
11 CONVEX costs	16,468,859	11
12 Sub-total (9+10+11)	20,742,416	12
13 100% allocated to transmission function	20,742,416	13
14 Revenues credited for short-term Transmission Service	(1,081,954)	14
15 Total transmission related system & dispatch revenue requirement (8+13+14)	34,474,677	15
16 12 month CP LOAD (kW) as defined in section 46.1 of the ISO-NE Tariff	20,910,580	16
17 Long Term Firm PTP Capacity (kW)	-	17
18 Scheduling System Control and Dispatch Service Rate (\$/kW-YR): (15/(16+17))	\$ 1.64867	18

								SO NE Transmi	esion Markets 8	Services Tariff										
							OATT Regional Sc													
Effective June 1, 2014 - May 31, 2015																				
Revised 11/19/14																				
1	-		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	
Customer #	DUNS	DUNS Name	Total of FERC acct 561 - 561.4 (exclude ME, REMVEC, CONVEX /ESCC costs)	Less Reg Sch 1 & ISO costs included in Column 1 accounts	Sub-total (1-2)	100% allocated to transmission function	Transmission related S&D costs from SCADA or other Local Control Centers	Sub-total (4+5)	PTF Allocation Factor		Maine LCC - PTF RELATED SCH 1 REV REQ'TS.	REMVEC II Costs	CONVEX/ESCC Costs	Sub-total (9+10+11)	100% allocated to transmission function	Revenues credited for short-term transmission service must be negative	TOTAL (8+13+14)		SCHEDULE 1 Revenue Allocation %	
														_						
5														<u>.</u>						L
5		Braintree Electric Light Department			-	-		-		-		8,574		8,574	8,574	(252)	8,322		0.02414%	
6		Central Maine Power Company			-						2,983,207			2,983,207	2,983,207	(121,142)	2,862,065		8.30193%	
2			884,601		884,601	884,601		884,601	73.3219%	648,606	304,736			304,736	304,736		953,342		2.76534%	
38		Fitchburg Gas and Electric Light Company	217,987	142,351	75,636	75,636		75,636	38.4016%	29,045		10,020		10,020	10,020	(354)	38,711		0.11229%	
45		Hudson Light & Power Department			-	-		-		-		6,151		6,151	6,151	(181)	5,970		0.01732%	
6		Maine Electric Power Company	1,083		1,083	1,083		1,083	100.0000%	1,083	148,457			148,457	148,457	(6,366)	143,174		0.41530%	
76		Massachusetts Municipal Wholesale Electric			-	-		-		-		59,778		59,778	59,778	(1,757)	58,021	7	0.16830%	
79		Middleborough Gas & Electric Department			-	-		-		-		2,719		2,719	2,719	(80)	2,639	8	0.00765%	Middleboro
81	00-695-2881	New England Power Company	6,731,357		6,731,357	6,731,357		6,731,357	71.4900%	4,812,247		729,439		729,439	729,439	(217,640)	5,324,045	9	15.44335%	NGRID
		Connecticut Light & Power Company	88,250		88,250	88,250		88,250	88.4217%	78,032			15,182,405	15,182,405	15,182,405	(449,780)	14,810,657	10	42.96097%	
		Public Service of New Hampshire	113,238		113,238	113,238		113,238	92.5652%	104,819			1,286,454	1,286,454	1,286,454	(38,874)	1,352,399	11	3.92288%	PSNH
		Western Massachusetts Electric Co.	35,608		35,608	35,608		35,608	93.2293%	33,197			-	-	-	(1,276)	31,921	12	0.09259%	WMECO
112	95-910-8929	Northeast Utilities	237,096	-	237,096	237,096		237,096		216,048			16,468,859	16,468,859	16,468,859	(489,930)	16,194,977	13	46.97644%	Total submitted by
3	00-695-1552	NSTAR Electric Company			-	-	7,361,664	7,361,664	86.9150%	6,398,390				-	-	(165,780)	6,232,610	14	18.07881%	NSTAR
148	86-703-4654	Reading Municipal Light Plant			-	-		-		-		9,020		9,020	9,020	(265)	8,755	15	0.02540%	Reading
153	04-661-6033	Taunton Municipal Light Plant			-	-		-		-		11,456		11,456	11,456	(337)	11,119	16	0.03225%	Taunton
181	00-691-7967	United Illuminating Company	1,852,139	1,834,563	17,576	17,576		17,576	89.0326%	15,648				-	-	(549)	15,099	17	0.04380%	UI
50853	78-039-9163	Vermont Transco LLC	3,365,548		3,365,548	3,365,548		3,365,548	80.0211%	2,693,149				-	-	(77,321)	2,615,828	18	7.58768%	VT Transco
		TOTALS	\$ 13,289,811	\$ 1.976.914	\$ 11.312.897	\$ 11,312,897	\$ 7.361.664	\$ 18,674,561	79.3283%	\$ 14.814.216	\$ 3,436,400	\$ 837,157	\$ 16.468.859	\$ 20.742.416	\$ 20,742,416	\$ (1.081.954)	\$ 34,474,677	19	100.00%	TOTALS
)		101120	ψ 10,200,011	÷ 1,570,314	\$ 11,012,001	÷ 11,012,037	φ 7,001,004	\$ 10,014,001	10.020078	φ 14,014,210	÷ 0,+00,400	φ 001,101	÷ 10,400,009	φ 20,1 +2,+10	÷ 20,1+2,410	φ (1,001,004)	φ 04,414,011		100.0078	

ISO NE Transmission, Marke	ts & Services Tariff										
OATT Regional Schedule 1 - Scheduling System Control and Dispatch Service Rate											
Effective June 1, 2014 -											
(Reflecting 2013 Schedule 1 Costs) Revised 11/19/2014											
		SCHEDULE 1									
COMPANY		DISTRIBUTION %									
Braintree Electric Light Department		0.02414%									
Central Maine Power Company		8.30193%									
Emera Maine		2.76534%									
Fitchburg Gas and Electric Light Company		0.11229%									
Hudson Light & Power Department		0.01732%									
Maine Electric Power Company		0.41530%									
Massachusetts Municipal Wholesale Electric		0.16830%									
Middleborough Gas & Electric Department		0.00765%									
New England Power Company		15.44335%									
Northeast Utilities		46.97644%									
NSTAR Electric Company		18.07881%									
Reading Municipal Light Plant		0.02540%									
Taunton Municipal Light Plant		0.03225%									
United Illuminating Company		0.04380%									
Vermont Transco LLC		7.58768%									
		100.000/									
	TOTAL =	100.00%									

PTO 2013 12 CP NETWORK LOADS

	2013
	Network
Local Networks	Load (MW)
Central Maine Power Co.	1,418.440
Emera Maine	254.663
Fitchburg Gas & Electric Light Co.	76.971
New England Power Co.	6,019.709
Northeast Utilities	7,235.546
NSTAR Electric Co.	4,339.080
The United Illuminating Co.	734.933
VT Transco LLC	831.238
Total	20,910.580

Long Term TOUT (MW)

PTO RNS Rates for 6/1/14 PRE 97 Post 96 **RNS** Rates for **RNS Rates** Delta **RNS** Rate **RNS** Rate June 1, 2014 previously in effect (Revised November 19, June 1, 2014 2014) \$351,555,970 Total NE Rev Req \$1,536,229,681 Total NE Loads - kW 20,910,580 20,910,580 Total NE RNS \$ / kW-yr. 16.81235 73.46662 90.27897 89.79639 0.48258

0

			PTO 2013 Rev Req				
			PTO Annual Input Data 2013 (Revised 11/				
				PTF Revenu	ie Re	equirements	
				Pre-1997		Post-1996	
	Customer #	DUNS #	DUNS Name	PTF		PTF	
				\$			
1	5	17-057-1897	Braintree Electric Light Department	\$ 144,673	\$	1,362,936	1
2	6		Central Maine Power Company	\$ 17,204,907	\$	234,358,293	2
3	7	11-468-3899	Chicopee Electric Light Department	\$ 26,708	\$	799,367	3
4	51386		Connecticut Transmission Municipal Electric	\$ 343,747	\$	8,917,213	4
5	2		Emera Maine	\$ 913,486	\$	50,353,845	5
6	38	00-695-4317	Fitchburg Gas & Electric Light Co.	\$ 162,815	\$	381,572	6
7	44		Holyoke Gas & Electric Department	\$ 1,169,086	\$	2,081,628	7
8	45	10-775-5126	Hudson Light & Power Department	\$ 204,065	\$	-	8
9	6	06-099-4258	Maine Electric Power Company	\$ 3,105,402	\$	1,714,115	9
10	76	07-172-4900	Massachusetts Municipal Wholesale Electric	\$ 807,579	\$	533,025	10
11	79	15-597-6665	Middleborough Gas & Electric Department	\$ 47,246	\$	902,712	11
12	81	00-695-2881	New England Power Company	\$171,890,583		\$184,685,097	12
13	51321	83-132-2677	New Hampshire Transmission, LLC	\$ 2,903,404	\$	16,175,338	13
14	112	95-910-8929	Northeast Utilities	\$ 66,148,984	\$	602,215,243	14
15	158	08-421-1572	Norwood Municipal Light Department	\$-	\$	2,563,775	15
16	3		NSTAR Electric Company	\$ 49,558,238	\$	190,933,064	16
17	148		Reading Municipal Light Plant	\$ (142,959)	\$	324,779	17
18	153		Taunton Municipal Light Plant	\$ (73,960)	\$	13,633	18
19	* 185	79-806-8342	Unitil Power Corp.	\$ 126,672	\$	-	19
20	181		United Illuminating Company	\$ 21,271,544	\$	94,937,914	20
21	50853		Vermont Transco LLC	\$ 12,474,570	\$	138,008,051	21
21	182		Vermont Electric Power Co, Inc.	\$ 3,191,043	\$	4,486,791	21
22	51310	01-013-9228	Wallingford Electric	\$ 78,137	\$	481,290	22
23			Total	\$351,555,970	\$	1,536,229,681	23
	* Revenue requi	rement amounts	indicate payments made to support PTF owned by other	Participants.			

Attachment 2

New England Power's Revised 2013 PTF Revenue Requirements

Sheet: Input Panel

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Submitted on:				
Revenue Requirements for (year):	Caler	idar Year 2013		
Rates Effective for the Period: Through:		lune 2014 tember 2014		
Customer:	New Engla	nd Power Company		
Customer's NABs Number:				
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:				
	July 31, 2014 Informa	ational Filing	Supplemental	Filing
	Pre-97 Revenue <u>Requirements</u>	Post-96 Revenue <u>Requirements</u>	Pre-97 Revenue <u>Requirements</u>	Post-96 Revenue <u>Requirements</u>
Total of Attachment F - Sections A through I	\$142,889,550 (a)	\$162,544,944 (f)	\$144,558,044 (a)	\$158,541,414 (f)
Total of Attachment F - Section J - Support Revenue	\$5,207,983 (b)	\$0 (g)	\$5,208,613 (b)	\$0 (g)
Total of Attachment F - Section K - Support Expense	\$713,765 (c)	\$0 (h)	\$697,433 (c)	\$0 (h)
Total of Attachment F - Section (L through O)	(\$322,516) (d)	(\$948,601) ()	(\$328,037) (d)	(\$926,350) ()
Sub Total - Sum (A through I) - J + K + (L through O)	\$138,072,817 (e)=(a)-(b)+(c)+(d)	\$161,596,343 (j)	\$139,718,827 (e)=(a)-(b)+(c)+(d)	\$157,615,064 (i)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A	\$54,717,557 (k)	N/A	\$55,865,456 (k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	\$26,359,418 (I)	(\$34,261,510) (m)	\$32,171,756 ()	(\$28,795,422) (m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$164,432,235 (n)=(e)+(l)	\$182,052,390 (0)=(j)+(k)+(m)	\$171,890,583 (n)=(e)+(l)	\$184,685,097 (o)=(j)+(k)+(m)
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirements & Post-96 Revenue Requirements Subtotals, Forecasted Revenue Requirements and True-ups (including interest)		346,484,625 (p) = (n) + (o)		\$356,575,680 (p) = (n) + (o)

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Shading denotes an input

Submitted on:	
Revenue Requirements for (year):	Calendar Year 2013
Rates Effective for the Period: Through:	June 2014 September 2014
Customer:	New England Power Company
Customer's NABs Number:	
Name of Participant responsible for customer's billing:	

DUNs number of Participant responsible for customer's billing:

	Pre-97 Revenue <u>Requirements</u>	Post-96 Revenue <u>Requirements</u>
Total of Attachment F - Sections A through I	\$144,558,044 (a)	\$158,541,414 (f)
Total of Attachment F - Section J - Support Revenue	\$5,208,613 (b)	\$0 (g)
Total of Attachment F - Section K - Support Expense	\$697,433 (c)	\$0 (h)
Total of Attachment F - Section (L through O)	(\$328,037) (d)	(\$926,350) (i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$139,718,827 (e)=(a)-(b)+(c)+(d)	\$157,615,064 (i)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A	\$55,865,456 (k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	\$32,171,756 ()	(\$28,795,422) (m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$171,890,583 (n)=(e)+(l)	\$184,685,097 (o)=(j)+(k)+(m)
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require		\$356,575,680 (p) = (n) + (o)

and True-ups (including interest)

PTF Revenue Requirements

New England Power Company Transmission Revenue Requirements of PTF Facilities 2013 True-up

	2013 True-up		
	-	PRE 97	POST 1996
I.	ANNUAL TRUE-UP PER ROE COMPLIANCE WITH FERC ROE ORDER		
1	Transmission Revenue Requirements (as billed)	\$112,563,456	\$194,752,964
2	True-up 2013 Actual Annual RR	\$139,718,827	\$157,615,064
3	(Over)/Under (Line 2 - Line 1)	\$27,155,371	(37,137,900)
4	Per Month (Line 3/12)	2,262,948	(3,094,825)
5	Total Rate Year (Over)/Under	\$27,155,371	\$ (37,137,900)

New England Power Company FERC Interest Calculation associated with Under / (Over) Transmission Revenue Requirements of PTF Facilities

	Undercollection/(Overcollection									
Pre 97		155,371								
Post 96	(\$37,137,900)									

(457,157,500)							
 Initial Billing Period	PRE 97 Balance	POST 1996 Balance	FERC Monthly Interest Rate	PRE 97 Interest	POST 1996 Interest		
June 2013	\$ 27,155,371	\$ (37,137,900)	0.27%	\$ 73,320	\$	(100,272)	
July 2013	27,228,691	(37,238,173)	0.28%	76,240		(104,267)	
August 2013	27,228,691	(37,238,173)	0.28%	76,240		(104,267)	
September 2013	27,228,691	(37,238,173)	0.27%	73,517		(100,543)	
October 2013	27,454,689	(37,547,250)	0.28%	76,873		(105,132)	
November 2013	27,454,689	(37,547,250)	0.27%	74,128		(101,378)	
December 2013	27,454,689	(37,547,250)	0.28%	76,873		(105,132)	
January 2014	27,682,563	(37,858,892)	0.28%	77,511		(106,005)	
February 2014	27,682,563	(37,858,892)	0.25%	69,206		(94,647)	
March 2014	27,682,563	(37,858,892)	0.28%	77,511		(106,005)	
April 2014	27,906,792	(38,165,549)	0.27%	75,348		(103,047)	
May 2014	27,906,792	(38,165,549)	0.28%	78,139		(106,864)	
	т	otal Interest		\$ 904,908	\$	(1,237,559)	
	Т	True-Up		27,155,371	\$	(37,137,900)	
	т	Total TU & Interest		\$ 28,060,279	\$	(38,375,459)	
		-2012 PTF True-up excludes interest)		4,111,477		9,580,037	
	Total Adjus	sted TU & Interest		\$ 32,171,756	\$	(28,795,422)	

Summary Changes in NEP PTF Revenue Requirements - for June 1, 2014 RNS Rate

			Re-Stated		As-Filed*						Retroactive Adj						
Applicable Rate Period		Pre-97	Post-96	Total		Pre-97		Post-96		Total		Pre-97		Post-96		Total	
June 1, 2009 - May 31, 2010	\$	83,053,527	\$ 87,620,328	\$ 170,673,856	\$	82,381,954	\$	87,489,083	\$	169,871,037	\$	671,573	\$	131,245	\$	802,819	
June 1, 2010 - May 31, 2011		83,690,440	109,207,445	192,897,885		82,941,498		105,284,991		188,226,488		748,942		3,922,454		4,671,396	
June 1, 2011 - May 31, 2012		82,045,420	118,624,471	200,669,891		81,629,570		114,618,878		196,248,449		415,850		4,005,593		4,421,443	
June 1, 2012 - May 31, 2013		95,332,395	128,174,379	223,506,775		94,530,102		128,435,692		222,965,794		802,293		(261,313)		540,980	
June 1, 2013 - May 31, 2014		113,374,092	141,428,102	254,802,193		111,901,274		139,646,043		251,547,317		1,472,818		1,782,058		3,254,876	
Totals	\$ -	457,495,875	\$ 585,054,724	\$ 1,042,550,599	\$	453,384,398	\$	575,474,687	\$	1,028,859,085	\$	4,111,477	\$	9,580,037	\$	13,691,514	

	PR	E-97 ATRR	Po	st-96 ATRR		
	b/f	adjustments	b/f	adjustments	Rev	rised w/ True Up
June 1, 2014 - Sept 30, 2014	\$	167,779,106	\$	175,105,060	\$	342,884,167
Plus Retroactive Ajustment		4,111,477		9,580,037		13,691,514
	\$	171,890,583	\$	184,685,097	\$	356,575,680

* In compliance with FERC Docket No. EL11-66, the ROE rate was reduced from 11.64% to 11.07% for the period October 01, 2011 - December 31, 2012, Revenue Requirement (RR) years 2011 and 2012 - Rate period June 2012 to May 2014. Since the FERC order was issued in calendar year 2014 after submission of RR years 2011 and 2012, the "As-Filed" RR should be construed as follows:

- RR year 2011 (Rate period June 1, 2012 - May 31, 2013) is pro-rated at: 4 mos (June 1, 2011 - Sept 30, 2011) @ 11.64% As-Filed, and 8 mos (Oct 1, 2011 - May 31, 2012) @ 11.07% FERC revised rate - not yet filed.

- RR year 2012 (Rate period June 1, 2013 - May 31, 2014) is pro-rated at: 7 mos (June 1, 2012 - Dec 31, 2012) @ 11.07% FERC revised rate - not yet filed, and 5 mos (Jan 1, 2013 - May 2013) @ 11.64% As-Filed.

See Worksheet 1 for details.

Rate period June 1, 2012 - May 31, 2013 (RR year 2011) is pro-rated as follows: 4 mos (June 1, 2011 - Sept 30, 2011) @ 11.64% As-Filed, and 8 mos (Oct 1, 2011 - May 31, 2012) @ 11.07% FERC revised rate - not yet filed.

	As-Filed: 11.64% ROE Rate					
	June 11 - Sept 11 Pro-rated for 4 mo					
	POST 1996	PRE 97 POST 1996				
1 Transmission Revenue Requirements	\$ 95,301,964 \$130,452,381	\$ 31,767,321 \$ 43,484,127				
2 Transmission Revenue Requirements: Re-Stated	96,102,185 130,198,129	32,034,062 43,399,376				
(Over)/Under Billing (Line 2 - Line 1)	\$ 800,222 \$ (254,252)	\$ 266,741 \$ (84,751)				

	FERC Order: 11.07% Revised ROE Rate						
	Oct 11 - May 12			Pro-rated for 8 mont			months
		PRE 97	POST 1996		PRE 97	I	POST 1996
1 Transmission Revenue Requirements	\$	94,144,172	\$127,427,347	\$	62,762,781	\$	84,951,565
2 Transmission Revenue Requirements: Re-Stated		94,947,500	127,162,504		63,298,334		84,775,003
(Over)/Under Billing (Line 2 - Line 1)	\$	803,329	\$ (264,843)	\$	535,553	\$	(176,562)

	Combined			
	PRE 97	POST 1996 Total		
1 Transmission Revenue Requirements: As-Filed & FERC Order	\$ 94,530,102	\$ 128,435,692 \$ 222,965,794		
2 Transmission Revenue Requirements: Re-Stated	95,332,395	128,174,379 223,506,775		
(Over)/Under Billing (Line 2 - Line 1)	\$ 802,293	\$ (261,313) \$ 540,980		

Rate period June 1, 2013 - May 31, 2014 (RR year 2012) is pro-rated as follows: 7 mos (June 1, 2012 - Dec 31, 2012) @ 11.07% FERC revised rate - not yet filed, and 5 mos (Jan 1, 2013 - May 2013) @ 11.64% As-Filed

	FERC Order: 11.07% Revised ROE Rate					
	June 12 - Dec 12 Pro-rated for 7 month			r 7 months		
	PRE 97	POST 1996	PRE 97	POST 1996		
1 Transmission Revenue Requirements 2 Transmission Revenue Requirements: Re-Stated	\$ 111,428,286 112.896.422	\$138,305,693 140,062,632	\$64,999,833.61 65,856,246	\$ 80,678,321 81,703,202		
(Over)/Under Billing (Line 2 - Line 1)	\$ 1,468,135		\$ 856,412	\$ 1,024,881		

	As-Filed: 11.64% ROE Rate					
	Jan 13 - May 13 Pro-rated for 5 months					
	PRE 97 POST 1996 PRE 97 POST 1996					
1 Transmission Revenue Requirements 2 Transmission Revenue Requirements: Re-Stated	\$ 112,563,456 \$141,522,533 \$46,901,440.08 \$ 58,967,722 114,042,830 143,339,759 47,517,846 59,724,900					
(Over)/Under Billing (Line 2 - Line 1)	\$ 1,479,373 \$ 1,817,226 \$ 616,406 \$ 757,177					

	Combined			
	PRE 97 POST 1996 To			
1 Transmission Revenue Requirements: As-Filed & FERC Order	\$111,901,274	\$ 139,646,043 \$ 251,547,317		
2 Transmission Revenue Requirements: Re-Stated	113,374,092	141,428,102 254,802,193		
(Over)/Under Billing (Line 2 - Line 1)	\$ 1,472,818	\$ 1,782,058 \$ 3,254,876		

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Shading denotes an input

Submitted on:				
Revenue Requirements for (year):		Calend	dar Year 2013	
Rates Effective for the Period: Through:			une 2014 ember 2014	
Customer:	New England P	ower Compa	any	
Customer's NABs Number:				
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:				
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$144,558,044	(a)	\$158,541,414	(f)
Total of Attachment F - Section J - Support Revenue	\$5,208,613	(b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$697,433	(c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$328,037)	(d)	(\$926,350)	(i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$139,718,827	(e)=(a)-(b)+(c)+(d)	\$157,615,064	())
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A		\$55,865,456	(k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	N/A	(1)	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$139,718,827	(n)=(e)+(l)	\$213,480,520	(0)=(j)+(k)
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest)			\$353,199,347	(p) = (n) +

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2013

POST-1996

		P03	1-1990		
	Sha	iding denotes an input			
			Attachment F		
	Ι.	INVESTMENT BASE	Reference	NEP	Reference
Line No.			Section:		
1		Transmission Plant	(A)(1)(a)	\$986,723,295	Worksheet 3, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$3,236,344	Worksheet 3, line 3 column 5
3		Plant Held For Future Use	(A)(1)(c)	\$542,157	Worksheet 3, line 5 column 5
4		Total Plant (Lines 1+2+3)		\$990,501,796	
5		Accumulated Depreciation	(A)(1)(d)	(\$209,979,240)	Worksheet 3, line 8 column 5
6		Accumulated Deferred Income Taxes	(A)(1)(e)	(\$223,376,635)	Worksheet 3, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(f)	\$102,169	Worksheet 3, line 12 column 5
8		Other Regulatory Assets	(A)(1)(g)	\$22,676,431	Worksheet 3, line 16 column 5
9		Net Investment (Line 4+5+6+7+8)	()()(3)	\$579,924,521	
				•••••,•=•,•=•	
10		Prepayments	(A)(1)(h)	\$140,767	Worksheet 3, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$1,861,480	Worksheet 3, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$4,911,504	Worksheet 3, line 25 column 5
13		NEEWS CWIP	(A)(1)(k)	\$15,340,495	Worksheet 3, line 26 column 5
10			(//)(1)(K)	ψ10,0+0,+00	Worksheet 5, nine 20 column 5
14		Total Investment Base (Line 9+10+11+12+13)		\$602,178,767	
14		Total investment base (Ene STIOTITIZETS)		\$002,170,707	
	١١.	REVENUE REQUIREMENTS			
		REVENUE REQUIREMENTS			
15		Investment Return and Income Taxes	(A)	\$80,450,478	Worksheet 2
16		Depreciation Expense	(A) (B)	\$21,116,358	Worksheet 4, line 3, column 5
17		Amortization of Loss on Reacquired Debt	(C)	\$47,186	Worksheet 4, line 4, column 5
18		Investment Tax Credit	(D)	(\$202,818)	Worksheet 4, line 5, column 5
19		Property Tax Expense	(E)	\$16,940,728	Worksheet 4, line 6, column 5
20		Payroll Tax Expense	(E) (F)	\$897,449	Worksheet 4, line 22, column 5
20		Operation & Maintenance Expense	(F) (G)	\$20,238,401	Worksheet 4, line 11, column 5
21		Administrative & General Expense	(G) (H)	\$19,053,632	Worksheet 4, line 21, column 5
22			()		
23 24		Transmission Related Integrated Facilities Charge	(1)	\$0 \$0	Attachment 4, line 6
		Transmission Support Revenue	(J)		Worksheet 6
25		Transmission Support Expense	(K)	\$0 \$0	Worksheet 6
26		Transmission Related Expense from Generators	(L)	\$0 \$0	
27		Transmission Related Taxes and Fees Charge	(M)	\$0	A.L. 1
28		Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$380,112)	Attachment 7
29		Transmission Rents Received from Electric Property	(O)	(\$546,238)	Attachment 6
00					
30		Total Revenue Requirements (Line 14 thru 28)		\$157,615,064	

New England Power Company Post 1996 Regional Network Service Revenue Requirement For Test Year Ended 12/31/2013

Shading denotes an input

		Attachment F	Forecasted	
ine No.	Description	Reference	Amount \$	Reference
1	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA)		\$ 41,123,368	Line 6
2	Forecasted Revenue Requirements for Forecasted Transmission CWIP		\$14,742,088	Line 9
3	Forecasted Transmission Revenue Requirements		\$ 55,865,456	Line 1 + Line 2
4	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA)	Appendix C iv	\$ 262,525,453	Project Detail
5	Carrying Charge Factor (CCF)	Appendix C vi	15.66453%	Line 20
6	Forecasted Revenue Requirements for FTPA		\$ 41,123,368	Line 4 * Line 5
7	Forecasted New England Power Company (NEP) NEEWS CWIP (FNCWIP)	Appendix C xiii	\$ 102,335,530	Project Detail
8	NEEWS NEP Cost of Capital Rate (NCOC)	Appendix C xiv	14.40564%	Worksheet 2, Cap Structure 12.89
9	Forecasted Revenue Requirements for FNCWIP		\$ 14,742,088	Line 7 * Line 8
	Derivation of Carrying Charge (CCF)			
10	Investment Return and Income Taxes	(A)	\$76,474,592	Worksheet 2, excluding NEEWS (
11	Depreciation Expense	(B)	21,116,358	Summary, Line 16
12	Amortization of Loss on Reacquired Debt	(C)	47,186	Summary, Line 17
13	Investment Tax Credit	(D)	(202,818)	Summary, Line 18
14	Property Tax Expense	(E)	16,940,728	Summary, Line 19
15	Payroll Tax Expense	(F)	897,449	Summary, Line 20
16	Operation & Maintenance Expense	(G)	20,238,401	Summary, Line 21
17	Administrative & General Expense	(H)	19,053,632	Summary, Line 22
18	Total Expenses (Lines 10 thru 17)		\$154,565,528	
19	PTF Transmission Plant	(A)(1)(a)	\$986,723,295	Summary, Line 1
20	Carrying Charge Factor (FTPA)		15.66453%	Line 18 / Line 19

New England Power Company Annual Revenue Requirements For Costs in 2013

Shading denotes an input

NEEWS Allocation Factor Plant Allocation Factor For Accumulated Deferred Income Taxes

Cost of Capital Rate=			LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY TOTAL INVESTMENT RETURN	CAPITALIZATION 12/31/2012 \$ 410,350,000 \$ 1,111,700 \$ 832,696,968 \$1,244,158,668	CAPITALIZATION RATIOS COST OF CAPITAL 32.98% 0.63% 0.09% 6.02% 1100.00% 11.64%	COST OF CAPITAL EQUITY PORTION 0.21% 0.01% 0.779% 7.79% 8.01% 7.80%
(a) Weighted Cost of Capital	=	0.0801				
(b) Federal Income Tax	= (<u>R.O.E. + (</u>	PTF Inv. Eq. AFUDC (Tax Credit + of Deprec. Exp.) /	PTF Inv. Base)	x Federal Income Tax Rate - Federal Income Tax Rate)
	= ((0.0780 +	(\$202,818) + \$798,777) /	\$602,178,767)	x 0.35 - 0.35)
	=	0.0425329				,
(c) State Income Tax	= (R.O.E. + (PTF Inv. Eq. AFUDC (Tax Credit + of Deprec. Exp.) /	PTF Inv. Base)	Federal Income Tax State Income Tax Rate)* State Income Tax Rate
	= (0.0780 +	(\$202,818) + \$798,777) /	\$602,178,767)	+ 0.0425329 - 0.059466)* 0.059466
(a)+(b)+(c) Cost of Capital Rate	=	0.0076834				,
		(PTF)				
INVESTMENT BASE		\$602,178,767	From Worksheet 1			
x Cost of Capital Rate		0.1303163				
= Investment Return and Income Taxe	S	\$78,473,709	To Worksheet 1			
INVESTMENT BASE (Excluding NEE)	VS CWIP)	\$586,838,272 0.1303163	From Worksheet 1			
= Investment Return and Income Taxe	s	\$76,474,592	To Worksheet 2			
Post 2003 PTF Investment Base w/ I Plant In-Service Accumulated Depreciation Accumulate Deferred Income Taxes Total Post-2003 Investment	ncremental 100 bps:	\$ 209,862,929 (44,104,898) (47,203,372) \$ 118,554,659	From Attachment 1 From Worksheets 5 & 7 From Worksheets 5 & 7 Calculated			
Incremental ROE: Federal Income Taxes: State Income Taxes: Cost of Capital Rate Incremental Return and Taxes on Post	1.009 -2003 PTF Investment	0.00360 0.00065 0.01094	Calculated Per Attachment F Per Attachment F			
NEEWS In-Service w/ Incremental 1 New England Power NEEWS In-Sen Accumulated Depreciation Accumulate Deferred Income Taxes Total New England Power NEEWS In	/ice	\$ 60,742,476 (12,765,586) (13,662,089) \$ 34,314,801	PowerPlant PTF 4 & 5 reports - PTF only From Worksheets 3 & 5 From Worksheets 3 & 5 Calculated			
Incremental ROE: Federal Income Taxes: State Income Taxes: Cost of Capital Rate Incremental Return and Taxes on NEE	1.25% WS PTF Investment	6 0.00837 0.00451 0.00081 0.01369 \$ 469,770	Calculated Per Attachment F Per Attachment F			
NEEWS in CWIP New England Power NEEWS In-Sen Accumulated Depreciation	vice	\$ 15,340,495 0	From Worksheets 3			
Accumulate Deferred Income Taxes Total New England Power NEEWS In	vestment	0 \$ 15,340,495	Calculated			
Incremental ROE: Federal Income Taxes: State Income Taxes: Cost of Capital Rate Incremental Return and Taxes on NEE	1.259 WS PTF Investment	6 0.00837 0.00451 0.00081 0.01369 \$ 210,011	Calculated Per Attachment F Per Attachment F			
NEEWS Allocation Factor Total Transmission Investme Total NEEWS In-Service - NI For Accumulated Depreciatio	P	\$1,868,987,087 \$60,742,476 3.2500%	Worksheet 5 Line 2 Plant Accounting Records			

Worksheet 5 Line 16

3.2500% 0.993561 3.2290%

New England Power Company Annual Revenue Requirements For Costs in 2013

Shading denotes an input

		CAPITALIZATION 12/31/2013 LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY \$ 410,350,000 \$ 1,111,700 \$ 832,696,968 TOTAL INVESTMENT RETURN \$ 1,244,158,668	CAPITALIZATION RATIOS COST OF CAPITAL 32.98% 0.63% 0.09% 6.02% 66.93% 12.89%	COST OF CAPITAL EQUITY PORTION 0.21% 0.01% 0.63% 8.63% 8.85% 8.64%
Cost of Capital Rate=				
(a) Weighted Cost of Capital	= 0.0885			
(b) Federal Income Tax	PTF Inv. = (Eq. AFUDC of Deprec. Exp.) / PTF Inv. Base)	x Federal Income Tax Rate) - Federal Income Tax Rate))
	= (0.0864 +((\$202,818) +	\$798,777) / \$602,178,767)	x 0.35)
	=0.0470560		- 0.55)
(c) State Income Tax	PTF Inv. = (R.O.E. + ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) / PTF Inv. Base)	+ Federal Income Tax)* State Income Tax Rate
(c) State income Tax	$= \left(\begin{array}{c} 1 \\ 1 \end{array} \right)$	or Deprec. Exp.) / PTP Inv. Base)	- State Income Tax Rate) State income fax Rate
	= (\$798,777) / \$602,178,767)	+ 0.0470560)* 0.059466
	(1		- 0.059466)
	= 0.0085004			

(a)+(b)+(c) Cost of Capital Rate

=

_

0.1440564

PTF Revenue Requirements Worksheet 3 of 6

Shading denotes an input

New England Power Company

	Shading denotes an input		(2) Wage/Plant	(3) = (1)*(2)	(4) PTF	(5) = (3)*(4)	
Line No.		(1) Total	Allocation Factors	Transmission Allocated	Allocation Factor (b)	PTF Allocated	Source Reference for Col (1)
1	Transmission Plant					\$986,723,295	Attachment 1, Page 1
2 3	Less: Plant Assoc. HVDC Leases General Plant	\$ 6,142,337	99.8004% (a)	\$6,130,077	52.7945% (b)	\$0 \$3.236.344	Attachment 2 FERC Form 1 page 207.99g
4	Total (line 1+2+ 3)	\$ 0,142,337	99.8004% (a)	\$6,130,077 \$6,130,077	52.7945% (D)	\$3,236,344 \$989,959,639	FERC Form 1 page 207.99g
5	Transmission Plant Held for Future Use	\$ 1,026,919		\$1,026,919	52.7945% (b)_	\$542,157	FERC Form 1 page 214.2d,4d,9d
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	\$ (392,787,258)	00 000 404 4 1	(\$392,787,258)	52.7945% (b)	(\$207,370,069)	FERC Form 1 page 219.25b
7 8	General Plant Accumulated Depreciation Total (line 6+ 7)	\$ (4,952,011)	99.8004% (a)	(\$4,942,127) (\$397,729,385)	52.7945% (b)	(\$2,609,171) (\$209,979,240)	FERC Form 1 Page 219.28b
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	\$ (474,541,945)		(\$471,486,369)	52.7945% (b)	(\$248,918,871)	FERC Form 1 page 113.62-64
10	Accumulated Deferred Taxes (190)	\$ 48,694,028	99.3561% (c)		52.7945% (b)	\$25,542,236	FERC Form 1 page 111.82
11	Total (line 9+ 10)			(\$423,105,882)	=	(\$223,376,635)	
12	Transmission Loss on Reacquired Debt	\$ 193,522	100.0000%	\$193,522	52.7945% (b)	\$102,169	FERC Form 1 Page 111.81c
10	Other Regulatory Assets	0	00 000 10((.)	•••	50 70 450((1))	* 0	
13 14	FAS 106 FAS 109 (Asset Account 182.3)	\$ - \$ 42,952,261	99.8004% (a) 100.0000%	\$0 \$42,952,261	52.7945% (b) 52.7945% (b)	\$0 \$22,676,431	FERC Form 1 Page 232.8f FERC Form 1 Page 232.6f
15	FAS 109 (Liability Account 254)	\$ 42,952,201 \$ -	100.0000%	\$0	52.7945% (b)	\$22,070,431	FERC Form 1 Page 278
16	Total (line 13+14+ 15)	\$42,952,261		\$42,952,261	=	\$22,676,431	
17	Transmission Prepayments	\$ 267,164	99.8004% (a)	\$266,631	52.7945% (b)	\$140,767	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$ 3,525,898		\$3,525,898	52.7945% (b)	\$1,861,480	FERC Form 1 Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$20,238,401	Worksheet 1, Line 20
21	Administrative & General Expense					\$19,053,632	Worksheet 1, Line 21
22 23	Transmission Support Expense Subtotal (line 20+21+22)				-	\$0 \$39,292,033	Worksheet 8
23						0.1250	x 45 / 360
25	Total (line 23 * line 24)				-	\$4,911,504	
26	NEEWS CWIP	\$ 15,340,495				\$15,340,495	Plant Accounting Records

(a) Worksheet 5 Line 11 (b) Worksheet 5 Line 3 (c) Worksheet 5 Line 16

PTF Revenue Requirements Worksheet 4 of 6

Shading denotes an input

New England Power Company

Line No.	Depreciation Expense	(1) Total (g)		(3) = (1)*(2) Transmission Allocated	PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference for Col (1)
1	Transmission Depreciation	\$39,663,532		\$39,663,532	52.7945%	\$20,940,163	FERC Form 1 Page 336.7b
2	General Depreciation	\$334,405	99.8004% (a)	\$333,738	52.7945%	\$176,195	FERC Form 1 Page 336.10b
3	Total (line 1+2)			\$39,997,270		\$21,116,358	
4	Amortization of Loss on Reacquired Debt	\$89,376		\$89,376	52.7945%	\$47,186	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$384,165)		(\$384,165)	52.7945%	(\$202,818)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$32,088,055	=	\$32,088,055	52.7945%	\$16,940,728	Property Tax - Footnote (e)
	Transmission Operation and Maintenance						
7	Operation and Maintenance	\$61,559,182		\$61,559,182	52.7945%	\$32,499,862	FERC Form 1 Page 321.112b
8	Transmission of Electricity by Others - #565	\$14,396,724		\$14,396,724	52.7945%	\$7,600,678	FERC Form 1 Page 321.96b
9 10	Load Dispatching - #561 (excl #561.3) ** Station Expenses & Rents - #562 & #567	\$8,828,161 \$0		\$8,828,161	52.7945%	\$4,660,783 \$0	FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
10	O&M less lines 8, 9 & 10	\$38,334,297		\$38,334,297	52.7945%	\$20,238,401	FERC FUIII I Page 321.930 & .960
12 13 14 15 16	Transmission Administrative and General Total Administrative and General Less: Regulatory Commission Expenses (#928) Less: Regulatory Commission Expenses (#928) Less: General Advertising Expense (#920.1) Subtotal [line 12 minus (13 thru 15)]	\$36,234,131 \$904,273 \$2,575,980 \$0 \$32,753,878	— 99.8004% (a)	\$32,688,501	52.7945%	\$17,257,731	FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b
17	Plus: Property Insurance Allocated using Plant Allocation	\$904,273	99.3561% (c)	\$898,450	52.7945%	\$474,332	Line 13
18	Plus: Regulatory Commission Expense	\$2,418,553	99.3561% (c)	\$2,402,980	52.7945%	\$1,268,641	Attachment 5 Line 6
19	Plus: Specifically identifed Trans. Related General Advertising Expense	\$0		\$0	52.7945%	\$0	Line 15
20	Plus: Specifically identified Trans. Related Regulatory Expense	\$100,454	99.8004% (a)	\$100,253	52.7945%	\$52,928	2013 FERC Form1 Page 350.15d
21	Total A&G [line 16 + (17 thru 20)]	\$36,177,158	=	\$36,090,184		\$19,053,632	
22	Payroll Tax Expense	\$1,703,290	99.8004% (a)	\$1,699,890	52.7945%	\$897,449	FERC Form 1 Page 263.3,4i - Footnote (d)
	(d) Payroll taxes - G/L 408.1		(e) <u>P</u>	Property Taxes			
	Payroll Taxes Total	\$1,703,290 \$1,703,290	N V M R	Aassachusetts Jew Hampshire /ermont Aaine Rhode Island Connecticut	\$27,570,229 \$3,190,388 \$1,178,548 \$0 \$148,889 \$0 \$32,088,055		

(a) Worksheet 5, Line 11
(b) Worksheet 5, Line 3
(c) Worksheet 5, Line 16
(d) Transmission Only - Payroll Taxes - General Ledger query
(e) Transmission Only - Property Taxes - Stephen Adams, Property Taxes
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Shading denotes an input

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1	PTF Transmission Investment	\$986,723,295	Attachment 1, Page 1
2	Total Transmission Investment	\$1,868,987,087	FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	52.7945%	
	Transmission Wages and Salaries Allocation Factor		
4	Direct Transmission Wages and Salaries	\$0	FERC Form 1 Page 354.14b
5	Affiliated Company Transmission Wages and Salaries	\$18,057,103	General Ledger Query
6	Total Transmission Wages and Salaries (Line 4 + Line 5)	\$18,057,103	
7	Total Wages and Salaries	\$0	FERC Form 1 Page 354.28b
8	Administrative and General Wages and Salaries	\$0	FERC Form 1 Page 354.27b
9	Affiliated Company Wages and Salaries less A&G	\$18,093,209	General Ledger Query
10	Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$18,093,209	
11	Percent Allocation (Line 6/Line 10)	99.8004%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,868,987,087	Line 2
13	plus Transmission-Related General Plant (Line 2 of Wkst. 3)	\$6,130,077	Worksheet 5, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,875,117,164	
15	Total Plant in Service	\$1,887,269,647	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.3561%	
	Post-2003 PTF Allocation Factor		
17	Total Post-2003 PTF Investment	\$ 209,862,929	Attachment 1 Line 7
18	Total Transmission Investment	\$1,868,987,087	Line 2
19	Percent Allocation (Line 17/Line 18) for Post-2003 to Total Tx	11.2287%	
20	Total Invst in Tx Plant/Total Plant in Serv *		
21	Post-2003 PTF Tx Plant/Total Invst in Tx Plant	11.1564%	Line 19 * Line 16

New England Power Company Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2013

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			тот	AL
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses
			(a)	(b)
NSTAR	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$0
	Bell Rock Road	Page 330.5 Line 12 Col (n)	\$0	
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabroo	Page 330.1 Line 8 Col (n)	\$0	
NU	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5 Col (n)	\$0	
NEP	Chester SVC	Transmission Billing		\$C
	HQ Phase II - AC in MA	Page 330 Line 11 Col (n)	\$0	
VT Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12 Col (n)	\$0	
		Totals	\$0	\$0

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 22, Column 5)

\$0

New England Power Company 2013 Informational Filing PTF Plant Allocation

			_	Percent Pre/Post
1	2012	Pre-1997 PTF Transmission Plant	\$352,959,991	
2	2012	Post-1996 PTF Transmission Plant	\$918,015,798	
3	2013	Additions/Retirements	\$65,163,152	
4	2013	Pre-1997 PTF Transmission Plant	\$349,415,646	26.15%
5	2013	Post-1996 PTF Transmission Plant	\$986,723,295	73.85%
6	2013	Total PTF Transmission Plant	\$1,336,138,941	100.00%
7	2013	Post-2003 PTF Transmission Plant	\$209,862,929	

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5
- 7 PTF Plant Report: Post 2003 RSP Projects

GROSS PLANT ASSOC. WITH HVDC LEASES 2013

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$0
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	0 0 0%
5	Total Gross Plant leased by NHH (a)	\$0
6	Total Land from Sandy Pond to New Hampshire	\$0
7	HVDC lines occupy 35% of Right of Way	0%
8	Total Land leased by NEH (a)	\$0
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$0

Source:

- 1 FERC Form 1, Page 423.1, Lines 5 + 16
- 2 Total miles used per lease agreement
- 3 Total miles per lease agreement
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)".

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2013</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,515,488
2	Less: Specifically identified Transmission-Related	
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission	\$9,664
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	2010 Transmission	\$79,948
	2011 Transmission	\$155,706
	2012 Transmission	\$210,246
	2013 Transmission	\$169,241
		\$1,128,113
3	Total unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.3561%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,881
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$1,128,113</u>
7	Total Transmission-Related Equity AFUDC	\$1,512,994
8	Post-96 PTF Allocation Factor	52.7945%
9	Transmission-Related Equity AFUDC	\$798,777

Sources:

- 1 & 2 Transmission Rates includes \$9,668 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 6 Post-96 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2013</u>	MECO <u>2013</u>
1	Total Integrated Facilities Charges	\$0	\$0
2	Total 2013 PTF Property	\$0	\$0
3	Total Transmission Plant in 2013	\$0	\$0
4	NECO or MECO PTF Plant Allocator	0.00%	0.00%
5	PTF Related Integrated Facilities Charge	\$0	\$0
6	Total Integrated Facilities	_	\$0

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2013 Regulatory Commission Expense

Line <u>No.</u>		<u>2013</u>	<u>Source</u>
1	Total Regulatory Commission Expense - NEP	\$2,575,980	2013 FERC Form1 Page 350.46d (page
2	Less: New Hampshire PUC Assessment	\$56,973	2013 FERC Form1 Page 350.1d
3	Less: Mass Emergency Fund	\$0	2013 FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$0	2013 FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$100,454</mark>	2013 FERC Form1 Page 350.15d
6	Total Federal Assessments	\$2,418,553	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property

New England Power Company

	<u>2013</u>
Revenues	\$1,034,650
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,034,650
PTF Allocation	52.7945%
Total PTF Revenue	\$546,238

Source:

Revenues: SAP account C4540000, C454000W, C4545000

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2013</u>
Revenues	\$514,715
Post-96 PTF Percent	73.8489%
Total Post-96 PTF Revenue	\$380,112

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Shading denotes an input

Submitted on:			
Revenue Requirements for (year):		Calendar Year 2013	;
Rates Effective for the Period: Through:		June 2014 September 2014	
Customer:	New England Powe	er Company	
Customer's NABs Number:			
Name of Participant responsible for customer's billing:			
DUNs number of Participant responsible for customer's billing:			
	Pre-97 Revenue <u>Requirements</u>	Post-96 Rev <u>Requireme</u>	
Total of Attachment F - Sections A through I	\$144,558,044 (a)	\$158,541	1,414 (f)
Total of Attachment F - Section J - Support Revenue	\$5,208,613 (b)		\$0 (g)
Total of Attachment F - Section K - Support Expense	\$697,433 (c)		\$0 (h)
Total of Attachment F - Section (L through O)	(\$328,037) (d)	(\$926	6, <mark>350)</mark> ()
Sub Total - Sum (A through I) - J + K + (L through O)	\$139,718,827 (e)=(a))-(b)+(c)+(d) \$157,615	5,064 ₍₎
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A	\$55,865,4	- 56 (k)
Annual True-up (per Attachment C to Attachment F Im[plementation Rule]	N/A ()	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$139,718,827 (n)=(e)	\$213,480),520 (0)=
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement and Post-96 Revenue Requirements Subtotals for rate calculations unde		\$353,199	9,347 (p) =

Worksheet 1 of 6

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2013

PRE-1997

Shading denotes an input

		Attachment F		
	I. INVESTMENT BASE	Reference	NEP	Reference
Line No.		Section:		
1	Transmission Plant	(A)(1)(a)	\$335,700,109	Worksheet 3, line 1&2 column 5
2	General Plant	(A)(1)(b)	\$1,146,049	Worksheet 3, line 3 column 5
3	Plant Held For Future Use	(A)(1)(c)	\$191,988	Worksheet 3, line 5 column 5
4	Total Plant (Lines 1+2+3)		\$337,038,146	
5	Accumulated Depreciation	(A)(1)(d)	(\$74,357,497)	Worksheet 3, line 8 column 5
6	Accumulated Deferred Income Taxes	(A)(1)(e)	(\$79,101,760)	Worksheet 3, line 11 column 5
7	Loss On Reacquired Debt	(A)(1)(f)	\$36,180	Worksheet 3, line 12 column 5
8	Other Regulatory Assets	(A)(1)(g)	\$8,030,140	Worksheet 3, line 16 column 5
9	Net Investment (Line 4+5+6+7+8)		\$191,645,209	
10	Prepayments	(A)(1)(h)	\$49,848	Worksheet 3, line 17 column 5
11	Materials & Supplies	(A)(1)(i)	\$659,184	Worksheet 3, line 18 column 5
12	Cash Working Capital	(A)(1)(j)	\$1,739,254	Worksheet 3, line 25 column 5
13	Total Investment Base (Line 9+10+11+12)		\$194,093,495	

II. <u>REVENUE REQUIREMENTS</u>

14	Investment Return and Income Taxes	(A)	\$25,305,599	Worksheet 2
15	Depreciation Expense	(B)	\$7,477,690	Worksheet 4, line 3, column 5
16	Amortization of Loss on Reacquired Debt	(C)	\$16,709	Worksheet 4, line 4, column 5
17	Investment Tax Credit	(D)	(\$71,822)	Worksheet 4, line 5, column 5
18	Property Tax Expense	(E)	\$5,999,022	Worksheet 4, line 6, column 5
19	Payroll Tax Expense	(F)	\$317,803	Worksheet 4, line 22, column 5
20	Operation & Maintenance Expense	(G)	\$7,166,788	Worksheet 4, line 11, column 5
21	Administrative & General Expense	(H)	\$6,747,241	Worksheet 4, line 21, column 5
22	Transmission Related Integrated Facilities Charge	(I)	\$91,599,014	Attachment 4, line 6
23	Transmission Support Revenue	(J)	(\$5,208,613)	Worksheet 6
24	Transmission Support Expense	(K)	\$697,433	Worksheet 6
25	Transmission Related Expense from Generators	(L)	\$0	
26	Transmission Related Taxes and Fees Charge	(M)	\$0	
27	Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$134,604)	Attachment 7
28	Transmission Rents Received from Electric Property	(O)	(\$193,433)	Attachment 6
29	Total Revenue Requirements (Line 14 thru 28)		\$139,718,827	

New England Power Company Annual Revenue Requirements For Costs in 2013

Shading denotes an input

	CA	APITALIZATION 12/31/2013	CAPITALIZATION RATIOS	COST OF CAPITAL	COST OF CAPITAL	EQUITY PORTION
LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY	<mark>\$ \$ \$</mark>	410,350,000 1,111,700 832,696,968	32.98% 0.09% 66.93%	0.63% 6.02% 11.64%	0.21% 0.01% 7.79%	0.01% 7.79%
TOTAL INVESTMENT RETURN		\$1,244,158,668	100.00%		8.01%	7.80%

Cost of Capital Rate=

(a) Weighted Cost of Capital	=	0.0801							
(b) Federal Income Tax	= ((<u>R.O.E. +</u> (1	PTF Inv. ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x -	Federal Income Tax Rate Federal Income Tax Rate)	
	= ((<u>0.0780</u> + (1	((\$71,822) +	\$282,862) /	\$194,093,495) x	0.35 0.35)	
	=	0.0425855							
(c) State Income Tax	= ((<u>R.O.E. +</u>	PTF Inv. ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	+	Federal Income Tax State Income Tax Rate)*	State Income Tax Rate
	= ((1 (((\$71,822) +	\$282,862) /	\$194,093,495	-	0.0425855)*	0.059466
	=	(1 0.0076929				-	0.059466)	
(a)+(b)+(c) Cost of Capital Rate	=	0.1303784							
		(PTF)							
INVESTMENT BASE		\$194,093,495	From Worksheet 1						
x Cost of Capital Rate		0.1303784							
= Investment Return and Income Taxes	s	\$25,305,599	To Worksheet 1						

PTF Revenue Requirements Worksheet 3 of 6

x 45 / 360

0.1250

\$1,739,254

			New England Power Company		WORKSHEEL 3 OF 0
Line No.	Shading denotes an input	(1) Total	(2) Wage/Plant (3) = (1)*(2) Allocation Transmission Factors Allocated	(4) PTF $(5) = (3)^*(4)$ Allocation PTF Factor (b) Allocated	Source Reference
1 2 3 4	Transmission Plant Less: Plant Assoc. HVDC Leases General Plant Total (line 1+2+ 3)	\$ 6,142,337	99.8004% (a) <u>\$6,130,077</u> <u>\$6,130,077</u>		Attachment 1, Page 1 Attachment 2 FERC Form 1 Page 207.99g
5	Transmission Plant Held for Future Use	\$ 1,026,919	\$1,026,919	18.6955% (b) <u>\$191,988</u>	FERC Form 1 page 214.2d,4d,9d
6 7 8	Transmission Accumulated Depreciation Transmission Accumulated Depreciation General Plant Accumulated Depreciation Total (line 6+ 7)	\$ (392,787,258) \$ (4,952,011)	(\$392,787,258) 99.8004% (a) <u>(\$4,942,127)</u> (\$397,729,385)) 18.6955% (b) (\$923,955)	FERC Form 1 page 219.25b FERC Form 1 Page 219.28b
9 10 11	Transmission Accumulated Deferred Taxes Accumulated Deferred Taxes (281-283) Accumulated Deferred Taxes (190) Total (line 9+ 10)	\$ (474,541,945) \$ 48,694,028	99.3561% (c) (\$471,486,369) 99.3561% (c) \$48,380,487 (\$423,105,882)	18.6955% (b) \$9,044,974	FERC Form 1 Page 113.62-64 FERC Form 1 Page 111.82
12	Transmission Loss on Reacquired Debt	\$ 193,522	100.0000% \$193,522	18.6955% (b) <u>\$36,180</u>	FERC Form 1 Page 111.81c
13 14 15 16	Other Regulatory Assets FAS 106 FAS 109 (Asset Account 182.3) FAS 109 (Liability Account 254) Total (line 13+14+ 15)	\$ 42,952,261 \$ 42,952,261 \$ 42,952,261	99.8004% (a) \$0 100.0000% \$42,952,261 100.0000% \$0 \$42,952,261	18.6955% (b) \$8,030,140 18.6955% (b) \$0	FERC Form 1 Page 232.8f FERC Form 1 Page 232.6f FERC Form 1 Page 278
17	Transmission Prepayments	\$ 267,164	99.8004% (a) \$266,631	18.6955% (b) <u>\$49,848</u>	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$ 3,525,898	\$3,525,898	18.6955% (b)\$659,184	FERC Form 1 Page 227.8c
19 20 21 22 23	<u>Cash Working Capital</u> Operation & Maintenance Expense Administrative & General Expense Transmission Support Expense Subtotal (line 20+21+22)			\$7,166,788 \$6,747,241 <u>\$0</u> \$13,914,029	Worksheet 1, Line 20 Worksheet 1, Line 21 Worksheet 6

24

25 Total (line 23 * line 24)

(a) Worksheet 5 Line 11

(b) Worksheet 5 Line 3

(c) Worksheet 5 Line 16

PTF Revenue Requirements Worksheet 4 of 6

New England Power Company

			New Englan	d Power Company			
Line	Shading denotes an input	(1)	(2) Wage/Plant Allocation	(3) = (1)*(2) Transmission	(4) PTF Allocation	(5) = (3)*(4) PTF	
No.		Total	Factors	Allocated	Factor (b)	Allocated	Source Reference for Col (1)
1 2 3	Depreciation Expense Transmission Depreciation General Depreciation	\$39,663,532 \$334,405	99.8004% (a)	\$39,663,532 <u>\$333,738</u> \$39,997,270	18.6955% (b) 18.6955% (b)	\$7,415,296 \$62,394	FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
3	Amortization of Loss on Reacquired Debt	\$89,376	100.0000%	\$39,997,270	- 18.6955% (b)	\$7,477,690 \$16,709	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$384,165)	100.0000%	(\$384,165)	= 18.6955% (b)	(\$71,822)	FERC Form 1 Page 266.8f - Footnote (f)
Ū		(\$001,100)	100.000070	(\$001,100)	10.000070 (0)	(\$11,022)	
6	Property Taxes	\$32,088,055	100.0000%	\$32,088,055	18.6955% (b) _	\$5,999,022	Property Tax - Footnote (e)
7 8 9 10 11	Transmission Operation and Maintenance Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) **Station Expenses & Rents - #562 / #567 O&M less lines 8, 9 & 10	\$61,559,182 \$14,396,724 \$8,828,161 \$0 \$38,334,297	-	\$61,559,182 \$14,396,724 \$8,828,161 \$38,334,297	18.6955% (b) 18.6955% (b) 18.6955% (b) 18.6955% (b)	\$11,508,797 \$2,691,540 \$1,650,469 \$0 \$7,166,788	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15	Transmission Administrative and General Total Administrative and General Less: Property Insurance (#924) Less: Regulatory Commission Expenses (#928) Less: General Advertising Expense (#930.1)	\$36,234,131 \$904,273 \$2,575,980 \$00		* *** *** ***			FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b
16 17	Subtotal [line 12 minus (13 thru 15)] Plus: Property Insurance Allocated using Plant Allocatior	\$32,753,878 \$904,273	99.8004% (a) 99.3561% (c)	\$32,688,501 \$898,450	18.6955% (b) 18.6955% (b)	\$6,111,279 \$167,970	Line 13
18	Plus: Regulatory Commission Expense	\$2,418,553	99.3561% (c)	\$2,402,980	18.6955% (b)	\$449,249	Attachment 5 Line 6
19	Plus: Specifically identifed Trans. Related General Advertising Expense	\$0		\$0	18.6955% (b)	\$0	Line 15
20 21	Plus: Specifically identified Trans. Related Regulatory Expense Total A&G [line 16 + (17 thru 20)]	<mark>\$100,454</mark> \$36,177,158	99.8004% (a)	\$100,253 \$36,090,184	18.6955% (b)	\$18,743 \$6,747,241	2013 FERC Form1 Page 350.15d
22	Payroll Tax Expense	\$1,703,290	99.8004% (a)	\$1,699,890	18.6955% (b)	\$317,803	FERC Form 1 Page 263.3,4i - Footnote (d)
(d) Payroll taxes - G/L 408.1		(e) <mark> </mark>	Property Taxes			
	Payroll Taxes Total	\$1,703,290 \$1,703,290	1 / 	Massachusetts New Hampshire /ermont Maine Rhode Island Connecticut	\$27,570,229 \$3,190,388 \$1,178,548 \$0 \$148,889 \$0 \$32,088,055		
					<i>402,000,000</i>		

(a) Worksheet 5 Line 11

(b) Worksheet 5 Line 3

(c) Worksheet 5 Line 16

(d) Transmission Only - Payroll Taxes - General Ledger query

(e) Transmission Only - Property Taxes - Stephen Adams, Property Taxes

(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Shading denotes an input

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1 2	PTF Transmission Investment	\$349,415,646 \$1,868,987,087	Attachment 1, Page 1 FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	18.6955%	
	Transmission Wages and Salaries Allocation Factor		
4 5 6	Direct Transmission Wages and Salaries Affiliated Company Transmission Wages and Salaries Total Transmission Wages and Salaries (Line 4 + Line 5)	\$0 <u>\$18,057,103</u> \$18,057,103	FERC Form 1 Page 354.14b General Ledger Query
7 8 9 10 11	Total Wages and Salaries Administrative and General Wages and Salaries Affiliated Company Wages and Salaries less A&G Total Wages and Salaries net of A&G (Line 7 - 8 + 9) Percent Allocation (Line 6/Line 10)	\$0 \$0 <u>\$18,093,209</u> \$18,093,209 99.8004%	FERC Form 1 Page 354.28b FERC Form 1 Page 354.27b General Ledger Query
12 13 14	<u>Plant Allocation Factor</u> Total Transmission Investment plus Transmission-Related General Plant = Revised Numerator (Line 12 + Line 13)	\$1,868,987,087 \$6,130,077 \$1,875,117,164	Line 2 Worksheet 3, Line 3, Column 3
15	Total Plant in Service	\$1,887,269,647	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.3561%	

New England Power Company Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2013

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			ΤΟΤΑ	L
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses
			(a)	(b)
NSTAR	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$109,892
	Bell Rock Road	Page 330.5 Line 12 Col (n)	\$39,828	
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrook	Page 330.1 Line 8 Col (n)	\$379,686	
NU	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5 Col (n)	\$14,736	
NEP	Chester SVC	Transmission Billing		\$587,541
	HQ Phase II - AC in MA	Page 330 Line 11 Col (n)	\$4,736,248	
VT Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12 Col (n)	\$38,115	
		Totals	\$5,208,613	\$697,433

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 22, Column 5)
Attachment 1

New England Power Company 2013 Informational Filing PTF Plant Allocation

			_	Percent Pre/Post
1	2012	Pre-1997 PTF Transmission Plant	\$352,959,991	
2	2012	Post-1996 PTF Transmission Plant	\$918,015,798	
3	2013	Additions/Retirements	\$65,163,152	
4	2013	Pre-1997 PTF Transmission Plant	\$349,415,646	26.15%
5	2013	Post-1996 PTF Transmission Plant	\$986,723,295	73.85%
6	2013	Total PTF Transmission Plant	\$1,336,138,941	100.00%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5

GROSS PLANT ASSOC. WITH HVDC LEASES 2013

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$14,975,714
2 3 4	<u>Allocation</u> Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	224 \$253 89%
5	Total Gross Plant leased by NHH (a)	\$13,328,385.46
6	Total Land from Sandy Pond to New Hampshire	\$1,106,146
7	HVDC lines occupy 35% of Right of Way	35%
8	Total Land leased by NEH (a)	\$387,151
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$13,715,537

Source:

- 1 FERC Form 1, Page 422.1, 423.1, Lines 18 + 35 col (I); Page 422.2, 423.2, Line 1 col (I)
- 2 Total miles used per lease agreement
- 3 FERC Form 1, Page 422.1, Lines 18 + 35 col (f); Page 422.2, Line 1 col (f)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422, 423, Line 20 col (j)
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)".

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2013</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,515,488
0	Less Os sifesti de difestatos estados Delated	
2	Less: Specifically Identified Transmission-Related	
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission	\$9,664
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission 2001 Transmission	(\$8,299) \$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	2010 Transmission	\$79,948
	2011 Transmission	\$155,706
	2012 Transmission	\$210,246
	2013 Transmission	\$169,241
		\$1,128,113
3	Total Unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.3561%
5 6 7	Allocated Transmission Related Book Depreciation on Equity AFUDC Plus: Specifically Identified Transmission-Related Equity AFUDC Total Transmission-Related Equity AFUDC	\$384,881 <u>\$1,128,113</u> \$1,512,994
8 9	Pre-97 PTF Allocation Factor Transmission-Related Equity AFUDC	18.6955% \$282,862

Sources:

1 & 2 Transmission Rates includes \$9,668 from Montaup

- 3 Line 1 Line 2
- 4 Worksheet 5 PTF Plant Allocation Factor
- 5 Line 3 * Line 4
- 6 Line 2
- 7 Line 5 + Line 6
- 8 Worksheet 5 Pre-97 PTF Allocation Factor
- 9 Line 7 * Line 8

Attachment 4

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2013</u>	MECO <u>2013</u>
1	Total Integrated Facilities Charges	\$98,617,356	\$15,090,817
2 3 4	Total 2013 PTF Property Total Transmission Plant in 2013 NECO or MECO PTF Plant Allocator	\$535,734,181 \$624,367,987 85,80%	\$24,833,644 \$53,681,732 46,26%
5	PTF Related Integrated Facilities Charge	\$84,617,869	\$6,981,145
6	Total Integrated Facilities	=	\$91,599,014

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2013 Regulatory Commission Expense

Line <u>No.</u>		<u>2013</u>	<u>Source</u>
1	Total Regulatory Commission Expense - NEP	\$2,575,980	2013 FERC Form1 Page 350.46d (page 323.189b)
2	Less: New Hampshire PUC Assessment	\$56,973	2013 FERC Form1 Page 350.1d
3	Less: Mass Emergency Fund	\$0	2013 FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$0	2013 FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$100,454</mark>	2013 FERC Form1 Page 350.15d
6	Total Federal Assessments	\$2,418,553	Line 1 - (Line 2-5)

Attachment 6

Transmission Rents Received from Electric Property

New England Power Company

	<u>2013</u>
Revenues Plant Allocation Factor Transmission Allocated PTF Allocation Total PTF Revenue	\$1,034,650
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,034,650
PTF Allocation	18.6955%
Total PTF Revenue	\$193,433

Source:

Revenues: SAP account C4540000, C454000W, C4545000

Attachment 7

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2013</u>
Revenues	<mark>\$514,715</mark>
Pre-97 PTF Percent	26.1511%
Total Pre-97 PTF Revenue	\$ 134,604

Source: Short Term Through and Out Revenues from ISO New England

SUPPORTING WORK PAPERS FOR NEW ENGLAND POWER CORRECTIONS TO PRIOR YEARS PTF REVENUE REQUIREMENTS FOR RNS RATES EFFECTIVE JUNE 1 OF EACH OF THE YEARS 2009-2013 Summary Changes in NEP PTF Revenue Requirements - for June 1, 2014 RNS Rate

	Re-Stated			As-Filed*			Retroactive Adj								
Applicable Rate Period		Pre-97	Post-96	Total		Pre-97		Post-96	Total		Pre-97	Pos	t-96		Total
June 1, 2009 - May 31, 2010	\$	83,053,527 \$	87,620,328 \$	170,673,856	\$	82,381,954 \$	5	87,489,083 \$	169,871,037	\$	671,573	\$ 1	31,245	\$	802,819
June 1, 2010 - May 31, 2011		83,690,440	109,207,445	192,897,885		82,941,498		105,284,991	188,226,488		748,942	3,9	22,454		4,671,396
June 1, 2011 - May 31, 2012		82,045,420	118,624,471	200,669,891		81,629,570		114,618,878	196,248,449		415,850	4,0	05,593		4,421,443
June 1, 2012 - May 31, 2013		95,332,395	128,174,379	223,506,775		94,530,102		128,435,692	222,965,794		802,293	(2	61,313)		540,980
June 1, 2013 - May 31, 2014		113,374,092	141,428,102	254,802,193		111,901,274		139,646,043	251,547,317		1,472,818	1,7	82,058		3,254,876
Totals	\$	457,495,875 \$	585,054,724 \$	1,042,550,599	\$	453,384,398 \$	5	575,474,687 \$	1,028,859,085	\$	4,111,477	\$ 9,5	80,037	\$	13,691,514

	PRE-97 ATRR		Post	t-96 ATRR		
	b/f adjustments		b/f adjustments		Revised w/ True Up	
June 1, 2014 - Sept 30, 2014	\$	167,779,106	\$	175,105,060	\$	342,884,167
Plus Retroactive Ajustment		4,111,477		9,580,037		13,691,514
	\$	171,890,583	\$	184,685,097	\$	356,575,680

* In compliance with FERC Docket No. EL11-66, the ROE rate was reduced from 11.64% to 11.07% for the period October 01, 2011 - December 31, 2012, Revenue Requirement (RR) years 2011 and 2012 - Rate period June 2012 to May 2014. Since the FERC order was issued in calendar year 2014 after submission of RR years 2011 and 2012, the "As-Filed" RR should be construed as follows:

- RR year 2011 (Rate period June 1, 2012 - May 31, 2013) is pro-rated at: 4 mos (June 1, 2011 - Sept 30, 2011) @ 11.64% As-Filed, and 8 mos (Oct 1, 2011 - May 31, 2012) @ 11.07% FERC revised rate - not yet filed.

- RR year 2012 (Rate period June 1, 2013 - May 31, 2014) is pro-rated at: 7 mos (June 1, 2012 - Dec 31, 2012) @ 11.07% FERC revised rate - not yet filed, and 5 mos (Jan 1, 2013 - May 2013) @ 11.64% As-Filed.

Summary of New England Power Restated and Original New England Power PTF Related ATRR For RNS Rates Effective June 1, 2009

		Res	stated 2009 PTF ATRR			
	I. INVESTMENT BASE	PRE-1997	POST-1996	Total	2009 As Filed	Change
Line No.						-
1	Transmission Plant	\$341,203,075	\$503,285,683	\$844,488,758	\$842,247,543	\$2,241,216
2	General Plant	1,924,762	2,736,482	4,661,244	4,649,059	12,185
3	Plant Held For Future Use	301,180	428,195	729,375	727,468	1,907
4	Total Plant (Lines 1+2+3)	343,429,017	506,450,360	849,879,377	847,624,070	2,255,308
5	Accumulated Depreciation	85,360,355	121,358,910	206,719,265	206,178,920	540,345
6	Accumulated Deferred Income Taxes	56,096,783	79,754,173	135,850,956	135,495,855	355,101
7	Loss On Reacquired Debt	376,247	534,919	911,166	908,785	2,381
8	Other Regulatory Assets	18,855,753	26,807,686	45,663,439	45,544,079	119,360
9	Net Investment (Line 4-5-6+7+8)	221,203,879	332,679,882	553,883,761	552,402,159	1,481,603
10	Prepayments	-	-	-	-	-
11	Materials & Supplies	1,058,465	1,504,846	2,563,311	2,556,611	6,700
12	Cash Working Capital	2,097,523	2,982,100	5,079,623	5,066,345	13,278
13	Total Investment Base (Line 9+10+11+12)	224,359,867	337,166,828	561,526,695	560,025,115	1,501,581

II. <u>REVENUE REQUIREMENTS</u>

14	Investment Return and Income Taxes	29,735,176	45,902,164	75,637,340	75,419,138	218,202
15	Depreciation Expense	7,815,536	11,111,540	18,927,076	18,877,603	49,473
16	Amortization of Loss on Reacquired Debt	94,477	134,321	228,798	228,200	598
17	Investment Tax Credit	(119,118)	(169,353)	(288,471)	(287,717)	(754)
18	Property Tax Expense	4,946,078	7,031,960	11,978,038	11,946,729	31,309
19	Payroll Tax Expense	535,119	760,792	1,295,912	1,292,525	3,387
20	Operation & Maintenance Expense	10,752,632	15,287,279	26,039,911	25,971,844	68,067
21	Administrative & General Expense	6,027,552	8,569,518	14,597,070	14,558,916	38,154
22	Transmission Related Integrated Facilities Charge	31,825,752	-	31,825,752	31,429,975	395,778
23	Transmission Support Revenue	(9,231,767)	-	(9,231,767)	(9,231,767)	-
24	Transmission Support Expense	1,381,011	-	1,381,011	1,381,011	-
25	Transmission Related Expense from Generators	-	-	-	-	-
26	Transmission Related Taxes and Fees Charge	-	-	-	-	-
27	Revenue for ST Trans. Service Under NEPOOL Tariff	(488,504)	(694,521)	(1,183,025)	(1,183,025)	-
28	Transmission Rents Received from Electric Property	(220,417)	(313,372)	(533,789)	(532,394)	(1,395)
29	Total Revenue Requirements excl Forecast and True-up (Line 14 thru 28)	83,053,527	87,620,328	170,673,856	169,871,037	802,819
30	Forecast				28,985,933	
31	True-up				\$641,263	
32	Total PTF Revenue Requirement (Line 29+30+31)	83,053,527	87,620,328	170,673,856	199,498,233	
52		03,033,327	07,020,320	170,073,050	199,490,233	

Summary of New England Power Restated and Original New England Power PTF Related ATRR For RNS Rates Effective June 1, 2010

		Res	stated 2010 PTF ATRR			
	I. INVESTMENT BASE	PRE-1997	POST-1996	Total	2010 As Filed	Change
Line No.						
1	Transmission Plant	\$339,300,092	\$664,596,724	\$1,003,896,817	\$977,835,452	\$26,061,364
2	General Plant	1,677,905	3,164,504	4,842,409	4,718,316	124,093
3	Plant Held For Future Use	263,347	496,668	760,015	740,539	19,476
4	Total Plant (Lines 1+2+3)	341,241,344	668,257,896	1,009,499,241	983,294,307	26,204,933
5	Accumulated Depreciation	78,995,083	148,983,596	227,978,679	222,136,464	5,842,215
6	Accumulated Deferred Income Taxes	71,067,110	134,031,553	205,098,663	199,842,774	5,255,889
7	Loss On Reacquired Debt	253,833	478,726	732,559	713,787	18,772
8	Other Regulatory Assets	15,736,382	29,678,590	45,414,972	44,251,161	1,163,811
9	Net Investment (Line 4-5-6+7+8)	207,169,366	415,400,063	622,569,430	606,280,017	16,289,412
10	Prepayments	-		-	-	-
11	Materials & Supplies	995,680	1,877,837	2,873,517	2,799,880	73,637
12	Cash Working Capital	2,002,723	3,777,107	5,779,830	5,631,715	148,115
13	Total Investment Base (Line 9+10+11+12)	210,167,769	421,055,007	631,222,777	614,711,612	16,511,164

II. <u>REVENUE REQUIREMENTS</u>

14	Investment Return and Income Taxes	26,914,505	55,185,546	82,100,051	80,048,054	2,051,997
15	Depreciation Expense	7,325,298	13,815,406	21,140,704	20,598,948	541,756
16	Amortization of Loss on Reacquired Debt	75,151	141,733	216,884	211,326	5,558
17	Investment Tax Credit	(104,065)	(196,264)	(300,329)	(292,633)	(7,696)
18	Property Tax Expense	5,370,633	10,128,938	15,499,571	15,102,376	397,195
19	Payroll Tax Expense	502,606	947,908	1,450,514	1,413,343	37,171
20	Operation & Maintenance Expense	8,809,833	16,615,219	25,425,052	24,773,508	651,544
21	Administrative & General Expense	7,211,949	13,601,635	20,813,584	20,280,212	533,372
22	Transmission Related Integrated Facilities Charge	34,299,087	-	34,299,087	33,821,768	477,318
23	Transmission Support Revenue	(7,130,058)	-	(7,130,058)	(7,130,058)	-
24	Transmission Support Expense	963,053	-	963,053	963,053	-
25	Transmission Related Expense from Generators	-	-	-	-	-
26	Transmission Related Taxes and Fees Charge	-	-	-	-	-
27	Revenue for ST Trans. Service Under NEPOOL Tariff	(320,123)	(603,747)	(923,870)	(923,871)	1
28	Transmission Rents Received from Electric Property	(227,429)	(428,929)	(656,358)	(639,538)	(16,820)
29	Total Revenue Requirements excl Forecast and True-up (Line 14 thru 28)	83,690,440	109,207,445	192,897,885	188,226,488	4,671,396
30	Forecast				25,197,392	
31	True-up				(10,979,863)	
32	Total PTF Revenue Requirement (Line 29+30+31)	83,690,440	109,207,445	192,897,885	202,444,017	
02		00,000,110	,201,110		202, 111,017	

Summary of New England Power Restated and Original New England Power PTF Related ATRR For RNS Rates Effective June 1, 2011

		Res	tated 2011 PTF ATRR			
	I. INVESTMENT BASE	PRE-1997	POST-1996	Total	2011 As Filed	Change
Line No.						
1	Transmission Plant	\$338,029,073	\$755,657,102	\$1,093,686,175	\$1,063,936,382	\$29,749,793
2	General Plant	1,626,789	3,501,114	5,127,903	4,990,067	137,836
3	Plant Held For Future Use	243,112	523,217	766,329	745,730	20,599
4	Total Plant (Lines 1+2+3)	339,898,974	759,681,433	1,099,580,407	1,069,672,179	29,908,228
5	Accumulated Depreciation	(78,290,517)	(168,493,923)	(246,784,440)	(240,150,981)	(6,633,459)
6	Accumulated Deferred Income Taxes	(74,349,701)	(160,012,647)	(234,362,348)	(228,062,788)	(6,299,560)
7	Loss On Reacquired Debt	164,953	355,007	519,960	505,984	13,976
8	Other Regulatory Assets	10,494,594	22,586,072	33,080,666	32,191,471	889,195
9	Net Investment (Line 4-5-6+7+8)	197,918,303	454,115,942	1,614,327,821	1,570,583,403	43,744,418
10	Prepayments	-	-	-		-
11	Materials & Supplies	1,056,577	2,273,926	3,330,503	3,240,981	89,522
12	Cash Working Capital	1,869,930	4,024,393	5,894,323	5,735,887	158,437
13	Total Investment Base (Line 9+10+11+12)	200,844,810	460,414,261	1,623,552,647	1,579,560,271	43,992,377

II. <u>REVENUE REQUIREMENTS</u>

14	Investment Return and Income Taxes	25,499,438	59,812,781	85,312,219	83,709,819	1,602,401
15	Depreciation Expense	7,710,091	16,593,368	24,303,459	23,650,192	653,267
16	Amortization of Loss on Reacquired Debt	69,376	149,309	218,685	212,807	5,878
17	Investment Tax Credit	(93,702)	(201,661)	(295,363)	(287,423)	(7,940)
18	Property Tax Expense	5,353,194	11,520,944	16,874,138	16,420,568	453,570
19	Payroll Tax Expense	487,840	1,049,911	1,537,751	1,496,417	41,334
20	Operation & Maintenance Expense	7,814,105	16,817,224	24,631,329	23,969,249	662,080
21	Administrative & General Expense	7,145,335	15,377,923	22,523,258	21,917,843	605,415
22	Transmission Related Integrated Facilities Charge	34,881,073	-	34,881,073	34,453,101	427,973
23	Transmission Support Revenue	(6,543,377)	-	(6,543,377)	(6,543,377)	-
24	Transmission Support Expense	881,501	-	881,501	881,501	-
25	Transmission Related Expense from Generators	-	-	-	-	-
26	Transmission Related Taxes and Fees Charge	-	-	-	-	-
27	Revenue for ST Trans. Service Under NEPOOL Tariff	(893,517)	(1,922,989)	(2,816,506)	(2,816,505)	(1)
28	Transmission Rents Received from Electric Property	(265,937)	(572,339)	(838,276)	(815,742)	(22,534)
29	Total Revenue Requirements excl Forecast and True-up (Line 14 thru 28)	82,045,420	118,624,471	200,669,891	196,248,449	4,421,443
30	Forecast				19,133,246	
31	True-up				(17,747,774)	
32	Total PTF Revenue Requirement (Line 29+30+31)	82,045,420	118,624,471	200,669,891	197,633,920	
		•	· · · · · · · · · · · · · · · · · · ·			

Summary of New England Power Restated and Original New England Power PTF Related ATRR For RNS Rates Effective June 1, 2012

FOL	RNS	Rates	Ellective	June	п,	20	ł

					Re	stated 2012 PTF ATRR								
	-		June 11 - Sept 11				Oct 11 - May 12				2012 As Filed	2012 As Filed		
L	INVESTMENT BASE	PRE-1997	POST-1996	Sub-Total	Allocated Total	PRE-1997	POST-1996	Sub-Total	Allocated Total	Total	June 11 - Sept 11	Oct 11 - May 12	Total 2012 As filed	Change
Line No.	=													
1	Transmission Plant	\$336,247,655	\$819,449,952	\$1,155,697,607	\$385,232,536	\$336,247,655	\$819,449,952	\$1,155,697,607	\$770,465,071	\$1,155,697,607	\$384,551,899	\$769,103,797	\$1,153,655,696	\$2,041,911
2	General Plant	1,399,489	3,282,852	4,682,341	1,560,780	1,399,489	3,282,852	4,682,341	3,121,561	4,682,341	1,558,052	3,116,104	4,674,156	8,185
3	Plant Held For Future Use	225,295	528,485	753,780	251,260	225,295	528,485	753,780	502,520	753,780	250,821	501,641	752,462	1,318
4	Total Plant (Lines 1+2+3)	337,872,439	823,261,289	1,161,133,728	387,044,576	337,872,439	823,261,289	1,161,133,728	774,089,152	1,161,133,728	386,360,771	772,721,543	1,159,082,314	2,051,414
5	Accumulated Depreciation	(77,488,640)	(181,769,040)	(259,257,680)	(86,419,227)	(77,488,640)	(181,769,040)	(259,257,680)	(172,838,453)	(259,257,680)	(86,268,166)	(172,536,332)	(258,804,498)	(453,182)
6	Accumulated Deferred Income Taxes	(76,355,405)	(179,110,753)	(255,466,158)	(85,155,386)	(76,355,405)	(179,110,753)	(255,466,158)	(170,310,772)	(255,466,158)	(85,006,535)	(170,013,070)	(255,019,605)	(446,553)
7	Loss On Reacquired Debt	91,898	215,570	307,468	102,489	91,898	215,570	307,468	204,979	307,468	102,310	204,621	306,931	537
8	Other Regulatory Assets	9,354,618	21,943,602	31,298,220	10,432,740	9,354,618	21,943,602	31,298,220	20,865,480	31,298,220	10,414,504	20,829,007	31,243,511	54,709
9	Net Investment (Line 4+5+6+7+8)	193,474,910	484,540,668	1,707,463,254	569,154,418	193,474,910	484,540,668	1,707,463,254	1,138,308,836	1,707,463,254	568,152,286	1,136,304,573	1,704,456,859	3,006,395
10	Prepayments	30,363	71,225	101,588	33,863	30,363	71,225	101,588	67,725	101,588	33,804	67,607	101,411	177
11	Materials & Supplies	838,599	1,967,145	2,805,744	935,248	838,599	1,967,145	2,805,744	1,870,496	2,805,744	933,613	1,867,227	2,800,840	4,904
12	Cash Working Capital	1,741,012	4,083,981	5,824,993	1,941,664	1,741,012	4,083,981	5,824,993	3,883,328	5,824,993	1,938,270	3,876,540	5,814,811	10,182
13	NEEWS CWIP		10,910,787	10,910,787	3,636,929		10,910,787	10,910,787	7,273,858	10,910,787	3,636,929	7,273,858	10,910,787	· · ·
	_	196,084,884	501,573,805	1,716,195,579	572,065,193	196,084,884	501,573,805	1,716,195,579	1,144,130,386	1,716,195,579	571,057,973	1,142,115,947	1,713,173,921	3,021,658
14	Total Investment Base (Line 9+10+11+12+13)													
15	REVENUE REQUIREMENTS	05 044 404	05 757 004	00 770 005	20 057 100	00 050 740	co 700 000	00 504 005	F7 704 000	07.070.705	00.444.507	50.004.040	00 500 044	(557.400)
15		25,014,431	65,757,864	90,772,295	30,257,432	23,859,746	62,722,239	86,581,985	57,721,323	87,978,755	30,441,597	58,094,643	88,536,241	(557,486)
16 17	Depreciation Expense Amortization of Loss on Reacquired Debt	7,623,413 60,966	17,882,627 143.011	25,506,040 203,977	8,502,013 67,992	7,623,413 60,966	17,882,627 143.011	25,506,040 203,977	17,004,027 135,985	25,506,040 203.977	8,487,152 67,874	16,974,304 135,747	25,461,456 203,621	44,584 356
17	Investment Tax Credit	(86,551)	(203,026)	(289,577)	(96,526)	(86,551)	(203.026)	(289,577)	(193.051)	(289,577)	(96.357)	(192,714)	(289,071)	(506)
18	Property Tax Expense	(86,551) 5.956,173	(203,026) 13,971,698	(289,577) 19,927,871	6.642.624	(86,551) 5.956,173	(203,026)	(289,577) 19,927,871	13.285.247	(289,577) 19,927,871	(90,357) 6.631.012	(192,714) 13.262.025	(289,071) 19.893.037	(506) 34,834
20	Pavroll Tax Expense	496,949	1.165.718	1.662.667	554.222	496,949	1.165.718	1.662.667	1.108.445	1.662.667	553.254	1.106.507	1.659.761	2,906
20	Operation & Maintenance Expense	7,644,111	17,931,179	25,575,290	8,525,097	7,644,111	17,931,179	25,575,290	17,050,193	25,575,290	8,510,195	17,020,391	25,530,586	44,704
22	Administrative & General Expense	6.283.985	14,740,665	21.024.650	7.008.217	6.283.985	14,740,665	21.024.650	14.016.433	21.024.650	6,995,966	13,991,933	20,987,899	36,751
23	Transmission Related Integrated Facilities Charge	48,556,985		48,556,985	16,185,662	48,556,985		48,556,985	32,371,324	48,556,985	15,873,531	31,747,063	47,620,594	936,391
24	Transmission Support Revenue	(5,663,545)		(5,663,545)	(1,887,848)	(5,663,545)		(5,663,545)	(3,775,697)	(5,663,545)	(1,887,848)	(3,775,697)	(5,663,545)	
25	Transmission Support Expense	723,254		723,254	241,085	723,254		723,254	482,170	723,254	241,085	482,170	723,254	-
26	Transmission Related Expense from Generators							-						
27	Transmission Related Taxes and Fees Charge							-		-				
28	Revenue for ST Trans. Service Under NEPOOL Tariff	(241,917)	(567,475)	(809,392)	(269,797)	(241,917)	(567,475)	(809,392)	(539,595)	(809,392)	(269,797)	(539,595)	(809,392)	
29	Transmission Rents Received from Electric Property	(266,069)	(624,132)	(890,201)	(296,734)	(266,069)	(624,132)	(890,201)	(593,467)	(890,201)	(296,215)	(592,431)	(888,646)	(1,555)
30	Total Revenue Requirements excl Forecast and True-up (Line 14 thru 28)	96,102,185	130,198,129	226,300,315	75,433,438	94,947,500	127,162,504	222,110,005	148,073,336	223,506,775	75,251,448	147,714,346	222,965,794	540,980
31	Forecast										12.349.604	24.128.686	36.478.290	
32	True-up										3,572,768	7,285,373	10,858,141	
		aa 100 1	100 100 10-				100 100 5							
33	Total PTF Revenue Requirement (Line 30+31+32)	96,102,185	130,198,129	226,300,315	75,433,438	94,947,500	127,162,504	222,110,005	148,073,336	223,506,775	91,173,820	179,128,405	270,302,225	

Summary of New England Power Restated and Original New England Power PTF Related ATRR For RNS Rates Effective June 1, 2013

⊢or	RNS	Rates	Effective	June	1, 201	

					Re	stated 2013 PTF ATRR								
			June 12 - Dec 12				Jan 13 - May 13				2013 As Filed	2013 As Filed		
	I. INVESTMENT BASE	PRE-1997	POST-1996	Sub-Total	Allocated Total	PRE-1997	POST-1996	Sub-Total	Allocated Total	Total	June 12 - Dec 12	Jan 13 - May 13	Total 2013 As filed	Change
Line No.														
1	Transmission Plant	\$339,265,312	\$918,015,798	\$1,257,281,110	\$733,413,981	\$339,265,312	\$918,015,798	\$1,257,281,110	\$523,867,129	\$1,257,281,110	\$721,403,104	\$515,287,932	\$1,236,691,036	\$20,590,074
2	General Plant	1,315,614	3,421,788	4,737,402	2,763,485	1,315,614	3,421,788	4,737,402	1,973,918	4,737,402	2,718,714	1,941,939	4,660,653	76,749
3	Plant Held For Future Use	211,853	551,011	762,864	445,004	211,853	551,011	762,864	317,860	762,864	437,795	312,710	750,505	12,359
4	Total Plant (Lines 1+2+3)	340,792,779	921,988,597	1,262,781,376	736,622,469	340,792,779	921,988,597	1,262,781,376	526,158,907	1,262,781,376	724,559,613	517,542,581	1,242,102,194	20,679,182
5	Accumulated Depreciation	(77.582.706)	(201.785.268)	(279.367.974)	(162.964.652)	(77.582.706)	(201,785,268)	(279.367.974)	(116.403.323)	(279.367.974)	(160.324.508)	(114.517.505)	(274.842.013)	(4.525.961)
6	Accumulated Deferred Income Taxes	(80,928,770)	(210,488,062)	(291,416,832)	(169,993,152)	(80,928,770)	(210,488,062)	(291,416,832)	(121,423,680)	(291,416,832)	(167,239,141)	(119,456,530)	(286,695,671)	(4,721,161)
7	Loss On Reacquired Debt	58,313	151,668	209,981	122,489	58,313	151,668	209,981	87,492	209,981	120,504	86,075	206,579	3,402
8	Other Regulatory Assets	9,554,994	24,851,635	34,406,629	20,070,534	9,554,994	24,851,635	34,406,629	14,336,095	34,406,629	19,745,377	14,103,840	33,849,217	557,412
9	Net Investment (Line 4+5+6+7+8)	191,894,610	534,718,570	1,868,182,792	1,089,773,295	191,894,610	534,718,570	1,868,182,792	778,409,497	1,868,182,792	1,071,989,143	765,706,531	1,837,695,674	30,487,118
10	Prepayments							-						
11	Materials & Supplies	1.007.829	2.621.268	3.629.097	2.116.973	1.007.829	2.621.268	3.629.097	1.512.124	3.629.097	2.082.677	1.487.626	3.570.303	58,794
12	Cash Working Capital	1,780,140	4,629,975	6,410,115	3,739,234	1,780,140	4,629,975	6,410,115	2,670,881	6,410,115	3,678,656	2,627,611	6,306,267	103,849
13	NEEWS CWIP		14,550,755	14,550,755	8,487,941		14,550,755	14,550,755	6,062,815	14,550,755	8,487,941	6,062,815	14,550,755	-
		194,682,579	556,520,569	1,878,222,004	1,095,629,502	194,682,579	556,520,569	1,878,222,004	782,592,502	1,878,222,004	1,077,750,475	769,821,768	1,847,572,244	30,649,761
14	Total Investment Base (Line 9+10+11+12+13)													
15 16	II. <u>REVENUE REQUIREMENTS</u> Investment Return and Income Taxes Depreciation Expense	23,214,340 7.736,714	68,174,926 20,122,458	91,389,266 27,859,172	53,310,405 16,251,184	24,360,748 7,736,714	71,452,053 20,122,458	95,812,801 27,859,172	39,922,000 11,607,988	93,232,406 27,859,172	52,952,919 15.987.903	39,636,851 11,419,930	92,589,770 27,407,833	642,635 451,339
17	Amortization of Loss on Reacquired Debt	28,102	73.091	101.193	59.029	28.102	73.091	101,193	42.164	101.193	58.073	41.481	99.554	1.639
18	Investment Tax Credit	(80,525)	(209,438)	(289,963)	(169,145)	(80,525)	(209,438)	(289,963)	(120.818)	(289,963)	(166,405)	(118,861)	(285,266)	(4,697)
19	Property Tax Expense	5,910,565	15,372,820	21,283,385	12,415,308	5,910,565	15,372,820	21,283,385	8,868,077	21,283,385	12,214,171	8,724,408	20,938,579	344,806
20	Payroll Tax Expense	329,630	857,337	1,186,967	692,397	329,630	857,337	1,186,967	494,570	1,186,967	681,180	486,557	1,167,737	19,230
21	Operation & Maintenance Expense	6,969,104	18,125,978	25,095,082	14,638,798	6,969,104	18,125,978	25,095,082	10,456,284	25,095,082	14,401,639	10,286,885	24,688,524	406,558
22	Administrative & General Expense	7,272,016	18,913,825	26,185,841	15,275,074	7,272,016	18,913,825	26,185,841	10,910,767	26,185,841	15,027,606	10,734,005	25,761,611	424,230
23	Transmission Related Integrated Facilities Charge	66,747,070		66,747,070	38,935,791	66,747,070		66,747,070	27,811,279	66,747,070	38,362,540	27,401,814	65,764,354	982,716
24	Transmission Support Revenue	(5,407,628)		(5,407,628)	(3,154,450)	(5,407,628)		(5,407,628)	(2,253,178)	(5,407,628)	(3,154,450)	(2,253,178)	(5,407,628)	-
25	Transmission Support Expense	703,144		703,144	410,167	703,144		703,144	292,977	703,144	410,167	292,977	703,144	-
26	Transmission Related Expense from Generators	-		-	-	-		-			-		-	-
27	Transmission Related Taxes and Fees Charge											· · · · ·		-
28	Revenue for ST Trans. Service Under NEPOOL Tariff	(293,308)	(762,866)	(1,056,174)	(616,102)	(293,308)	(762,866)	(1,056,174)	(440,073)	(1,056,174)	(616,102)	(440,073)	(1,056,174)	-
29	Transmission Rents Received from Electric Property	(232,803)	(605,499)	(838,302)	(489,010)	(232,803)	(605,499)	(838,302)	(349,293)	(838,302)	(481,088)	(343,634)	(824,722)	(13,580)
30	Total Revenue Requirements excl Forecast and True-up (Line 14 thru 28)	112,896,422	140,062,632	252,959,054	147,559,448	114,042,830	143,339,759	257,382,589	107,242,745	254,802,193	145,678,155	105,869,162	251,547,317	3,254,876
31	Forecast										30,358,210	22,179,346	52,537,556	
32	True-up										-		-	
33	Total PTF Revenue Requirement (Line 30+31+32)	112 896 422	140.062.632	252.959.054	147.559.448	114.042.830	143,339,759	257 382 589	107.242.745	254.802.193	176.036.365	128 048 509	304 084 873	
00					,000,110		,000,700	201,002,000		20.,002,100		0,040,000	22 ,004,010	

SUPPORTING WORK PAPERS FOR NEW ENGLAND POWER DETAILED RE-CALCULATION OF PRIOR YEARS PTF REVENUE REQUIREMENTS FOR RNS RATES EFFECTIVE JUNE 1 OF EACH OF THE YEARS 2009-2013

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Shading denotes an input

Submitted on:				
Revenue Requirements for (year):		Calend	dar Year 2008	
Rates Effective for the Period: Through:			une 2009 lay 2010	
Customer:		New Englan	d Power Company	
Customer's NABs Number:				
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:				
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$91,613,205	(a)	\$88,628,221	(f)
Total of Attachment F - Section J - Support Revenue	\$9,231,767	(b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$1,381,011	(c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$708,921)	(d)	(\$1,007,893)	(i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$83,053,527	(e)=(a)-(b)+(c)+(d)	\$87,620,328	<u>(</u>)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A	_	\$28,985,933	_(k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	N/A	_()	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$83,053,527	(n)=(e)+(l)	\$116,606,261	(0)=(j)+(k)+(
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest)			\$199,659,789	(p) = (n) + (c

PTF Revenue Requirements Worksheet 1 of 5

New England Power Company	
Annual Revenue Requirements of PTF Facilities	
for costs in 2008	

			osts in 2		
		PC	OST-19	96	
Sh	ading denotes an input				
		Attachment F			
	I. INVESTMENT BASE	Reference		NEP	Reference
Line No.		Section:			
1	Transmission Plant	(A)(1)(a)		\$503,285,683	Worksheet 3, line 1&2 column 5
2	General Plant	(A)(1)(b)		\$2,736,482	Worksheet 3, line 3 column 5
3 4	Plant Held For Future Use	(A)(1)(c)		\$428,195 \$506,450,360	Worksheet 3, line 5 column 5
4	Total Plant (Lines 1+2+3)			\$ 506,450,360	
5	Accumulated Depreciation	(A)(1)(d)	24%	\$121,358,910	Worksheet 3, line 8 column 5
6	Accumulated Deferred Income Taxes	(A)(1)(e)	16%	\$79,754,173	Worksheet 3, line 11 column 5
7	Loss On Reacquired Debt	(A)(1)(f)	0%	\$534,919	Worksheet 3, line 12 column 5
8	Other Regulatory Assets	(A)(1)(g)	5%	\$26,807,686	Worksheet 3, line 16 column 5
9	Net Investment (Line 4-5-6+7+8)			\$332,679,882	
10	Prepayments	(A)(1)(h)	0%	\$0	Worksheet 3, line 17 column 5
10	Materials & Supplies	(A)(1)(i)	0%	\$1,504,846	Worksheet 3, line 17 column 5 Worksheet 3. line 18 column 5
12	Cash Working Capital	(A)(1)(j)	1%	\$2,982,100	Worksheet 3, line 25 column 5
		(*)(*)()	. /0	<i>_</i> ,,	
13	Total Investment Base (Line 9+10+11+12)			\$337,166,828	
11.					
	REVENUE REQUIREMENTS				
14	Investment Return and Income Taxes	(A)		\$45,902,164	Worksheet 2
15	Depreciation Expense	(B)	2%	\$11,111,540	Worksheet 4, line 3, column 5
16	Amortization of Loss on Reacquired Debt	(C)	0%	\$134,321	Worksheet 4, line 4, column 5
17	Investment Tax Credit	(D)	0%	(\$169,353)	Worksheet 4, line 5, column 5
18	Property Tax Expense	(E)	1%	\$7,031,960	Worksheet 4, line 6, column 5
19	Payroll Tax Expense	(F)	0%	\$760,792	Worksheet 4, line 22, column 5
20	Operation & Maintenance Expense	(G)	3%	\$15,287,279	Worksheet 4, line 11, column 5
21	Administrative & General Expense	(H)	2%	\$8,569,518	Worksheet 4, line 21, column 5
22	Transmission Related Integrated Facilities Charge	(I)		\$0	Attachment 4, line 6
23	Transmission Support Revenue	(J)		\$0	Worksheet 6
24	Transmission Support Expense	(K)		\$0	Worksheet 6
25	Transmission Related Expense from Generators	(L)		\$0	Worksheet 7
26	Transmission Related Taxes and Fees Charge	(M)		\$0	
27	Revenue for ST Trans. Service Under NEPOOL Tariff	(N)		(\$694,521)	Attachment 7
28	Transmission Rents Received from Electric Property	(O)		(\$313,372)	Attachment 6
29	Total Revenue Requirements (Line 14 thru 28)			\$87,620,328	

Sheet: Worksheet 1

88,628,221

New England Power Company Forecasted Transmission Revenue Requirements of PTF Facilities

				POST-	·1996	
	Sha	iding denotes an input		-		
	I.	FORECASTED TRANSMISSION REVENUE REQUIREMENTS	Period	Attachment F Reference Section:	NEP	Reference
Line No.		Forecasted Transmission Plant Additions	2008	Appendix C	164,600,000	
2		Carrying Charge Factor	2000	Appendix C	17.61%	
3		Total Forecasted Revenue Requirements (Lines 1*2)		Appendix O	\$28,985,933	
	II.	CARRYING CHARGE FACTOR				
4		Investment Return and Income Taxes		(A)	\$45,902,164	Summary, line 14
5		Depreciation Expense		(B)	\$11,111,540	Summary, line 15
6		Amortization of Loss on Reacquired Debt		(C)	\$134,321	Summary, line 16
7		Investment Tax Credit		(D)	(\$169,353)	Summary, line 17
8		Property Tax Expense		(E)	\$7,031,960	Summary, line 18
9		Payroll Tax Expense		(F)	\$760,792	Summary, line 19
10		Operation & Maintenance Expense		(G)	\$15,287,279	Summary, line 20
11		Administrative & General Expense		(H)	\$8,569,518	Summary, line 21
12		Total Expenses (Lines 4 thru 11)			\$88,628,221	
13		PTF Transmission Plant		(A)(1)(a)	\$503,285,683	Summary, line 1
14		Carrying Charge Factor (Lines 12/13)			17.61%	

New England Power Company Annual Revenue Requirements For Costs in 2008

Shading denotes an input

LONG TENDER Statustion Status							CAPITALIZATION 12/31/2008		LIZATION TIOS	COST OF CAPITAL	COST OF CAPITAL	EQUITY PORTION
DETERMENT PETERMENT PETE					PREFEI	RRED STOCK	\$1,111,700		0.09%	6.02%	0.01%	0.0 7.6
1 1 1 1 1 1 1 1 1												
$P(P) = Partial norms Tax = + \left(\frac{PTP_{11} + e^{-p_{12}} + e^{-p_{12}} PE_{12} + e^{-p$	Cost of Capital Rate=											
b) Fordera Income Tax = (<u>ROE F. (The Cost + of Degree Exp.) / PTF Im. Base) + Federal Income Tax Rate - </u>	a) Weighted Cost of Capital	=	0.0843									
(c) Sate Income Tax - 0.0511599 (c) Sate Income Tax - (c) File File 0.051159 - (c) Cost (c) File (c) File (c) File (c) File - (c) Cost (c) File (c) File (c) File (c) File - (c) Cost (c) File (c) File (c) File (c) File - (c) Cost (c) File (c) File (c) File (c) File - (c) Cost (c) File (c) File (c) File (c) File - (c) Cost (c) File (c) File (c) File (c) File - (c) Cost Cost (c) File (c) File (c) File - (c) Cost Cost Cost (c) File (c) File - (c) Cost Cost Cost (c) File (c) File - (c) Cost Cost Cost (c) File (c) File - (c) Cost Cost Cost (c) File (c) File - (c) Cost Cost Cost (c) File (c) File - (c) Cost Cost File (c) File (c) File - (c) Cost (c) Cost	b) Federal Income Tax	= (PTF Inv. Base)					
$ \begin{array}{c} & 0.04189 \\ (0, 0846 hooms Tax \\ & = \\ & \left(\frac{ROE + 1}{1 \times O^{ROE} + 0} \frac{PF Irv. Back + 0 Derec Eq. }{1 \times O^{ROE} + 0} \right) / PF Irv. Back + Seale hooms Tax \frac{1}{1 \times Sale} + \frac{1}{1 \times S$		= ((\$169,353) +		\$311,865) /	\$337,166,828)	x)		
(c) State Income Tax = (PT inv: Eq. APLOC • State Income Tax • State		-	-					-	0.35)		
(a) Glass Income Tax (<u>100765</u> , (<u>100765</u> , (<u>100765</u> , <u>1007655</u> , <u>1007765620</u> , <u>100765520}</u> , <u>100765205</u> , <u>100765205</u> , <u>100765520}</u> , <u>100765205</u> , <u>100765205</u> , <u>100765205</u> , <u>100765205}</u> , <u>100765205}</u> , <u>100765205</u> , <u>100765205}</u> , <u>100765205}</u> , <u>100765205</u> , <u>100765205}</u> , <u>100765205}, <u>100765205}, <u>100765205}, <u>100765205}, <u>100765205}, <u>10076520566666666666666666666666666666666</u></u></u></u></u></u>		-	0.0414155	PTF Inv.	Ea. AFUD	C						
(1 - 0.056328 - 0.0007284 - 0.0007284 - 0.0007284 (a)-(b)-(c) 0.0007284 - 0.0007284 - 0.0007284 - 0.0007284 - 0.0007284 - 0.0007284 - 0.0007284 - 0.0007284 - 0.0007284 - 0.0007284 - 0.0007284 - 0.000775 - 0.000775 - Worksheet 1 - 0.000775 - Worksheet 1 - 0.000775 - Worksheet 3 - 0.000775 - 0.000775 - 0.000775 - 0.000775 - 0.00077 - 0.00077 - 0.00077 - 0.00077 - 0.00077 - 0.00077 - 0.00077 - 0.00077 - 0.00077 - 0.00077 - 0.00077 - 0.00077 - 0	c) State Income Tax	= (PTF Inv. Base)				State Income Tax F	Rate
- 0.000784 a)+0)+(c) Cas of Capital Rate - 0.152163 - 0.000784 - 0.152163 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.000784 - 0.0000784		= ((\$169,353) +		\$311,865) /	\$337,166,828)			99))	0.054	326
a)+(b)+(c) Cost of Capital Rate 0.1251183 m_m_f_m_m_m_m_m_m_m_m_m_m_m_m_m_m_m_m_m		(-	0.054326)		
LPTF NUESTMENT BASE S337,168.82 From Worksheet 1 1: Cost of Capital Rate 0.1325183 Investment Return and Income Tases 544.860.775 1: Investment Return and Income Tases 544.860.775 to Worksheet 1 Investment Return and Income Tases Vist 2001 Protections 5 44.750.426 From Morksheet 3.8.5 Vist 2001 Protections 5 44.750.426 From Morksheet 3.8.5 Vist 2001 Investment 5 44.750.426 From Morksheet 3.8.5 Vist 2001 Investment 5 44.750.426 From Morksheet 3.8.5 Vist 2001 Investment 5 14.500.00F Caculateed Transpectified 1.00F 0.0035F Per Attach. F Transpectified 5 174.626 Prom Worksheet 3.8.5 Stormer Tases 5 124.569 Prom Worksheet 3.8.5 Construct Tases 5 124.669 Prom Worksheet 3.8.5 Construct Tases 5 124.669 Prom Worksheet 3.8.5 Construct Tases 5 124.669 Prom Worksheet 3.8.5 Construct Tase		-	0.0007304									
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NVESTMENT BASE 5337,166,22 Form Worksheet 1 1: Cool of Capital Rate 0.1325183 - 1: Investment Raturn and Income Taxes 544,890,775 To Worksheet 1 2: Attachment 2 - - - 2: Attachment 2 - - - - 2: Attachment 2 - - - - - 2: Attachment 2 - - - - - - 2: Attachment 2 -<												
NVESTMENT BASE 5337,166,222 From Worksheet 1 1: Cool of Capital Rate 0.1325183 - 1: Investment Raturn and Income Taxes 544.689,775 To Worksheet 1 2: Attachment 2 - - - 2: Attachment 2 - - - - 2: Attachment 2 - - - - - 2: Attachment 2 - - - - - - 2: Attachment 2 -												
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Investment Return and Income Taxes 544.680.775 To Worksheet 1 ex. Attachmeut 2 ex. Attachmeut 2 ex. Attachmeut 2 ex. Attachmeut 2 ex. 2020 PT Freetment Block whorement 100 ppc: Accam. Diperciation \$ 183.844.644 5 22.8564.149 From Worksheets 3.8.5 5 22.8564.149 From Worksheets 3.8.5 Calculated trainental ROE: 1.00% 0.00057 114.00.067 Calculated 1.216.051 Per Attach. F Per Attach. F Trom Worksheets 3.8.5 S 121.600 S 122.600 S 121.600 S 122.600 S 122.600												
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	Cost of Capital Rate Investment Return and Income Taxes e: Attachment 2 vost 2003 PTF Investment Base wf Incremental Plant Accum. Depreciation Accum. Defreme Total Trans Investment Total Tran	100 bps: 1.00% F Investment 25 bps: 1.25% Investment	\$ 188,364,644 \$ 44,750,429 \$ 29,584,149 \$ 114,030,067 0,00058 0,01068 \$ 1,218,061 \$ 774,674 \$ 184,042 \$ 121,669 \$ 468,963 0,000236 0,000236 0,000236 0,000236 0,000238 0,000712 \$ 3,338 \$ 1,208,005,587 \$ 51,208,005,587 \$ 51,500,505,507 \$ 51,500,505,507 \$ 51,500,505,507 \$ 51,500,507,507 \$ 51,500,507,507 \$ 51,500,507,507 \$ 51,500,507,507 \$ 51,500,507,507,507,507,507,507,507,507,507	To Worksheet 1 From Attachment 1 From Worksheets 3 Calculated Per Attach. F Per Attach. F PowerPlant PTF 4 & From Worksheets 3 Calculated Calculated Per Attach. F	& 5 5 reports - PTF only & 5							

Shading denotes an input

New England Power Company

PTF Revenue Requirements Worksheet 3 of 5

Line No.		(1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	FERC Form 1 Reference for col (1)
1 2 3 4	Transmission Plant Less: Plant Assoc. HVDC Leases General Plant Total (line 1+2+ 3)	\$6,586,814	99.7176% (a)	\$0 \$6,568,213 \$6,568,213	41.6625%	\$503,285,683 \$0 \$2,736,482 \$506,022,165	Attachment 1, Page 1 Attachment 1, Page 2 FERC Form 1 page 207.99
5	Transmission Plant Held for Future Use	\$1,027,771		\$1,027,771	41.6625%	\$428,195	Page 214, Lines 2, 4, 9
6 7 8	Transmission Accumulated Depreciation Transmission Accum. Depreciation General Plant Accum.Depreciation Total (line 6+ 7)	\$286,989,993 \$4,312,698	99.7176% (a)	\$286,989,993 \$4,300,519 \$291,290,512	41.6625% 41.6625%	\$119,567,206 \$1,791,704 \$121,358,910	FERC Form 1 page 219.25 FERC Form 1 Page 219.28
9 10 11	<u>Transmission Accumulated Deferred Taxe</u> Accumulated Deferred Taxes (281-283) Accumulated Deferred Taxes (190) Total (line 9+ 10)	\$0 -\$191,429,157	100.0000%	\$0 (\$191,429,157) (\$191,429,157)	41.6625% 41.6625%	\$0 (\$79,754,173) (\$79,754,173)	See Note for Page 274, FERC Form 1 See Note for Page 274, FERC Form 1
12	Transmission loss on Reacquired Debt	\$1,283,935	100.0000%	\$1,283,935	41.6625%	\$534,919	Page 111.81c
13 14 15 16	Other Regulatory Assets FAS 106 FAS 109 (Asset Account 182.3) FAS 109 (Liability Account 254) Total (line 13+14+ 15)	\$0 \$64,344,881 \$0 \$64,344,881	99.7176% (a) 100.0000% 100.0000%	\$0 \$64,344,881 \$0 \$64,344,881	41.6625% 41.6625% 41.6625%	\$0 \$26,807,686 \$0 \$26,807,686	Page 232.7f Page 278.9
17	Transmission Prepayments	\$0	99.7176% (a)	\$0	41.6625%	\$0	Page 111.57c
18	Transmission Materials and Supplies	\$3,611,991		\$3,611,991	41.6625%	\$1,504,846	Page 227.8c
19 20 21 22 23 24 25	Cash Working Capital Operation & Maintenance Expense Administrative & General Expense Transmission Support Expense Subtotal (line 20+21+22) Total (line 23 * line 24)					\$15,287,279 \$8,569,518 \$0 \$23,856,797 0.1250 \$2,982,100	Worksheet 1, Line 20 Worksheet 1, Line 21 Worksheet 6 x 45 / 360

(a) Worksheet 5 of 6, line 11(b) Worksheet 5 of 6 line 3(c) Worksheet 5 of 6, line 16

				New En	gland Power Com	pany	PTF Revenue Requirements
Sheet:	Worksheet 4						Worksheet 4 of 5
	Shading denotes an input		(2)		(4)		
	ů i		Mere/Diest	(2) (1)*(2)	PTF	(5) (2)*(4)	
Line		(1)	Wage/Plant Allocation	$(3) = (1)^*(2)$ Transmission	Allocation	(5) = (3)*(4) PTF	FERC Form 1
No.		Total (g)	Factors	Allocated	Factor (b)	Allocated	Reference for col (1)
	Depreciation Expense	\$22.004 705		* ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~	11 00050/	* 4 0 070 470	D 000 7
1 2	Transmission Depreciation General Depreciation	\$26,331,765 \$339,557	99.7176% (a)	\$26,331,765 \$338,598	41.6625% 41.6625%	\$10,970,472 \$141,068	Page 336.7b Page 336.10b
3	Total (line 1+2)	4000 ,001	55.7 17 678 (d)	\$26,670,363 ##		\$11,111,540	1 age 555.165
						i	
4	Amortization of Loss on Reacquired Debt	\$322,402	100.0000% (f)	\$322,402	41.6625%	\$134,321	Page 117.64c
						i	
5	Amortization of Investment Tax Credits	\$406,488	100.0000% (f)	\$406,488	41.6625%	\$169,353	Page 266.8f - Footnote (f)
-		•••••		•••••			· • • • • • • • • • • • • • • • • • • •
6	Property Taxes	\$16,878,393	100.0000% (f)	\$16,878,393	41.6625%	\$7,031,960	Page 263i - Footnote (e)
0		φ10,070,000	100.000070 (1)	φ10,070,000	41.002070	\$7,001,000	
_	Transmission Operation and Maintenance			•••• ••• • ••		* *** * *****	-
7	Operation and Maintenance	\$63,832,583		\$63,832,583	41.6625%	\$26,594,250	Page 321.112b
8 9	Transmission of Electricity by Others - #565 Load Dispatching - #561	\$16,917,655		\$16,917,655 \$10,221,780	41.6625% 41.6625%	\$7,048,318	Page 321.96b
9 10	**Station Expenses & Rents - #562 & #567	\$10,221,789 \$0		\$10,221,789	41.0023%	\$4,258,653 \$0	Page 321.84-87b Page 321.93b & .98b
11	O&M less lines 8, 9 & 10	\$36,693,139		\$36,693,139	41.6625%	\$15,287,279	1 age 521.555 d .565
	Transmission Administrative and General						
12	Total Administrative and General	\$22,288,359					Page 323.197b
13	less Property Insurance (#924)	-\$531,974					Page 323.185b
14	less Regulatory Commission Expenses (#928)	\$3,589,657					Page 323.189b
15	less General Advertising Expense (#930.1)	\$224,120					Page 323.191b
16	Subtotal [line 12 minus (13 thru 15)]	\$19,006,556	99.7176% (a)	\$18,952,881	41.6625%	\$7,896,244	
17	PLUS Property Insurance alloc. using Plant Allocator	-\$531,974	99.1107% <i>(c)</i>	-\$527,243	41.6625%	-\$219,663	Line 13
18		\$1,859,626	99.1107% <i>(c)</i>	\$1,843,088	41.6625%	\$767,877	Attachment 5
19	PLUS Specifically identified T rans. Related General Advertising Expense	\$224,120		\$224,120	41.6625%	\$93,374	
20	PLUS Specifically identified Trans. Related Regulatory Expense	\$76,055		\$76,055	41.6625%	\$31,686	Page 350.17c
21	Total A&G [line 16 + (17 thru 20)]	\$20,634,383		\$20,568,901		\$8,569,518	
22	Payroll Tax Expense	\$1,831,256	99.7176% (a)	\$1,826,085	41.6625%	\$760,792	Footnote (d)
	(a) Worksheet 5 of 6, line 11		(e)	Property Taxes FF	1, Page 263i		
	(b) Worksheet 5 of 8, line 3						
	(c) Worksheet 5 of 8, line 16			Massachusetts New Hampshire	\$13,987,726 \$2,200,310		
	(d) Payroll taxes FERC Form 1, page 263.i			Vermont	\$569,515		
	(,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Maine	\$0		
	Federal Unemployment	-\$1,709		Rhode Island	\$120,842		
	FICA	\$1,832,965		Connecticut	\$0		
	Payroll Taxes	\$0			\$16,878,393		
	State Unemployment	\$0					
	Tatal	¢1 001 0EC					

(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1 (f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Shading denotes an input

FERC Form 1

Line No.			FERC Form 1 Reference
	PTF Transmission Plant Allocation Factor	NEP	
1 2	PTF Transmission Investment Total Transmission Investment	\$503,285,683 \$1,208,005,587	Attachment 1, Page 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	41.6625%	
	Transmission Wages and Salaries Allocation Factor		
4 5 6	Direct Transmission Wages and Salaries Affiliated Company Transmission Wages and Salaries Total Transmission Wages and Salaries (Line 4 + Line 5)	\$0 <u>\$18,886,140</u> \$18,886,140	Page 354.14b 2007 Business Objects Query
7 8 9 10	Total Wages and Salaries Administrative and General Wages and Salaries Affiliated Company Wages and Salaries less A&G Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$0 \$0 <u>\$18,939,620</u> \$18,939,620	Page 354.28b Page 354.27b 2007 Business Objects Query
11	Percent Allocation (Line 6/Line 10)	99.7176%	
12 13 14	Plant Allocation Factor Total Transmission Investment plus Transmission-Related General Plant (Line 2 of Wkst. 3) = Revised Numerator (Line 12 + Line 13)	\$1,208,005,587 \$6,568,213 \$1,214,573,800	Worksheet 3, Line 3, Column 3
15	Total Plant in Service	\$1,225,471,598	Page 207.104g-Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.1107%	
17 18 19	Post-2003 PTF Allocation Factor Total Post-2003 PTF Investment Total Transmission Investment Percent Allocation (Line 17/Line 18) for Post-2003 to Total Tx	\$ 188,364,644 \$1,208,005,587 15.5930%	Attachment 1, Page 1
20 21	Total Invst in Tx Plant/Total Plant in Serv * Post-2003 PTF Tx Plant/Total Invst in Tx Plant	15.4544%	

Sheet: Support

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			ΤΟΤΑ	L
Participant	PTF Supporting Facilities	FERC Form 1	Revenues	Expenses
			(a)	(b)
BECO	345 kV Sherman - Medway 336 line	 ·共	ا - ــــــــــــــــــــــــــــــــــــ	
	115 kV Somerville 402 Substation		i-	
	115/345 kV North Cambridge 509 Substation			
	345 kV Golden Hills -Mystic 389 (x&y) line	_ I		\$(
	West Medway 345 kV breaker	Page 332 Line 6 Column (g)	i	\$0
	115 kV Millbury-Medway 201 line	Page 332 Line 2 Column (g)		\$0
	HQ Phase II - AC in MA	Page 332 Line 5 Column (g)		\$(
	345 kV "stabilizer" 342 line	Page 332 Line 3 Column (g)		\$0
	345 kV Walpole - Medway 325 line			
	345 kV Carver - Walpole 331 line	Page 332 Line 4 Column (g)		\$0
	345 kV Jordan Rd - Canal 342 line			
		· <u>+</u>		
CEC	Second Canal line	Page 332 Line 7 Column (g)		\$0
020	345 kV Pilgrim-Bridgewater - 355 line	T	·-··-+··	<u>\$</u> 0
	345 kV Pilgimi-bildgewaler - 355 line 345 kV Myles Standish - Canal 342 line	+		<u>\$</u>
		·+		
CMP	Bell Rock Road		\$0	\$0 \$0
CIVIP	345 kV Buxton-South Gorham 386 line			
	115 kV Wyman 164-167 lines	Page 332.1 Line 3		\$0
	115 kV Maine Yankee transmission	44-		
EUA	345 kV Carver - Walpole 331 line		\$0	
	345 kV Medway - Bridgewater 344 Line		\$0	
	Northern Rhode Island transmission		N/A	N/A
		· † · ·		
NEP	Chester SVC			\$0
	Fitchburg Support			\$0
	MWRA Transmission	+	+	\$C
	Comerford 115 kV Substation	Page 330.1 Line 12	\$0	
	Boston-Edison [345 kV Sandy-Tewksbury 337 line		· · · · · · · · · · · · · · · · · ·	
		Page 330 Line 4	\$0	
	345 kV Tewksbury-Woburn 338 line]		ψΟ	
	Boston-Edison [115 kV Tewksbury - Woburn M139 line			
	115 kV Tewksbury - Woburn N140 line]	Page 330 Line 3	\$0 \$0	
	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5	<u>\$0</u>	
	HQ Phase II - AC in MA	Page 300 Line 10	\$0	\$0
	Boston Edison -345 kV Golden Hills-Mystic 349 line	Page 300 Line 2	\$0	
	345 kV NH/MA border-Tewksbury 394 line	Page 300.1 Line 8	\$0	<u>\$</u> (
	115 kV Read - Washington V148 line	Page 300.1 Line 3	\$0	\$C
		<u> </u>		
NU	PSNH 345 kV 363, 369 and 394 Seabrook lines	Page 332 Line 11 & Montuap Fin		\$0
	Fairmont 115 kV Substation		-	
	345 kV Millstone-Manchester 310 line	Page 332.1 Line 5		\$0
	UI Substations			·
	Black Pond	+	# !	
	Total	· · · ·	\$0	\$0

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 21, Column 5)

New England Power Company	
2008 Informational Filing	Percent
PTF Plant Allocation	Pre /
	Post

1	2007	Pre-1997 PTF Transmission Plant	\$358,707,072	
2	2007	Post-1996 PTF Transmission Plant	\$457,529,370	
3	2008	Additions/Retirements	\$41,045,094	
4	2008	Pre-1997 PTF Transmission Plant	<mark>\$353,995,853</mark>	41.29%
5	2008	Post-1996 PTF Transmission Plant	\$503,285,683	58.71%
6	2008	Total PTF Transmission Plant	\$857,281,536	100.00%
7	2008	Post-2003 PTF Transmission Plant	\$ 188,364,644	

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5
- 7 PTF Plant Report: Post 2003 RSP Projects

GROSS PLANT ASSOC. WITH HVDC LEASES 2008

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$0
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	0 0 0%
5	Total Gross Plant leased by NHH (a)	\$0
6	Total Land from Sandy Pond to New Hampshire	\$0
7	HVDC lines occupy 35% of Right of Way	0%
8	Total Land leased by NEH (a)	\$0
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$0
<u>Sourc</u> 1	e <u>e:</u> FERC Form 1, Page 423.1, Lines 5 + 16	

- 2 Total miles used per lease agreement
- 3 Total miles per lease agreement
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		2008
1	Total Current Year Book Depreciation on Equity AFUDC	\$751,996
2	Less: Specifically identified Transmission-Related	
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$21,209
	2008 Transmission	\$28,754
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission Only 1990 - 1999	\$9,713
	1998 Transmission	\$13,959
	1999 Transmission 2000 Transmission	\$42,457
	2000 Transmission 2001 Transmission	(\$8,299) \$23,561
		\$364,621
		φ304,02 I
3	Total unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.1107%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$383,930
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$364,621</u>
7	Total Transmission-Related Equity AFUDC	\$748,551
8	Post-96 PTF Allocation Factor	41.6625%
9	Transmission-Related Equity AFUDC	\$311,865

Sources:

- 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 5 Pre-97 or Post-96 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2008</u>	MECO <u>2008</u>
1	Total Integrated Facilities Charges (*)	\$0	\$0
2 3 4	Total 2008 PTF Property Total Transmission Plant in 2008 NECO or MECO PTF Plant Allocator	\$0 \$0 0.00%	\$0 \$0 0.00%
5	PTF Related Integrated Facilities Charge	\$0	\$0

Source:

- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- (*) Includes Rental Expenses from Montaup Financials

New England Power Company Development of 2008 Regulatory Commission Expense

		<u>2008</u>	Source
1	Total Regulatory Commission Expense - NEP	\$3,589,657	FERC FF1 p350.46d
2	Less: New Hampshire PUC Assessment	\$42,981	FERC FF1 p350.2d
3	Less: Mass Emergency Fund	\$0	FERC FF1 p350.8d
4	Less Mass DPU Special Assessment	\$237,488	
5	Less: Utility Expenses	\$1,449,562	FERC FF1 p350.46c
6	Total Federal Assessments	\$1,859,626	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property Attachment 6 New England Power Company

	<u>2008</u>
Revenues	\$752,168
Plant Allocation Factor	100.00%
Transmission Allocated	\$752,168
PTF Allocation	41.6625%
Total PTF Revenue	\$313,372

New England Power Company

	<u>2008</u>
Revenues	\$1,183,025
Post-96 PTF Percent	58.7072%
Total Post-96 PTF Revenue	\$694,521

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Shading denotes an input

Submitted on:	
Revenue Requirements for (year):	Calendar Year 2008
Rates Effective for the Period: Through:	June 2009 May 2010
Customer:	New England Power Company
Customer's NABs Number:	
Name of Participant responsible for customer's billing:	

DUNs number of Participant responsible for customer's billing:

	Pre-97 Revenue <u>Requirements</u>	Post-96 Revenue <u>Requirements</u>
Total of Attachment F - Sections A through I	\$91,613,205 (a)	\$88,628,221 (f)
Total of Attachment F - Section J - Support Revenue	\$9,231,767 (b)	\$0 (g)
Total of Attachment F - Section K - Support Expense	\$1,381,011 (c)	\$0 (h)
Total of Attachment F - Section (L through O)	(\$708,921) (d)	(\$1,007,893) ()
Sub Total - Sum (A through I) - J + K + (L through O)	\$83,053,527 (e)=(a)-(b)+(c)+(d)	\$87,620,328 ()
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A	\$28,985,933 (k)
Annual True-up (per Attachment C to Attacment F Im[plementation Rule)	N/A ()	N/A (m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$83,053,527 (n)=(e) + (l)	\$116,606,261 (o)=(j)+(k)+(m)
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirem and Post-96 Revenue Requirements Subtotals for rate calculations under		\$199,659,789 (p) = (n) + (o)

New England Power Company Annual Revenue Requirements of PTF Facilities for costs in 2008

PTF Revenue Requirements Worksheet 1 of 6

			S III 2008	
		PRE	-1997	
S	hading denotes an input			
		Attachment F		
	I. INVESTMENT BASE	Reference	NEP	Reference
Line No.		Section:		
1	Transmission Plant	(A)(1)(a)	\$341,203,075	Worksheet 3, line 1&2 column 5
2	General Plant	(A)(1)(b)	\$1,924,762	Worksheet 3, line 3 column 5
3	Plant Held For Future Use	(A)(1)(c)	\$301,180	Worksheet 3, line 5 column 5
4	Total Plant (Lines 1+2+3)		\$343,429,017	
5	Accumulated Depreciation	(A)(1)(d)	\$85,360,355	Worksheet 3, line 8 column 5
6	Accumulated Deferred Income Taxes	(A)(1)(e)	\$56,096,783	Worksheet 3, line 11 column 5
7	Loss On Reacquired Debt	(A)(1)(f)	\$376,247	Worksheet 3, line 12 column 5
8	Other Regulatory Assets	(A)(1)(g)	\$18,855,753	Worksheet 3, line 16 column 5
9	Net Investment (Line 4-5-6+7+8)	()()(0)	\$221,203,879	
10	Prepayments	(A)(1)(h)	\$0	Worksheet 3, line 17 column 5
11	Materials & Supplies	(A)(1)(i)	\$1,058,465	Worksheet 3, line 18 column 5
12	Cash Working Capital	(A)(1)(j)	\$2,097,523	Worksheet 3, line 25 column 5
13	Total Investment Base (Line 9+10+11+12)		\$224,359,867	
١١.	REVENUE REQUIREMENTS			
14	Investment Return and Income Taxes	(A)	\$29,735,176	Worksheet 2
14	Depreciation Expense	(A) (B)	\$7,815,536	Worksheet 4, line 3, column 5
15	Amortization of Loss on Reacquired Debt	(C)	\$94,477	Worksheet 4, line 4, column 5
10	Investment Tax Credit	(C) (D)	\$94,477 (\$119,118)	Worksheet 4, line 5, column 5
18	Property Tax Expense	(E)	\$4,946,078	Worksheet 4, line 6, column 5
10	Payroll Tax Expense	(E) (F)	\$535,119	Worksheet 4, line 22, column 5
20		(F) (G)	\$10,752,632	Worksheet 4, line 11, column 5
	Operation & Maintenance Expense	· · ·		
21 22	Administrative & General Expense	(H)	\$6,027,552	Worksheet 4, line 21, column 5
	Transmission Related Integrated Facilities Charge	(1)	\$31,825,752	Attachment 4, line 6
23	Transmission Support Revenue	(J)	(\$9,231,767) \$1,281,011	Worksheet 6
24	Transmission Support Expense	(K)	\$1,381,011	Worksheet 6
25	Transmission Related Expense from Generators	(L)	\$0 \$0	Worksheet 7
26	Transmission Related Taxes and Fees Charge	(M)	\$0	Attack mark 7
27	Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$488,504)	Attachment 7
28	Transmission Rents Received from Electric Property	(O)	(\$220,417)	Attachment 6
29	Total Revenue Requirements (Line 14 thru 28)		\$83,053,527	

New England Power Company Annual Revenue Requirements For Costs in 2008

Shading denotes an input

			PR	ONG-TERM DEBT EFERRED STOCK COMMON EQUITY STMENT RETURN	CAPITALIZATION 12/31/2008 \$410,350,000 \$1,111,700 \$786,651,891 \$1,198,113,591	-	CAPITALIZATION RATIOS 34.25% 0.09% 65.66% 100.00%	COST OF CAPITAL 2.28% 6.02% 11.64%	COST OF CAPITAL 0.78% 0.01% 7.64% 8.43%	EQUITY PORTION 0.01% 7.64% 7.65%
Cost of Capital Rate=										
(a) Weighted Cost of Capital	=	0.0843								
(b) Federal Income Tax	=	(<u>R.O.E. +</u> (<u>1</u>	PTF Inv. ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x -	Federal Income Tax I Federal Income Tax I			
	=	(<u>0.0765</u> +	-((\$119,118) +	\$219,357)/	\$224,359,867) x	0.35 0.35)		
	=	0.0414329				-	0.35)		
(c) State Income Tax	=	(<u>R.O.E. +</u>	PTF Inv. ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	+	Federal Income Ta State Income Tax R		State Income Tax Ra	ate
	=	(<u>0.0765</u> +	-((\$119,118) +	\$219,357)/	\$224,359,867) + -	0.0414329 0.054326)")	0.054	326
	=	0.0068005								
(a)+(b)+(c) Cost of Capital Rate	=	0.1325334								
		(PTF)								
INVESTMENT BASE		\$224,359,867	From Worksheet 1							
x Cost of Capital Rate		0.1325334								
= Investment Return and Income Taxes		\$29,735,176	To Worksheet 1							
Source: Attachment 2										

Source: Attachment 2

Shading denotes an input

PTF Revenue Requirements Worksheet 3 of 6

	Shauling denotes an input		(0)		(1)		
Line No.	_	(1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	FERC Form 1 Reference for col (1)
1	Transmission Plant			\$0		\$353,995,853	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases					(\$12,792,778)	Attachment 1, Page 2
3	General Plant	\$6,586,812	99.7176% (a)		29.3042%	\$1,924,762	FERC Form 1 page 207.99g
4	Total (line 1+2+3)			\$6,568,211		\$343,127,837	
5	Transmission Plant Held for Future Use	\$1,027,771		\$1,027,771	29.3042%	\$301,180	Page 214, Lines 2, 4, 9
	Transmission Accumulated Depreciation						
6	Transmission Accum. Depreciation	\$286,989,993		\$286,989,993	29.3042%	\$84,100,122	FERC Form 1 page 219.25
7	General Plant Accum.Depreciation	\$4,312,698	99.7176% (a)		29.3042%	\$1,260,233	FERC Form 1 Page 219.28
8	Total (line 6+ 7)			\$291,290,512		\$85,360,355	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	\$0	100.0000%	\$0	29.3042%	\$0	See Note for Page 274, FERC Form 1
10	Accumulated Deferred Taxes (190)	-\$191,429,157	100.0000%	(\$191,429,157)	29.3042%	(\$56,096,783)	See Note for Page 274, FERC Form 1
11	Total (line 9+ 10)			(\$191,429,157)		(\$56,096,783)	
12	Transmission loss on Reacquired Debt	\$1,283,935	100.0000%	\$1,283,935	29.3042%	\$376,247	Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$0	99.7176% (a)	\$0	29.3042%	\$0	
14	FAS 109 (Asset Account 182.3)	\$64,344,881	100.0000%	\$64,344,881	29.3042%	\$18,855,753	Page 232.7f
15	FAS 109 (Liability Account 254)	\$0	100.0000%	\$0	29.3042%	\$0	
16	Total (line 13+14+ 15)	\$64,344,881		\$64,344,881		\$18,855,753	
17	Transmission Prepayments	\$0	99.7176% (a)	\$0	29.3042%	\$0	Page 111.57c
18	Transmission Materials and Supplies	\$3,611,991		\$3,611,991	29.3042%	\$1,058,465	Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$10,752,632	Worksheet 1, Line 20
21	Administrative & General Expense					\$6,027,552	Worksheet 1, Line 21
22	Transmission Support Expense					\$0	Worksheet 6
23	Subtotal (line 20+21+22)					\$16,780,184	
24						0.1250	x 45 / 360
25	Total (line 23 * line 24)					\$2,097,523	

(a) Worksheet 5 of 6, line 11(b) Worksheet 5 of 6 line 3(c) Worksheet 5 of 6, line 16

Shading denotes an input

PTF Revenue Requirements Worksheet 4 of 6

	Shauling denotes an input						
			(2) Wage/Plant	(3) = (1)*(2)	(4) PTF	$(5) = (3)^{*}(4)$	
Line		(1)	Allocation	Transmission	Allocation	PTF	FERC Form 1
No.		Total (g)	Factors	Allocated	Factor (b)	Allocated	Reference for col (1)
	Depreciation Expense						
1	Transmission Depreciation	\$26,331,765		\$26,331,765	29.3042%	\$7,716,313	Page 336.7b
2	General Depreciation	\$339,557	99.7176% (a)	\$338,598	29.3042%	\$99,223	Page 336.10b
3				\$26,670,363		\$7,815,536	
		\$ 222 422	100.00000 (1)	* ~~~ * ~~	00.00.000/	A O (177	D 11701
4	Amortization of Loss on Reacquired Debt	\$322,402	100.0000% (f)	\$322,402	29.3042%	\$94,477	Page 117.64c
5	Amortization of Investment Tax Credits	\$406,488	100.0000% (f)	\$406,488	29.3042%	\$119,118	Page 266.8f - Footnote (f)
5	Amonization of investment Tax oredits	φ+00,+00	100.000070 (1)	φ+00,+00	23.304270	φ113,110	
6	Property Taxes	\$16,878,393	100.0000% (f)	\$16,878,393	29.3042%	\$4,946,078	Page 263i - Footnote (e)
	Transmission Operation and Maintenance						
7	Operation and Maintenance	\$63,832,583		\$63,832,583	29.3042%	\$18,705,628	Page 321.112b
8	Transmission of Electricity by Others - #565	\$16,917,655		\$16,917,655	29.3042%	\$4,957,583	Page 321.96b
9	Load Dispatching - #561	\$10,221,789		\$10,221,789	29.3042%	\$2,995,413	Page 321.84-87b
10	**Station Expenses & Rents - #562 / #567	\$0 \$26,602,420		£26 602 420	20.20420/	\$0 \$10 752 622	Page 321.93b & .98b
11	O&M less lines 8, 9 & 10	\$36,693,139		\$36,693,139	29.3042%	\$10,752,632	
	Transmission Administrative and General						
12	Total Administrative and General	\$22,288,359					Page 323.197b
13	less Property Insurance (#924)	-\$531,974					Page 323.185b
14	less Regulatory Commission Expenses (#928)	\$3,589,657					Page 323.189b
15	less General Advertising Expense (#930.1)	\$224,120					Page 323.191b
16	Subtotal [line 12 minus (13 thru 15)]	\$19,006,556	99.7176% (a)	\$18,952,881	29.3042%	\$5,553,990	-
17	PLUS Property Insurance alloc. using Plant Allocation	-\$531,974	99.1107% (c)	-\$527,243	29.3042%	-\$154,504	Line 13
18	PLUS Regulatory Comm. Exp.	\$1,859,626	99.1107% <i>(c)</i>	\$1,843,088	29.3042%	\$540,102	Attachment 5
19	PLUS Specifically identifed T rans. Related General Advertising Expense	\$224,120		\$224,120	29.3042%	\$65,677	Business Obj Query
20	PLUS Specifically identified Trans. Related Regulatory Expense	\$76,055		\$76,055	29.3042%	\$22,287	Page 350.17c
21	Total A&G [line 16 + (17 thru 20)]	\$20,634,383		\$20,568,901		\$6,027,552	
00		\$4 004 0F0	00 74700((-)	¢4,000,005	00.00400/	<i>ФЕОБ</i> 140	
22	Payroll Tax Expense	\$1,831,256	99.7176% (a)	\$1,826,085	29.3042%	\$535,119	Footnote (d)
	(a) Worksheet 5 of 6, line 11		(e)	Property Taxes F	F1. Page 263i		
	(b) Worksheet 5 of 8, line 3		(-)		,		
	(c) Worksheet 5 of 8, line 16			Massachusetts	\$13,987,726		
				New Hampshire	\$2,200,310		
	(d) Payroll taxes FERC Form 1, page 263.i			Vermont	\$569,515		
				Maine	\$0		
	Federal Unemployment	-\$1,709		Rhode Island	\$120,842		
	FICA	\$1,832,965		Connecticut	\$0		
	Payroll Taxes	\$0			\$16,878,393		
	State Unemployment	\$0					
	Total	\$1,831,256					

 Total
 \$1,831,256

 (e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
 (f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Shading denotes an input

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1 2	PTF Transmission Investment	\$353,995,853 \$1,208,005,587	Attachment 1, Page 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	29.3042%	
	Transmission Wages and Salaries Allocation Factor		
4 5 6	Direct Transmission Wages and Salaries Affiliated Company Transmission Wages and Salaries Total Transmission Wages and Salaries (Line 4 + Line 5)	\$0 <u>\$18,886,140</u> \$18,886,140	Page 354.14b 2008 Business Objects Query
7 8 9 10	Total Wages and Salaries Administrative and General Wages and Salaries Affiliated Company Wages and Salaries less A&G Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$0 \$0 <u>\$18,939,620</u> \$18,939,620	Page 354.28b Page 354.27b 2008 Business Objects Query
11	Percent Allocation (Line 6/Line 10)	99.7176%	
	Plant Allocation Factor		
12 13 14	Total Transmission Investment plus Transmission-Related General Plant (Line 2 of Wkst. 3) = Revised Numerator (Line 12 + Line 13)	\$1,208,005,587 <u>\$6,568,211</u> \$1,214,573,798	Worksheet 3, Line 3, Column 3
15	Total Plant in Service	\$1,225,471,598	Page 207.104g-Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.1107%	
Sheet: Support

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			TOTA	<u> </u>
Participant	PTF Supporting Facilities	FERC Form 1	Revenues (a)	Expenses (b)
BECO	345 kV Sherman - Medway 336 line		i	
	115 kV Somerville 402 Substation			
	115/345 kV North Cambridge 509 Substation	14092582		
	345 kV Golden Hills -Mystic 389 (x&y) line	Contract Suspended Oct. 1997		\$0
	West Medway 345 kV breaker	Pg 332 Line 6 Col (g)		\$0
	115 kV Millbury-Medway 201 line	Pg 332 Line 2 Col (g)		\$14,576
	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$100,648
	345 kV "stabilizer" 342 line	Pg 332 Line 3 Col (g)		\$171,978
	345 kV Walpole - Medway 325 line			
	345 kV Carver - Walpole 331 line	Pg 332 Lines 12 & 13 Col (g)	··-··	\$306,744
	345 kV Jordan Rd - Canal 342 line			
CEC	Second Canal line			\$47,040
	345 kV Pilgrim-Bridgewater - 355 line			<u> </u>
	345 kV Myles Standish - Canal 342 line			\$C
	Bell Rock Road	Page 330.5 Line 12	\$17,268	<u></u>
CMP	345 kV Buxton-South Gorham 386 line	Page 332.1, Line 4	¢,====	\$C
	115 kV Wyman 164-167 lines	Pg 332.1 Line 3 Col (g)		\$C
	115 kV Maine Yankee transmission		··-··	
NEP	345 kV Carver - Walpole 331 line		\$0 ¹	
	345 kV Medway - Bridgewater 344 Line	Pg 330.5, Line 11	\$92,568	
	Northern Rhode Island transmission	Reflect in Integr. Fac. Chg. Wksh1	N/A	N/A
				¢700.000
NEP	Chester SVC	Tx Billing	<mark></mark>	\$730,025
	Fitchburg Support	See Attachment 9	<mark></mark>	<u> </u>
	MWRA Transmission (MDC)	Contract		\$10,000
VT Elec Co.	Comerford 115 kV Substation	Page 328.1 Line 12	\$42,602	
	Boston-Edison [345 kV Sandy-Tewksbury 337 line	·· _ · · _ · _ · _ · _ · _ · _ · _ · _		
	345 kV Tewksbury-Woburn 338 line]	Page 330 Line 4	\$903,852	
	Boston-Edison [115 kV Tewksbury - Woburn M139 line	ii <mark>.</mark> i		
	115 kV Tewksbury - Woburn N140 line]	Page 330 Line 3	\$160,908	
	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5	\$13,319	
	HQ Phase II - AC in MA	Page 330 Line 11	\$4,616,942	
	Boston Edison -345 kV Golden Hills-Mystic 349 line	Page 330 Line 2	\$562,484	
	345 kV NH/MA border-Tewksbury 394 line (Seabrook)	Page 330.1 Line 8	<u>\$2,821,824</u>	
	F			
NU	PSNH 345 kV 363, 369 and 394 Seabrook lines	Page 332 Line 11	<u> </u>	\$0
	Fairmont 115 kV Substation	İİ	<mark></mark>	
	345 kV Millstone-Manchester 310 line	Page 332.1 Line 5		\$0
	UI Substations Black Pond			
		tal =	\$9,231,767	\$1,381,011

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 21, Column 5)

\$0

		New England Power Company 2008 Informational Filing PTF Plant Allocation		Percent Pre Post
1	2007	Pre-1997 PTF Transmission Plant	\$358,707,072	
2	2007	Post-1996 PTF Transmission Plant	\$457,529,370	
3	2008	Additions/Retirements	\$41,045,094	
4	2008	Pre-1997 PTF Transmission Plant	\$353,995,853	41.29%
5	2008	Post-1996 PTF Transmission Plant	\$503,285,683	58.71%
6	2008	Total PTF Transmission Plant	\$857,281,536	100.00%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5

GROSS PLANT ASSOC. WITH HVDC LEASES 2008

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$13,938,907
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	224 253 89%
5	Total Gross Plant leased by NHH (a)	\$12,405,627
6	Total Land from Sandy Pond to New Hampshire	\$1,106,146
7	HVDC lines occupy 35% of Right of Way	35%
8	Total Land leased by NEH (a)	\$387,151
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$12,792,778
500000 1 2 3	e <u>e:</u> FERC Form 1, Page 422.1-423.1, Lines 5 + 16 Total miles used per lease agreement FERC Form 1, Page 422.1 Lines 5 + 16 col (f)	

- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2008</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$751,996
2	Less: Specifically Identified Transmission-Related	
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$21,209
	2008 Transmission	\$28,754
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission Only 1990 - 1999	\$9,713
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	<u>\$23,561</u>
		\$364,621
3	Total Unidentified Book Depreciation on Equity AFUDC	\$387,375
•		<i>\\</i>
4	Plant Allocator Factor	99.1107%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$383,930
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$364,621</u>
7	Total Transmission-Related Equity AFUDC	\$748,551
8	Pre-97 PTF Allocation Factor	29.3042%
9	Transmission-Related Equity AFUDC	\$219,357

Sources:

- 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 5 Pre-97 or Post-96 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2008</u>	MECO <u>2008</u>
1	Total Integrated Facilities Charges (*)	\$38,882,752	\$8,331,313
2 3 4	Total 2008 PTF Property Total Transmission Plant in 2008 NECO or MECO PTF Plant Allocator	\$170,859,376 \$237,350,850 71.99%	\$20,288,739 \$44,069,025 46.04%
5	PTF Related Integrated Facilities Charge	\$27,990,137	\$3,835,616
6	Total Integrated Facilities	=	\$31,825,752

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 col (n)
- 2 PowerPlant Reportss
- 3 FF1 Page 207 Line 58
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric
- (*) Includes Rental Expenses from Montaup Financials

New England Power Company Development of 2008 Regulatory Commission Expense

		<u>2008</u>	<u>Source</u>
1	Total Regulatory Commission Expense - NEP	\$3,589,657	FERC FF1 p350.46d
2	Less: New Hampshire PUC Assessment	\$42,981	FERC FF1 p350.2d
3	Less: Mass Emergency Fund	\$0	FERC FF1 p350.7d
4	Less Mass DPU Special Assessment	\$237,488	FERC FF1 p350.8d
5	Less: Utility Expenses	\$1,449,562	FERC FF1 p350.46c
6	Total Federal Assessments	\$1,859,626	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property New England Power Company

	<u>2008</u>
Revenues	\$752,168
Plant Allocation Factor	100.00%
Transmission Allocated	\$752,168
PTF Allocation	29.3042%
Total PTF Revenue	\$220,417

New England Power Company

	<u>2008</u>
Revenues	\$1,183,025
Pre-97 PTF Percent	41.2928%
	•
Total Pre-97 PTF Revenue	\$ 488,504

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Shading denotes an input

Submitted on:	<u> </u>			
Revenue Requirements for (year):		Calend	ar Year 2009	
Rates Effective for the Period: Through:			ne 2010 ay 2011	
Customer:	New England Po	ower Compar	ıy	
Customer's NABs Number:	<u> </u>			
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:				
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$90,404,997	(a)	\$110,240,121	(f)
Total of Attachment F - Section J - Support Revenue	\$7,130,058	(b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$963,053	(c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$547,552)	(d)	(\$1,032,676)	(i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$83,690,440	(e)=(a)-(b)+(c)+(d)	\$109,207,445	(j)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A		\$25,171,563	(k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	N/A	(1)	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$83,690,440	(n)=(e)+(l)	\$134,379,008	(o)=(j)+(k)+(n
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest)			\$218,069,448	(p) = (n) + (o)

PTF Revenue Requirements Worksheet 1 of 7

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2009

			POST-	1996	
	Sha	ding denotes an input			
			Attachment F		
	١.	INVESTMENT BASE	Reference	NEP	Reference
Line No.			Section:		
1		Transmission Plant	(A)(1)(a)	\$664,596,724	Worksheet 3, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$3,164,504	Worksheet 3, line 3 column 5
3		Plant Held For Future Use	(A)(1)(c)	\$496,668	Worksheet 3, line 5 column 5
4		Total Plant (Lines 1+2+3)		\$668,257,896	
5		Accumulated Depreciation	(A)(1)(d)	\$148,983,596	Worksheet 3, line 8 column 5
6		Accumulated Deferred Income Taxes	(A)(1)(e)	\$134,031,553	Worksheet 3, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(f)	\$478,726	Worksheet 3, line 12 column 5
8		Other Regulatory Assets	(A)(1)(g)	\$29,678,590	Worksheet 3, line 16 column 5
9		Net Investment (Line 4-5-6+7+8)		\$415,400,063	
10		Prepayments	(A)(1)(h)	\$0	Worksheet 3, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$1,877,837	Worksheet 3, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$3,777,107	Worksheet 3, line 25 column 5
13		Total Investment Base (Line 9+10+11+12)		\$421,055,007	
	II.	REVENUE REQUIREMENTS			
14		Investment Return and Income Taxes	(A)	\$55,185,546	Worksheet 2
15		Depreciation Expense	(B)	\$13,815,406	Worksheet 4, line 3, column 5
16		Amortization of Loss on Reacquired Debt	(C)	\$141,733	Worksheet 4, line 4, column 5
17		Investment Tax Credit	(D)	(\$196,264)	Worksheet 4, line 5, column 5
18		Property Tax Expense	(E)	\$10,128,938	Worksheet 4, line 6, column 5
19		Payroll Tax Expense	(F)	\$947,908	Worksheet 4, line 22, column 5
20		Operation & Maintenance Expense	(G)	\$16,615,219	Worksheet 4, line 11, column 5
21		Administrative & General Expense	(H)	\$13,601,635	Worksheet 4, line 21, column 5
22		Transmission Related Integrated Facilities Charge	(I)	\$0	Attachment 4, line 6
23		Transmission Support Revenue	(J)	\$0	Worksheet 6
24		Transmission Support Expense	(K)	\$0	Worksheet 6
25		Transmission Related Expense from Generators	(L)	\$0	Worksheet 7
26		Transmission Related Taxes and Fees Charge	(M)	\$0	
27		Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$603,747)	Attachment 7
28		Transmission Rents Received from Electric Property	(O)	(\$428,929)	Attachment 6
29		Total Revenue Requirements (Line 14 thru 28)		\$109,207,445	

New England Power Company Forecasted Transmission Revenue Requirements of PTF Facilities

POST-1996

			01-1330			
	Sha	ading denotes an input				
				Attachment F		
	١.	FORECASTED TRANSMISSION REVENUE REQUIREMENTS	Period	Reference	NEP	Reference
				Section:		
Line No.						
1		Forecasted Transmission Plant Additions	2009	Appendix C	\$151,750,000	
2		Carrying Charge Factor		Appendix C	16.59%	
3		Total Forecasted Revenue Requirements (Lines 1*2)			\$25,171,563	
	II.	CARRYING CHARGE FACTOR				
4		Investment Return and Income Taxes		(A)	\$55,185,546	Summary, line 14
5		Depreciation Expense		(B)	13,815,406	Summary, line 15
6		Amortization of Loss on Reacquired Debt		(C)	141,733	Summary, line 16
7		Investment Tax Credit		(D)	(196,264)	Summary, line 17
8		Property Tax Expense		(E)	10,128,938	Summary, line 18
9		Payroll Tax Expense		(F)	947,908	Summary, line 19
10		Operation & Maintenance Expense		(G)	16,615,219	Summary, line 20
11		Administrative & General Expense		(H)	13,601,635	Summary, line 21
12		Total Expenses (Lines 4 thru 11)			\$110,240,121	
13		PTF Transmission Plant		(A)(1)(a)	\$664,596,724	Summary, line 1
14		Carrying Charge Factor (Lines 12/13)			16.59%	

New England Power Company Annual Revenue Requirements For Costs in 2009

Shading denotes an input

						CAPITALIZATION 12/31/2009	CAPITALIZATION RATIOS	COST OF CAPITAL	COST OF CAPITAL	EQUITY PORTION
				LONG-TEF PREFERRE COMMON		\$410,350,000 \$1,111,700 \$745,076,320	35.48% 0.10% 64.42%	1.58% 6.02% 11.64%	0.56% 0.01% 7.50%	0.01% 7.50%
				TOTAL INVESTMENT	RETURN	\$1,156,538,020	100.00%		8.07%	7.51%
Cost of Capital Rate=										
(a) Weighted Cost of Capital	=	0.0807								
(b) Federal Income Tax	= (<u>R.O.E. + (</u> 1	PTF Inv. (Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x Federal Income - Federal Income			
	= (0.0751 +(1	(\$196,264) +		\$433,647) /	\$421,055,007)	x 0.35 - 0.35)		
	=	0.0407420								

(c) State Income Tax

=		0.0407	420										
=	(R.O.E. +	(PTF Inv. (Tax Credit	+	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)		+	Federal Income Tax State Income Tax Rate)*	State Income Tax Rate
=	(0.0751	+((\$196,264)	+		\$433,647)/	\$421,055,007)	+	0.0407420 0.053641)*	0.053641

(a)+(b)+(c) Cost of Capital Rate

	(PTF)	
INVESTMENT BASE	\$421,055,007	From Worksheet 1
x Cost of Capital Rate	0.1280400	
= Investment Return and Income Taxes	\$53,911,883	To Worksheet 1

0.0065980

0.1280400

=

= _

Source: Attachment 2

Post 2003 PTF Investment Base w/ Incremental 10	IO bps:		
Plant		\$ 206,004,443	From Attachment 1
Accum. Depreciation		\$ 45,482,926	From Worksheets 3 & 5
Accum. Deferred		\$ 41,220,054	From Worksheets 3 & 5
Total Post-2003 Investment		\$ 119,301,463	Calculated
Incremental ROE:	1.00%	0.00644	Calculated
FIT:		0.00347	Per Attach. F
State Income Taxes:		0.00056	Per Attach. F
Cost of Capital Rate		 0.01047	
Incremental Return and Taxes on Post-2003 PTF I	nvestment	\$ 1,249,388	

Plant	\$	5,893,661	PowerPlant PTF 4 & 5 reports - PTF only
Accum. Depreciation	\$	1,301,239	From Worksheets 3 & 5
Accum. Deferred	\$	1,179,281	From Worksheets 3 & 5
Total NEEWS Investment	\$	3,413,142	Calculated
Incremental ROE:	1.25%	0.00438	Calculated
FIT:		0.00236	Per Attach. F
State Income Taxes:		0.00038	Per Attach. F
Cost of Capital Rate		0.00711	
Incremental Return and Taxes on NEFW	S PTF Investment \$	24.275	

	ocation Factor	
INEEWS AII		
	Total Trans Investment	\$1,375,270,230
	Total NEEWS In-Service	\$5,893,661
	For Accum Depreciation	0.4285%
	Post-2003 PTF Allocation Factor	0.4285%
	Plant Allocation Factor	0.992163
	For Accum Deferred	0.4252%
1		

)	From Worksheets 3 & 5	
	From Worksheets 3 & 5	
!	Calculated	
	Calculated	
;	Per Attach. F	
	Per Attach. F	

Worksheet 1, Line 21

Worksheet 6

x 45 / 360

Line (1) Allocation Transmission Allocation PTF No. Total Factors Allocated Allocated Source Reference for Col (1) Factor (b) 1 Transmission Plant \$0 \$664,596,724 Attachment 1, Page 1 2 Less: Plant Assoc. HVDC Leases Attachment 1, Page 2 \$0 3 General Plant \$6,563,943 99.7633% (a) \$6,548,406 48.3248% \$3,164,504 FERC Form 1 page 207.99 \$667,761,228 4 Total (line 1+2+ 3) \$6,548,406 5 Transmission Plant Held for Future Use \$1,027,771 \$1,027,771 48.3248% \$496,668 FERC Form 1 page 214.2,4,9 Transmission Accumulated Depreciation Transmission Accum. Depreciation 6 \$303,640,607 \$303,640,607 48.3248% \$146,733,716 FERC Form 1 page 219.25 99.7633% (a) General Plant Accum.Depreciation 48.3248% \$2,249,880 \$4,666,793 \$4,655,747 FERC Form 1 Page 219.28 7 8 \$148,983,596 Total (line 6+7) \$308 296 354 Transmission Accumulated Deferred Taxes 9 Accumulated Deferred Taxes (281-283) -\$430,463,140 99.2163% (\$427,089,600) 48 3248% (\$206.390.195) FERC Form 1 page 113.62-64 10 Accumulated Deferred Taxes (190) \$150,916,705 99.2163% \$149,733,971 48.3248% \$72,358,642 FERC Form 1 page 111.82 11 Total (line 9+ 10) 277.355. (\$134.031.55 \$990,643 \$990,643 48.3248% \$478,726 FERC Form 1 Page 111.81c 12 Transmission Loss on Reacquired Debt 100.0000% Other Regulatory Assets 13 FAS 106 \$0 99.7633% (a) \$0 48.3248% \$0 \$29,678,590 14 FAS 109 (Asset Account 182.3) \$61,414,823 100.0000% \$61,414,823 48.3248% FERC Form 1 Page 232.7f FAS 109 (Liability Account 254) Total (line 13+14+ 15) 48.3248% 15 <mark>\$0</mark> \$61,414,823 100.0000% \$0 \$61,414,823 \$0 \$29,678,590 16 17 Transmission Prepayments \$0 99.7633% (a) \$0 48.3248% \$0 FERC Form 1 Page 111.57c \$3,885,867 \$1,877,837 FERC Form 1 Page 227.8c 18 Transmission Materials and Supplies \$3,885,867 48.3248% 19 Cash Working Capital Operation & Maintenance Expense 20 \$16,615,219 Worksheet 1, Line 20

New England Power Company

 $(3) = (1)^{*}(2)$

(4)

PTF

 $(5) = (3)^{*}(4)$

\$13,601,635

\$30,216,854

\$3,777,107

0.1250

\$0

(2)

Wage/Plant

Administrative & General Expense Transmission Support Expense

22 Subtotal (line 20+21+22) 23

Shading denotes an input

24 25

21

Total (line 23 * line 24)

(a) Worksheet 6 Line 11

(b) Worksheet 6 Line 3

PTF Revenue Requirements Worksheet 5 of 7

New England Power Company

Line No.		(1) Total (g)	Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference for Col (1)
1	Depreciation Expense Transmission Depreciation	\$28,239,845		\$28,239,845	48.3248%	\$13,646,849	FERC Form 1 Page 336.7b
2	General Depreciation	\$349,629	99.7633% (a)	\$28,239,845 \$348,801	48.3248%	\$168,557	FERC Form 1 Page 336.10b
3	Total (line 1+2)	φ040,020	00.700070 (u)	\$28,588,646	40.024070	\$13,815,406	
4	Amortization of Loss on Reacquired Debt	\$293,292	100.0000%	\$293,292	48.3248%	\$141,733	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	\$406,136	100.0000%	\$406,136	48.3248%	\$196,264	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$20,960,123	100.0000%	\$20,960,123	48.3248%	\$10,128,938	FERC Form 1 Page 263.10,17,23,28i - Footnote (e)
	Transmission Operation and Maintenance						
7	Operation and Maintenance	\$62,195,739		\$62,195,739	48.3248%	\$30,055,966	FERC Form 1 Page 321.112b
8	Transmission of Electricity by Others - #565	\$15,883,436		\$15,883,436	48.3248%	\$7,675,639	FERC Form 1 Page 321.96b
9	Load Dispatching - #561 (excl #561.3)	\$11,929,915		\$11,929,915	48.3248%	\$5,765,108	FERC Form 1 Page 321.84-92b less 87b
10 11	**Station Expenses & Rents - #562 & #567 O&M less lines 8, 9 & 10	\$0 \$34,382,388		\$34,382,388	48.3248%	\$0 \$16 615 210	FERC Form 1 Page 321.93b & .98b
11	Oam less lines 8, 9 & 10	\$34,382,388	:	\$34,382,388	48.3248%	\$16,615,219	
	Transmission Administrative and General						
12	Total Administrative and General	\$29,814,013					FERC Form 1 Page 323.197b
13	less Property Insurance (#924)	-\$440,927					FERC Form 1 Page 323.185b
14	less Regulatory Commission Expenses (#928)	\$4,241,188					FERC Form 1 Page 323.189b
15	less General Advertising Expense (#930.1)	\$24,704	00 700000 (-)	¢05 007 500	40.00400/	¢40,500,400	FERC Form 1 Page 323.191b
16	Subtotal [line 12 minus (13 thru 15)]	\$25,989,048	99.7633% (a)	\$25,927,532	48.3248%	\$12,529,428	Line 13
17	PLUS Property Insurance alloc. using Plant Allocator	-\$440,927	99.2163% (c)	-\$437,471	48.3248%	-\$211,407	Attachment 5 Line 6
18 19		\$2,608,204 \$24,704	99.2163% (c)	\$2,587,764 \$24,704	48.3248% 48.3248%	\$1,250,532 \$11,938	Line 15
20	PLUS Specifically identified T rans. Related General Advertising Expense	\$43,753					
20 21	PLUS Specifically identified Trans. Related Regulatory Expense Total A&G [line 16 + (17 thru 20)]		•	\$43,753 \$28,146,282	48.3248%	\$21,144 \$13,601,635	FERC Form 1 Page 350.18c
21	Total A&G [line 16 + (17 thru 20)]	\$28,224,782	•	\$28,146,282		\$13,001,035	
22	Payroll Tax Expense	\$1,966,189	99.7633% (a)	\$1,961,535	48.3248%	\$947,908	FERC Form 1 Page 263.3,4i - Footnote (d)
	(a) Worksheet 6, Line 11		(e)	Property Taxes F	F1, Page 263i		
	(b) Worksheet 6 Line 3		()				
	(c) Worksheet 6 Line 16			Massachusetts	\$17,745,431		
				New Hampshire	\$2,340,263		
	(d) Payroll taxes FERC Form 1, page 263.i			Vermont	\$730,106		
				Maine	\$0		
	Federal Unemployment	\$13,994		Rhode Island	\$144,323		
	FICA	\$1,952,195		Connecticut	\$0		
	Payroll Taxes	\$0			\$20,960,123		
	State Unemployment	\$0 \$1,000,480					
	Total	\$1,966,189					

 Total
 \$1,966,189

 (e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
 (f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

Shading denotes an input

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Shading denotes an input

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1	PTF Transmission Investment	\$664,596,724	Attachment 1, Page 1
2	Total Transmission Investment	\$1,375,270,230	FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	48.3248%	
	Transmission Wages and Salaries Allocation Factor		
4	Direct Transmission Wages and Salaries	\$0	FERC Form 1 Page 354.14b
5	Affiliated Company Transmission Wages and Salaries	\$22,154,668	General Ledger Query
6	Total Transmission Wages and Salaries (Line 4 + Line 5)	\$22,154,668	
7	Total Wages and Salaries	\$0	FERC Form 1 Page 354.28b
8	Administrative and General Wages and Salaries	\$0	FERC Form 1 Page 354.27b
9	Affiliated Company Wages and Salaries less A&G	\$22,207,232	General Ledger Query
10	Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$22,207,232	
11	Percent Allocation (Line 6/Line 10)	99.7633%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,375,270,230	Line 2
13	plus Transmission-Related General Plant (Line 2 of Wkst. 3)	\$6,548,406	Worksheet 3, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,381,818,636	
15	Total Plant in Service	\$1,392,733,917	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2163%	
	Post-2003 PTF Allocation Factor		
17	Total Post-2003 PTF Investment	\$ 206,004,443	Attachment 1 Line 7
18	Total Transmission Investment	\$1,375,270,230	Line 2
19	Percent Allocation (Line 17/Line 18) for Post-2003 to Total Tx	14.9792%	
20	Total Invst in Tx Plant/Total Plant in Serv *		
21	Post-2003 PTF Tx Plant/Total Invst in Tx Plant	14.8618%	Line 19 * Line 16

		Γ	ΤΟΤΑ	۱L
Participant	PTF Supporting Facilities	FERC Form 1	Revenues (a)	Expenses (b)
BECO	345 kV Sherman - Medway 336 line		(-)	(-)
	115 kV Somerville 402 Substation			
	115/345 kV North Cambridge 509 Substation			
	345 kV Golden Hills -Mystic 389 (x&y) line			\$
	West Medway 345 kV breaker	Page 332 Line 6 Column (g)		\$
	115 kV Millbury-Medway 201 line	Page 332 Line 2 Column (g)		\$
	HQ Phase II - AC in MA	Page 332 Line 5 Column (g)		\$
	345 kV "stabilizer" 342 line	Page 332 Line 3 Column (g)		\$
	345 kV Walpole - Medway 325 line			
	345 kV Carver - Walpole 331 line	Page 332 Line 4 Column (g)		\$
	345 kV Jordan Rd - Canal 342 line			
CEC	Second Canal line	Page 332 Line 7 Column (g)		\$
	345 kV Pilgrim-Bridgewater - 355 line	 		\$
	345 kV Myles Standish - Canal 342 line		· — · · · · · · - + ·	
	Bell Rock Road		\$0	<u></u>
СМР	345 kV Buxton-South Gorham 386 line			\$
	115 kV Wyman 164-167 lines	Page 332.1 Line 3		
	115 kV Maine Yankee transmission	·	· — · · — · · — · · · · · · · · · · · ·	
EUA	345 kV Carver - Walpole 331 line		<mark>\$0</mark>	
	345 kV Medway - Bridgewater 344 Line	 - 	\$0	
	Northern Rhode Island transmission	·	<u>N/A</u>	N/
NEP	Chester SVC			\$
	Fitchburg Support			\$
	MWRA Transmission	·	+-	\$
	Comerford 115 kV Substation	Page 330.1 Line 12	\$0	
CEC CMP EUA	Boston-Edison [345 kV Sandy-Tewksbury 337 line	·-;========		
	345 kV Tewksbury-Woburn 338 line]	Page 330 Line 4	\$0	
	Boston-Edison [115 kV Tewksbury - Woburn M139 line			
	115 kV Tewksbury - Woburn N140 line]	Page 330 Line 3	\$0	
	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5	\$0	
	HQ Phase II - AC in MA	Page 300 Line 10	\$0	\$
	Boston Edison -345 kV Golden Hills-Mystic 349 line	Page 300 Line 2	\$0	
	345 kV NH/MA border-Tewksbury 394 line	Page 300.1 Line 8	\$01	\$
	115 kV Read - Washington V148 line	Page 300.1 Line 3	\$0	
	PSNH 345 kV 363, 369 and 394 Seabrook lines	Page 332 Line 11 & Montuap Fin		9
	Fairmont 115 kV Substation			<u> </u>
		Page 222.1 Line F	· — · · — · · — · · · + ·	¢
	345 kV Millstone-Manchester 310 line	Page 332.1 Line 5		\$
	UI Substations	·	- 	
	Black Pond			*
	Total	=	\$0	9

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

New England Power Company 2009 Informational Filing PTF Plant Allocation

Percent Pre/Post

1	2008	Pre-1997 PTF Transmission Plant	\$353,995,853	
2	2008	Post-1996 PTF Transmission Plant	\$503,285,683	
3	2009	Additions/Retirements	\$159,702,008	
4	2009	Pre-1997 PTF Transmission Plant	\$352,386,820	34.65%
5	2009	Post-1996 PTF Transmission Plant	\$664,596,724	65.35%
6	2009	Total PTF Transmission Plant	\$1,016,983,544	100.00%
7	2009	Post-2003 PTF Transmission Plant	\$206,004,443	

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5
- 7 PTF Plant Report: Post 2003 RSP Projects

GROSS PLANT ASSOC. WITH HVDC LEASES 2009

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$0
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	0 0 0%
5	Total Gross Plant leased by NHH (a)	\$0
6	Total Land from Sandy Pond to New Hampshire	\$0
7	HVDC lines occupy 35% of Right of Way	0%
8	Total Land leased by NEH (a)	\$0
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$0

Source:

- 1 FERC Form 1, Page 423.1, Lines 5 + 16
- 2 Total miles used per lease agreement
- 3 Total miles per lease agreement
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2009</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$900,396
2	Less: Specifically identified Transmission-Related	
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission Only 1990 - 1999	\$9,713
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	<u>\$23,561</u>
		\$513,021
3	Total unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.2163%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,339
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$513,021</u>
7	Total Transmission-Related Equity AFUDC	\$897,360
8	Post-96 PTF Allocation Factor	48.3248%
9	Transmission-Related Equity AFUDC	\$433,647

Sources:

- 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 6 Post-96 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2009</u>	MECO <u>2009</u>
1	Total Integrated Facilities Charges	\$0	\$0
2	Total 2009 PTF Property	\$0	\$ 0
3	Total Transmission Plant in 2009	\$0	\$0
4	NECO or MECO PTF Plant Allocator	0.00%	0.00%
5	PTF Related Integrated Facilities Charge	\$0	\$0
6	Total Integrated Facilities	=	\$0

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2009 Regulatory Commission Expense

Line <u>No.</u>		<u>2009</u>	Source
1	Total Regulatory Commission Expense - NEP	\$4,241,188	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	<mark>\$54,748</mark>	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$249,867	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$0	FERC Form1 Page 350.8d
5	Less: Utility Expenses	\$1,328,369	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,608,204	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property New England Power Company

	<u>2009</u>
Revenues	\$887,595
Plant Allocation Factor	100.00%
Transmission Allocated	\$887,595
PTF Allocation	48.3248%
Total PTF Revenue	\$428,929

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2009</u>
Revenues	\$923,870
Post-96 PTF Percent	65.3498%
Total Post-96 PTF Revenue	\$603,747

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Shading denotes an input

Submitted on:	<u> </u>			<u> </u>
Revenue Requirements for (year):		Calenda	r Year 2009	
Rates Effective for the Period: Through:	June 2010 May 2011			
Customer:	New England Pe	ower Company	y	l
Customer's NABs Number:	<u> </u>			l
Name of Participant responsible for customer's billing:				l
DUNs number of Participant responsible for customer's billing:	<u> </u>			l
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$90,404,997	(a)	\$110,240,121	_(f)
Total of Attachment F - Section J - Support Revenue	\$7,130,058	(b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$963,053	(c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$547,552)	(d)	(\$1,032,676)	()
Sub Total - Sum (A through I) - J + K + (L through O)	\$83,690,440	(e)=(a)-(b)+(c)+(d)	\$109,207,445	0
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A	_	\$25,171,563	_(k)
Annual True-up (per Attachment C to Attacment F Im[plementation	on Rule) N/A	()	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$83,690,440	(n)=(e) + (l)	\$134,379,008	(o)=(j)+(k)+(m)
Annual Revenue Requirement Total = Sum of Pre-97 Revenue R	Requirements		* 242.222.442	

and Post-96 Revenue Requirements Subtotals for rate calculations under the Tariff:

\$218,069,448 (p) = (n) + (o)

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2009

PRE-1997

		F	'KE-1997		
	Sha	ading denotes an input			
			Attachment F		
	١.	INVESTMENT BASE	Reference	NEP	Reference
Line No.			Section:		
1		Transmission Plant	(A)(1)(a)	\$339,300,092	Worksheet 3, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$1,677,905	Worksheet 3, line 3 column 5
3		Plant Held For Future Use	(A)(1)(c)	\$263,347	Worksheet 3, line 5 column 5
4		Total Plant (Lines 1+2+3)	()()(-)	\$341,241,344	
				+ - , , , -	
5		Accumulated Depreciation	(A)(1)(d)	\$78,995,083	Worksheet 3, line 8 column 5
6		Accumulated Deferred Income Taxes	(A)(1)(e)	\$71,067,110	Worksheet 3, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(f)	\$253,833	Worksheet 3, line 12 column 5
8		Other Regulatory Assets	(A)(1)(g)	\$15,736,382	Worksheet 3, line 16 column 5
9		Net Investment (Line 4-5-6+7+8)	(/(/(3/	\$207,169,366	· · · · · · · · · · · · · · · · · · ·
				* - , ,	
10		Prepayments	(A)(1)(h)	\$0	Worksheet 3, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$995,680	Worksheet 3, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$2,002,723	Worksheet 3, line 25 column 5
13		Total Investment Base (Line 9+10+11+12)		\$210,167,769	
	II.	REVENUE REQUIREMENTS			
14		Investment Return and Income Taxes	(A)	\$26,914,505	Worksheet 2
15		Depreciation Expense	(A) (B)	\$7,325,298	Worksheet 4, line 3, column 5
16		Amortization of Loss on Reacquired Debt	(C)	\$75,151	Worksheet 4, line 4, column 5
17		Investment Tax Credit	(D)	(\$104,065)	Worksheet 4, line 5, column 5
18		Property Tax Expense	(E)	\$5,370,633	Worksheet 4, line 6, column 5 Worksheet 4, line 6, column 5
19		Payroll Tax Expense	(E) (F)	\$502,606	Worksheet 4, line 22, column 5
20		Operation & Maintenance Expense	(G)	\$8,809,833	Worksheet 4, line 22, column 5 Worksheet 4, line 11, column 5
20		Administrative & General Expense	(U) (H)	\$7,211,949	Worksheet 4, line 11, column 5 Worksheet 4, line 21, column 5
22		Transmission Related Integrated Facilities Charge	(1)	\$34,299,087	Attachment 4, line 6
22		Transmission Support Revenue	(I) (J)	(\$7,130,058)	Worksheet 6
23		Transmission Support Expense	(5) (K)	\$963,053	Worksheet 6
24 25		Transmission Related Expense from Generators	(K) (L)	\$903,055 \$0	Worksheet 7
25 26		Transmission Related Taxes and Fees Charge	(∟) (M)	\$0 \$0	WUIKSHEEL /
20		Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$320,123)	Attachment 7
27		Transmission Rents Received from Electric Property		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Attachment 6
20		наполновно кело кесетей пол стести ворену	(O)	(\$227,429)	

\$83,690,440

29 Total Revenue Requirements (Line 14 thru 28)

New England Power Company Annual Revenue Requirements For Costs in 2009

Shading denotes an input

			LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY TOTAL INVESTMENT RETURN	CAPITALIZATION 12/31/2009 \$410,350,000 \$1,111,700 \$745,076,320 \$1,156,538,020		CAPITALIZATION RATIOS 35.48% 0.10% 64.42% 100.00%	COST OF CAPITAL 1.58% 6.02% 11.64%	COST OF CAPITAL 0.56% 0.01% 7.50% 8.07%	EQUITY PORTION 0.01% 7.50% 7.51%
Cost of Capital Rate=									
(a) Weighted Cost of Capital	=	0.0807							
(b) Federal Income Tax	=	(R.O.E. +(PTF Inv. Eq. AFUDC (Tax Credit + of Deprec. Exp.)	/ PTF Inv. Base)	x -	Federal Income Tax F Federal Income Tax F			
	=	(0.0751 +	((\$104,065) + \$229,931)	/ \$210,167,769)	x	0.35 0.35)		
	=	0.0407609	PTF Inv. Eq. AFUDC				,		
(c) State Income Tax	=	(<u>R.O.E. +</u> ((Tax Credit + of Deprec. Exp.)	/ PTF Inv. Base)	+	Federal Income Ta State Income Tax Ra		State Income Tax Ra	ate
	=	(<u>0.0751 +</u> (1	((\$104,065) + \$229,931)	/ \$210,167,769)	+	0.0407609 0.053641)*	0.053	641
	=	0.0066011							
(a)+(b)+(c) Cost of Capital Rate	=	0.1280620							
		(PTF)							
INVESTMENT BASE		\$210,167,769	From Worksheet 1						
x Cost of Capital Rate		0.1280620							
= Investment Return and Income Taxes		\$26,914,505	To Worksheet 1						
Source: Attachment 2									

New England Power Company

			New England Pow	er Company			
	Shading denotes an input						
			(2)	(0) (1)*(0)	(4)	(5) (0)*(4)	
Line		(1)	Wage/Plant	$(3) = (1)^*(2)$	PTF	(5) = (3)*(4) PTF	
		(1) Total	Allocation	Transmission	Allocation		Source Deference for Col (1)
No.	-	lotal	Factors	Allocated	Factor (b)	Allocated	Source Reference for Col (1)
1	Transmission Plant			\$0		\$352,386,820	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases					(\$13,086,728)	Attachment 1, Page 2
3	General Plant	\$6,563,943	99.7633% (a)	\$6,548,406	25.6231%	\$1,677,905	FERC Form 1 Page 207.99g
4	Total (line 1+2+ 3)			\$6,548,406		\$340,977,997	
5	Transmission Plant Held for Future Use	\$1,027,771		\$1,027,771	25.6231%	\$263,347	FERC Form 1 Page 214.2,4,9
	Transmission Accumulated Depreciation						
6	Transmission Accum. Depreciation	\$303,640,607		\$303,640,607	25.6231%	\$77,802,136	FERC Form 1 Page 219.25
7	General Plant Accum.Depreciation	\$4,666,793	99.7633% (a)	\$4,655,747	25.6231%	\$1,192,947	FERC Form 1 Page 219.28
8	Total (line 6+ 7)			\$308,296,354		\$78,995,083	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	-\$430,463,140	99.2163%	(\$427,089,600)	25.6231%	(\$109,433,595)	FERC Form 1 Page 113.62-64
10	Accumulated Deferred Taxes (190)	\$150,916,705	99.2163%	\$149,733,971	25.6231%	\$38,366,485	FERC Form 1 Page 111.82
11	Total (line 9+ 10)			(\$277,355,629)		(\$71,067,110)	C C
12	Transmission Loss on Reacquired Debt	\$990,643	100.0000%	\$990,643	25.6231%	\$253,833	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$0	99.7633% (a)	\$0	25.6231%	\$0	
14	FAS 109 (Asset Account 182.3)	\$61,414,823	100.0000%	\$61,414,823	25.6231%	\$15,736,382	FERC Form 1 Page 232.7f
15	FAS 109 (Liability Account 254)	\$0	100.0000%	\$0	25.6231%	\$0	0
16	Total (line 13+14+ 15)	\$61,414,823		\$61,414,823		\$15,736,382	
17	Transmission Prepayments	\$0	99.7633% (a)	\$0	25.6231%	\$0	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$3,885,867		\$3,885,867	25.6231%	\$995,680	FERC Form 1 Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$8,809,833	Worksheet 1, Line 20
21	Administrative & General Expense					\$7,211,949	Worksheet 1, Line 21
22	Transmission Support Expense					\$0	Worksheet 6
23	Subtotal (line 20+21+22)					\$16,021,782	
24						0.1250	x 45 / 360
25	Total (line 23 * line 24)					\$2,002,723	

(a) Worksheet 5 Line 11 (b) Worksheet 5 Line 3

New England Power Company

	endang denetes an input		(2)		(4)		
Line		(1)	Wage/Plant Allocation	$(3) = (1)^*(2)$ Transmission	PTF Allocation	(5) = (3)*(4) PTF	
No.		Total	Factors	Allocated	Factor (b)	Allocated	Source Reference for Col (1)
	Depreciation Expense						
1	Transmission Depreciation	\$28,239,845		\$28,239,845	25.6231%	\$7,235,924	FERC Form 1 Page 336.7b
2	General Depreciation	\$349,629	99.7633% (a)		25.6231%	\$89,374	FERC Form 1 Page 336.10b
3				\$28,588,646		\$7,325,298	
4	Amortization of Loss on Reacquired Debt	\$293,292	100.0000%	\$293,292	25.6231%	\$75,151	FERC Form 1 Page 117.64c
-	Amonization of 2033 of Reacquired Debi	ψ200,202	100.000070	ψ200,202	20.020170	<u> </u>	TEROTOINITT age TTAG
5	Amortization of Investment Tax Credits	\$406,136	100.0000%	\$406,136	25.6231%	\$104,065	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$20,960,123	100.0000%	\$20,960,123	25.6231%	\$5,370,633	FERC Form 1 Page 263.10,17,23,28i - Footnote (e)
		• • • • • • • •		,		<u> </u>	
7	Transmission Operation and Maintenance Operation and Maintenance	\$00 405 700		\$62.195.739	25.6231%	\$15.936.476	FERC Form 1 Page 321.112b
7 8	Transmission of Electricity by Others - #565	\$62,195,739 \$15,883,436		\$02,195,739 \$15,883,436	25.6231%	\$4,069,829	FERC Form 1 Page 321.1120
9	Load Dispatching - #561 (excl #561.3)	\$11,929,915		\$11,929,915	25.6231%	\$3,056,814	FERC Form 1 Page 321.84-92b less 87b
10	**Station Expenses & Rents - #562 / #567	\$0		• ,,		\$0	FERC Form 1 Page 321.93b & .98b
11	O&M less lines 8, 9 & 10	\$34,382,388		\$34,382,388	25.6231%	\$8,809,833	
	Transmission Administrative and General						
12	Total Administrative and General	\$29,814,013					FERC Form 1 Page 323.197b
13	less Property Insurance (#924)	-\$440,927					FERC Form 1 Page 323.185b
14 15	less Regulatory Commission Expenses (#928)	\$4,241,188 \$24,704					FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b
15	less General Advertising Expense (#930.1) Subtotal [line 12 minus (13 thru 15)]	\$25,989,048	99.7633% (a)	\$25,927,532	25.6231%	\$6,643,437	FERC FOILT Fage 323.1910
17	PLUS Property Insurance alloc. using Plant Allocation	-\$440,927	99.2163% (a)	-\$437,471	25.6231%	-\$112,094	Line 13
18	PLUS Regulatory Comm. Exp.	\$2,608,204	99.2163% (c)	\$2,587,764	25.6231%	\$663,065	Attachment 5 Line 6
19	PLUS Specifically identified T rans. Related General Advertising Expense	\$24,704		\$24,704	25.6231%	\$6,330	Line 15
20	PLUS Specifically identified Trans. Related Regulatory Expense	\$43,753		\$43,753	25.6231%	\$11,211	FERC Form 1 Page 350.18c
21	Total A&G [line 16 + (17 thru 20)]	\$28,224,782		\$28,146,282		\$7,211,949	
22	Payroll Tax Expense	\$1,966,189	99.7633% (a)	\$1,961,535	25.6231%	\$502,606	FERC Form 1 Page 263.3,4i - Footnote (d)
	(a) Worksheet 5 Line 11		(e)	Property Taxes F	F1, Page 263i		
	(b) Worksheet 5 Line 3						
	(c) Worksheet 5 Line 16			Massachusetts	\$17,745,431		
	(d) Devrell textee EEDC Form 1, page 262 i			New Hampshire Vermont	\$2,340,263		
	(d) Payroll taxes FERC Form 1, page 263.i			Maine	\$730,106 \$0		
	Federal Unemployment	\$13,994		Rhode Island	\$144,323		
	FICA	\$1,952,195		Connecticut	\$0		
	Payroll Taxes	\$0			\$20,960,123		
	State Unemployment	\$0					
	Total	\$1,966,189					

 Total
 \$1,966,189

 (e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
 (f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

Shading denotes an input

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Shading denotes an input

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1 2	PTF Transmission Investment	\$352,386,820 \$1,375,270,230	Attachment 1, Page 1 FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	25.6231%	
	Transmission Wages and Salaries Allocation Factor		
4 5 6	Direct Transmission Wages and Salaries Affiliated Company Transmission Wages and Salaries Total Transmission Wages and Salaries (Line 4 + Line 5)	\$0 <u>\$22,154,668</u> \$22,154,668	FERC Form 1 Page 354.14b General Ledger Query
7 8 9 10	Total Wages and Salaries Administrative and General Wages and Salaries Affiliated Company Wages and Salaries less A&G Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$0 \$0 <u>\$22,207,232</u> \$22,207,232	FERC Form 1 Page 354.28b FERC Form 1 Page 354.27b General Ledger Query
11	Percent Allocation (Line 6/Line 10)	99.7633%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,375,270,230	Line 2
13	plus Transmission-Related General Plant	\$6,548,406	Worksheet 3, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,381,818,636	
15	Total Plant in Service	\$1,392,733,917	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2163%	

TOTAL

			TOTAL	
Participant	PTF Supporting Facilities	FERC Form 1	Revenues	Expenses
			(a)	(b)
BECO	345 kV Sherman - Medway 336 line			
	115 kV Somerville 402 Substation	 		
	115/345 kV North Cambridge 509 Substation	14092582	· · ·	
	345 kV Golden Hills -Mystic 389 (x&y) line	Contract Suspended Oct. 1997	· ·	\$0
	West Medway 345 kV breaker	Pg 332 Line 6 Col (g)		\$0
	115 kV Millbury-Medway 201 line	Pg 332 Line 2 Col (g)		\$9,334
	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$115,229
	345 kV "stabilizer" 342 line	Pg 332 Line 3 Col (g)		\$69,187
	345 kV Walpole - Medway 325 line			
	345 kV Carver - Walpole 331 line	Pg 332 Lines 12 & 13 Col (g)	j	\$19,462
	345 kV Jordan Rd - Canal 342 line			
	· · · · · · · · · · · · · · · · · · ·			
CEC	Second Canal line	Pg 332 Line 4 Col (g)		\$47,040
	345 kV Pilgrim-Bridgewater - 355 line	<u>~</u>		\$0
	345 kV Myles Standish - Canal 342 line	-++-		\$0
	Bell Rock Road	Page 330.5 Line 12	-\$4,408	
CMP	345 kV Buxton-South Gorham 386 line	Page 332.1, Line 4	Ţ .,	\$0
	115 kV Wyman 164-167 lines	Pg 332.1 Line 3 Col (g)	i	\$0
	115 kV Maine Yankee transmission			
NEP	345 kV Carver - Walpole 331 line		\$0	
	345 kV Medway - Bridgewater 344 Line	Pg 330.5, Line 11	\$166,069	
	Northern Rhode Island transmission	Reflect in Integr. Fac. Chg. Wksh1	N/A	N/A
NEP	Chester SVC	Tx Billing		\$692,801
	Fitchburg Support	See Attachment 9	ii	\$0
	WWRA Transmission (MDC)	Contract		\$10,000
VT Elec Co.	Comerford 115 kV Substation		\$41,705	φ10,000
	Boston-Edison [345 kV Sandy-Tewksbury 337 line	Page 330.1 Line 12	φ+1,700	
			\$854,688	
	345 kV Tewksbury-Woburn 338 line]	Page 330 Line 4		
	Boston-Edison [115 kV Tewksbury - Woburn M139 line		\$110,499	
	115 kV Tewksbury - Woburn N140 line]	Page 330 Line 3	\$13,319	
	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5	\$5,099,585	
	HQ Phase II - AC in MA	Page 330 Line 11		
	Boston Edison -345 kV Golden Hills-Mystic 349 line	Page 330 Line 2	\$425,327 \$423,274	
	345 kV NH/MA border-Tewksbury 394 line (Seabrook)	Page 330.1 Line 8	\$423,274	
		!+-		
N II 1				.
NU	PSNH 345 kV 363, 369 and 394 Seabrook lines	Page 332 Line 11		<mark>\$0</mark>
	Fairmont 115 kV Substation		<mark> </mark>	
	345 kV Millstone-Manchester 310 line	Page 332.1 Line 5		\$0
	UI Substations	I I I	!	
	Black Pond			
	То	tal =	\$7,130,058	\$963,053

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

* Adjusted FERC Form Pg 330.1 Line 8 to reflect FERC Order #ER09-1764-000 amending the Seabrook Transmission Support Agreement.

FF1 Adjustment	\$ 2,398,550
Revised @ 15% per FERC Order	\$ 423,274
FF1 Pg 330.1 Line 8	\$ 2,821,824

New England Power Company 2009 Informational Filing PTF Plant Allocation

			_	Percent Pre/Post
1	2008	Pre-1997 PTF Transmission Plant	\$353,995,853	
2	2008	Post-1996 PTF Transmission Plant	\$503,285,683	
3	2009	Additions/Retirements	\$159,702,008	
4	2009	Pre-1997 PTF Transmission Plant	\$352,386,820	34.65%
5	2009	Post-1996 PTF Transmission Plant	\$664,596,724	65.35%
6	2009	Total PTF Transmission Plant	\$1,016,983,544	100.00%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5

GROSS PLANT ASSOC. WITH HVDC LEASES 2009

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	<mark>\$14,269,187</mark>
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	224 253 89%
5	Total Gross Plant leased by NHH (a)	\$12,699,576
6	Total Land from Sandy Pond to New Hampshire	\$1,106,146
7	HVDC lines occupy 35% of Right of Way	35%
8	Total Land leased by NEH (a)	\$387,151
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$13,086,728
Sourc	<u>e:</u>	
1	FERC Form 1, Page 422.1-423.1, Lines 5 + 16	
2	Total miles used per lease agreement	
3 4	FERC Form 1, Page 422.1 Lines 5 + 16 col (f) Line 2 / Line 3	
+ 5	Line 2 / Line 3	

- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2009</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$900,396
2	Less: Specifically Identified Transmission-Related	
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission Only 1990 - 1999	\$9,713
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	<u>\$23,561</u>
		\$513,021
3	Total Unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.2163%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,339
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$513,021</u>
7	Total Transmission-Related Equity AFUDC	\$897,360
8	Pre-97 PTF Allocation Factor	25.6231%
9	Transmission-Related Equity AFUDC	\$229,931

Sources:

- 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 5 Pre-97 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		REVISED PTF	
		Narragansett 2009	MECO <u>2009</u>
1	Total Integrated Facilities Charges	\$42,294,362	\$7,830,887
2 3 4	Total 2009 PTF Property Total Transmission Plant in 2009 NECO or MECO PTF Plant Allocator	\$173,100,030 \$239,329,792 72.33%	\$21,108,649 \$44,568,938 47.36%
5	PTF Related Integrated Facilities Charge	\$30,590,238	\$3,708,849
6	Total Integrated Facilities	=	\$34,299,087
<u>Source</u>	<u>e:</u>		
1	FF1 Page 330.4 Lines 13 & 14 Col (n)		

- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2009 Regulatory Commission Expense

Line <u>No.</u>		<u>2009</u>	Source
1	Total Regulatory Commission Expense - NEP	\$4,241,188	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$54,748	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$249,867	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$0	FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$1,328,369</mark>	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,608,204	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property New England Power Company

	<u>2009</u>
Revenues	\$887,595
Plant Allocation Factor	100.00%
Transmission Allocated	\$887,595
PTF Allocation	25.6231%
Total PTF Revenue	\$227,429

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details
Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2009</u>
Revenues	\$923,870
Pre-97 PTF Percent	34.6502%
Total Pre-97 PTF Revenue	\$ 320,123

Source: Short Term Through and Out Revenues from ISO New England

Sheet: Input Panel

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Submitted on:	<u> </u>			
Revenue Requirements for (year):		Calend	ar Year 2010	
Rates Effective for the Period: Through:			ne 2011 ay 2012	_
Customer:	New England Po	ower Compa	ny	
Customer's NABs Number:	<u> </u>			
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:	<u> </u>			L
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$88,866,750	(a)	\$121,119,799	(f)
Total of Attachment F - Section J - Support Revenue	\$6,543,377	(b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$881,501	(c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$1,159,454)	(d)	(\$2,495,328)	(i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$82,045,420	(e)=(a)-(b)+(c)+(d)	\$118,624,471	0
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A		\$19,133,246	(k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	N/A	(1)	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$82,045,420	(n)=(e)+(l)	\$137,757,717	(0)=(j)+(k)+(
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest)			\$219,803,137	(p) = (n) + (c

Worksheet 1 of 8

Attachment 7

Attachment 6

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2010

POST-1996

			001-1330		
	Sha	ading denotes an input			
			Attachment F		
	١.	INVESTMENT BASE	Reference	NEP	Reference
Line No.			Section:		
1	•	Transmission Plant	(A)(1)(a)	\$755,657,102	Worksheet 5, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$3,501,114	Worksheet 5, line 3 column 5
3		Plant Held For Future Use	(A)(1)(c)	\$523,217	Worksheet 5, line 5 column 5
4		Total Plant (Lines 1+2+3)		\$759,681,433	
5		Accumulated Depreciation	(A)(1)(d)	(\$168,493,923)	Worksheet 5, line 8 column 5
6		Accumulated Deferred Income Taxes	(A)(1)(e)	(\$160,012,647)	Worksheet 5, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(f)	\$355,007	Worksheet 5, line 12 column 5
8		Other Regulatory Assets	(A)(1)(g)	\$22,586,072	Worksheet 5, line 16 column 5
9		Net Investment (Line 4+5+6+7+8)		\$454,115,942	
10		Prepayments	(A)(1)(h)	\$0	Worksheet 5, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$2,273,926	Worksheet 5, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$4,024,393	Worksheet 5, line 25 column 5
13		Total Investment Base (Line 9+10+11+12)		\$460,414,261	
	١١.	REVENUE REQUIREMENTS			
14		Investment Return and Income Taxes	(A)	\$59,812,781	Worksheet 3
15		Depreciation Expense	(B)	\$16,593,368	Worksheet 6, line 3, column 5
16		Amortization of Loss on Reacquired Debt	(C)	\$149,309	Worksheet 6, line 4, column 5
17		Investment Tax Credit	(D)	(\$201,661)	Worksheet 6, line 5, column 5
18		Property Tax Expense	(E)	\$11,520,944	Worksheet 6, line 6, column 5
19		Payroll Tax Expense	(F)	\$1,049,911	Worksheet 6, line 22, column 5
20		Operation & Maintenance Expense	(G)	\$16,817,224	Worksheet 6, line 11, column 5
21		Administrative & General Expense	(H)	\$15,377,923	Worksheet 6, line 21, column 5
22		Transmission Related Integrated Facilities Charge	(I)	\$0	Attachment 4, line 6
23		Transmission Support Revenue	(Ĵ)	\$0	Worksheet 8
24		Transmission Support Expense	(K)	\$0	Worksheet 8
05		Transmission Delated Fundades from Conceptors		¢0	

(L)

(M)

(N)

(O)

\$0

\$0

(\$1,922,989)

\$118,624,471

(\$572,339)

- Transmission Support Revenue Transmission Support Expense 24
- Transmission Related Expense from Generators Transmission Related Taxes and Fees Charge 25
- 26
- 27 Revenue for ST Trans. Service Under NEPOOL Tariff
- 28 Transmission Rents Received from Electric Property

Total Revenue Requirements (Line 14 thru 28) 29

New England Power Company Post 1996 Regional Network Service Revenue Requirement For Test Year Ended 12/31/2010

Line No.	Description	Attachment F Reference	Forecasted Amount \$	Reference
1	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA)		\$ 11,629,831	Line 6
2	Forecasted Revenue Requirements for Forecasted Transmission CWIP		7,503,415	Line 9
3	Forecasted Transmission Revenue Requirements		\$ 19,133,246	Line 1 + Line 2
4 5	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA) Carrying Charge Factor (CCF)	Appendix C iv Appendix C vi	\$ 73,388,000 15.84705%	Project Detail Line 20
6	Forecasted Revenue Requirements for FTPA		\$ 11,629,831	Line 4 * Line 5
7	Forecasted New England Power Company (NEP) NEEWS CWIP (FNCWIP)	Appendix C xiii	\$ 53,588,131	Filing Workpaper
8	NEEWS NEP Cost of Capital Rate (NCOC)	Appendix C xiv	14.00201%	Workpaper 4
9	Forecasted Revenue Requirements for FNCWIP		\$ 7,503,415	Line 7 * Line 8
	Derivation of Carrying Charge (CCF)			
	Derivation of Carrying Charge (CCr.)			
10	Investment Return and Income Taxes	(A)	\$58,442,316	Summary, Line 14
11	Depreciation Expense	(B)	16,593,368	Summary, Line 15
12	Amortization of Loss on Reacquired Debt	(C)	149,309	Summary, Line 16
13	Investment Tax Credit	(D)	(201,661)	Summary, Line 17
14	Property Tax Expense	(E)	11,520,944	Summary, Line 18
15	Payroll Tax Expense	(F)	1,049,911	Summary, Line 19
16	Operation & Maintenance Expense	(G)	16,817,224	Summary, Line 20
17	Administrative & General Expense	(H)	15,377,923	Summary, Line 21
18	Total Expenses (Lines 10 thru 17)		\$119,749,334	
19	PTF Transmission Plant	(A)(1)(a)	\$755,657,102	Summary, Line 1
20	Carrying Charge Factor (FTPA)		15.84705%	Line 18 / Line 19

New England Power Company Annual Revenue Requirements For Costs in 2010

				PREFERR	ERM DEBT ED STOCK DN EQUITY T RETURN	CAPITALIZATION 12/31/2010 \$410,350,000 \$1,111,700 \$730,712,039 \$1,142,173,739	CAPITALIZATION RATIOS 35.93% 0.10% 63.98% 100.01%	COST OF CAPITAL 1.25% 6.02% 11.64%	COST OF CAPITAL 0.45% 0.01% 7.45% 7.91%	EQUITY PORTION 0.01% 7.45% 7.46%
Cost of Capital Rate=										
(a) Weighted Cost of Capital	=	0.0791								
(b) Federal Income Tax	= ((PTF Inv. (Tax Credit +	Eq. AFUDC of Deprec. Exp	.)/	PTF Inv. Base)	x Federal Income Ta - Federal Income Ta	x Rate) x Rate)		
	= (0.0746 +	((\$201,661) +		\$497,607) /	\$460,414,261)	x 0.35 - 0.35)		
	=	0.0405153					0.00	,		
			PTF Inv.	Eq. AFUDC						
(c) State Income Tax	= ((R.O.E. +	(Tax Credit +	of Deprec. Exp	.)/	PTF Inv. Base)	+ Federal Income - State Income Tax		State Income Tax R	ate
	= (0.0746 +	((\$201,661) +		\$497,607)/	\$460,414,261)	+ 0.0405153 - 0.059466)*	0.0594	466
	=	0.0073189						,		
(a)+(b)+(c) Cost of Capital Rate	=	0.1269342								
		(PTF)								
INVESTMENT BASE		\$460,414,261	From Worksheet 1							
x Cost of Capital Rate		0.1269342								
= Investment Return and Income Taxes		\$58,442,316	To Worksheet 1							
Post 2003 PTF Investment Base w/ Inc Plant In-Service Accumulated Depreciation Accumulate Deferred Income Taxes Total Post-2003 Investment	remental 100 bps:	\$ 213,120,061 (46,801,214) (44,793,319) \$ 121,525,527	From Attachment 1 From Worksheets 5 & 7 From Worksheets 5 & 7 Calculated							
Incremental ROE: Federal Income Taxes:	1.00%	6 0.00640 0.00345	Calculated Per Attachment F							
State Income Taxes: Cost of Capital Rate		0.00062	Per Attachment F							
Incremental Return and Taxes on Post-20	03 PTF Investment	\$ 1,271,815								
NEEWS CWIP w/ Incremental 125 bps: New England Power NEEWS In-Servici Accumulated Depreciation Accumulate Deferred Income Taxes Total New England Power NEEWS Invi	B	\$ 14,281,610 (3,431,595) (3,308,970) \$ 7,541,046	PowerPlant PTF 4 & 5 rd From Worksheets 3 & 5 From Worksheets 3 & 5 Calculated							
Incremental ROE: Federal Income Taxes: State Income Taxes:	1.25%		Calculated Per Attachment F Per Attachment F							
Cost of Capital Rate Incremental Return and Taxes on NEEW	S PTF Investment	0.01308								
NEEWS Allocation Factor Total Transmission Investment Total NEEWS In-Service - NEP For Accumulated Depreciation		\$1,484,361,243 \$15,743,593 1.0606%	Worksheet 7 Line 2 PowerPlant Report							
NEEWS Allocation Factor Plant Allocation Factor For Accumulated Deferred Inco	ime Taxes	1.0606% 0.992566 1.0527%	Worksheet 7 Line 16							

PTF Revenue Requirements Worksheet 4 of 8

New England Power Company Annual Revenue Requirements For Costs in 2010

								CAPITALIZATION 12/31/2010		CAPITALIZATION RATIOS	COST OF CAPITAL	COST OF CAPITAL	EQUITY PORTION
							LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY	\$410,350,000 \$1,111,700 \$730,712,039		35.93% 0.10% 63.98%	1.25% 6.02% 12.89%	0.45% 0.01% 8.25%	0.01% 8.25%
							TOTAL INVESTMENT RETURN	\$1,142,173,739		100.01%		8.71%	8.26%
Cost of Capital Rate=													
(a) Weighted Cost of Capital	=	_	0.08	371									
(b) Federal Income Tax	=	(R.O.E. +	(PTF Inv. (Tax Credit	+	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x	Federal Income Tax F Federal Income Tax F			
	=	(0.0826		(\$201,661)		\$497,607)/	\$460,414,261)	×	0.35	(ale)		
	-	`(1	+((\$201,001)	Ŧ	\$497,007) /	\$400,414,201)	-	0.35)		
	=	_	0.04482	230									
					PTF Inv.		Eq. AFUDC						
(c) State Income Tax	=	(R.O.E. +	((Tax Credit	+	of Deprec. Exp.) /	PTF Inv. Base)	+	Federal Income Ta State Income Tax R		State Income Tax F	Rate
		``	-								,		
	=	(0.0826	+((\$201,661)	+	\$497,607) /	\$460,414,261)	+	0.0448230 0.059466)*	0.0594	166
		(1							0.035400)		
	=	_	0.00809	971									
(a)+(b)+(c) Cost of Capital Rate	e =	_	0.14002	201									

PTF Revenue Requirements Worksheet 5 of 8

New England Power Company

			New England Power Company	Y		
	Shading denotes an input					
Line No.		(1) Total	(2) Wage/Plant (3) = (1)*(2 Allocation Transmissi Factors Allocated	on Allocation	(5) = (3)*(4) PTF Allocated	Source Reference for Col (1)
1	Transmission Plant				\$755,657,102	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases				\$0	Attachment 2
3	General Plant	\$6,894,870	99.7459% (a) \$6,877,3	50.9079% (b)	\$3,501,114	FERC Form 1 page 207.99
4	Total (line 1+2+ 3)		\$6,877,3	350	\$759,158,216	
5	Transmission Plant Held for Future Use	\$1,027,771	\$1,027,7	771 50.9079% (b)_	\$523,217	FERC Form 1 page 214.2,4,9
	Transmission Accumulated Depreciation					
6	Transmission Accumulated Depreciation	(\$325,966,071)	(\$325,966,0	071) 50.9079% (b)	(\$165,942,481)	FERC Form 1 page 219.25
7	General Plant Accumulated Depreciation	(\$5,024,647)	99.7459% (a) (\$5,011,8		(\$2,551,442)	FERC Form 1 Page 219.28
8	Total (line 6+ 7)		(\$330,977,9	950)	(\$168,493,923)	
	Transmission Accumulated Deferred Taxes					
9	Accumulated Deferred Taxes (281-283)	(\$374,482,727)	99.2566% (c) (\$371,698,8		(\$189,224,065)	FERC Form 1 page 113.62-64
10	Accumulated Deferred Taxes (190)	\$57,810,678	99.2566% (c) \$57,380,9		\$29,211,418	FERC Form 1 page 111.82
11	Total (line 9+ 10)		(\$314,317,9	909)	(\$160,012,647)	
12	Transmission Loss on Reacquired Debt	\$697,351	100.0000% \$697,3	50.9079% (b)	\$355,007	FERC Form 1 Page 111.81c
	Other Regulatory Assets					
13	FAS 106	\$0	99.7459% (a)	\$0 50.9079% (b)	\$0	
14	FAS 109 (Asset Account 182.3)	\$44,366,536	100.0000% \$44,366,		\$22,586,072	FERC Form 1 Page 232.7f
15	FAS 109 (Liability Account 254)	\$0	100.0000%	<u>\$0</u> 50.9079% (b)	\$0	FERC Form 1 Page 278
16	Total (line 13+14+ 15)	\$44,366,536	\$44,366,	<u> </u>	\$22,586,072	
17	Transmission Prepayments	\$0	99.7459% (a)	\$0 50.9079% (b)	\$0	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$4,466,745	\$4,466,7	50.9079% (b)	\$2,273,926	FERC Form 1 Page 227.8c
19	Cash Working Capital					
20	Operation & Maintenance Expense				\$16,817,224	Worksheet 1, Line 20
21	Administrative & General Expense				\$15,377,923	Worksheet 1, Line 21
22	Transmission Support Expense			-	\$0	Worksheet 8
23	Subtotal (line 20+21+22)				\$32,195,147	
24				-	0.1250	x 45 / 360
25	Total (line 23 * line 24)			=	\$4,024,393	

(a) Worksheet 7 Line 11 (b) Worksheet 7 Line 3 (c) Worksheet 7 Line 16

PTF Revenue Requirements Worksheet 6 of 8

Shading denotes an input

New England Power Company

Line		(1)	Wage/Plant (3) = (1)*(2 Allocation Transmission	n Allocation	(5) = (3)*(4) PTF	
No.		Total (g)	Factors Allocated	Factor (b)	Allocated	Source Reference for Col (1)
1 2 3	Depreciation Expense Transmission Depreciation General Depreciation Total (line 1+2)	\$32,237,934 \$357,854	\$32,237,5 99.7459% (a) <u>\$356,5</u> \$32,594,8	45 50.9079%	\$16,411,655 <u>\$181,713</u> \$16,593,368	FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
4	Amortization of Loss on Reacquired Debt	\$293,292	\$293,2	92 50.9079%	\$149,309	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$396,129)	(\$396,1	<mark>29)</mark> 50.9079%	(\$201,661)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$22,630,955	\$22,630,9	55 50.9079%	\$11,520,944	FERC Form 1 Page 263.10,17,23,28i - Footnote (e)
7 8 9 10 11	<u>Transmission Operation and Maintenance</u> Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) ** Station Expenses & Rents - #562 & #567 O&M less lines 8, 9 & 10	\$60,951,521 \$16,215,370 \$11,701,546 \$0 \$33,034,605	\$60,951,5 \$16,215,3 \$11,701,5 \$33,034,6	70 50.9079% 46 50.9079%	\$31,029,139 \$8,254,904 \$5,957,011 \$0 \$16,817,224	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15 16	Transmission Administrative and General Total Administrative and General Less: Reputy Insurance (924) Less: Regulatory Commission Expenses (1928) Less: General Adverting Espenses (1930.1) Subtotal [line 12 minus (13 thru 15)]	\$32,504,326 (\$179,245) \$4,562,078 \$0 \$28,121,493	99.7459% (a) \$28,050,0		\$14,279,684	FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b
17 18 19 20 21	Plus: Properly Insurance Allocated using Plant Allocator Plus: Regulary Commission Expense Plus: Specifically identified Trans. Related General Advertising Expense Plus: Specifically identified Trans. Related Regulatory Expense Total A & G [line 16 + (11 Thru 20)]	(\$179,245) \$2,349,311 \$0 \$3,370 \$30,294,929	99.2566% (c) (\$177,9 99.2566% (c) \$2,331,6 \$33,207,3	46 50.9079% \$0 50.9079% 70 50.9079%	(\$90,571) \$1,187,094 \$0 <u>\$1,716</u> \$15,377,923	Line 13 Attachment 5 Line 6 Line 15 FERC Form 1 Page 350.18c
22	Payroll Tax Expense	\$2,067,627	99.7459% (a) \$2,062,3	73 50.9079%	\$1,049,911	FERC Form 1 Page 263.3,4i - Footnote (d)
((d) (d) Payroll taxes FERC Form 1, page 263.i		(e) Property Ta:	es FF1, Page 263i		
	Federal Unemployment FICA Payroll Taxes State Unemployment Total	(\$37,667) \$2,105,294 \$0 \$0 \$2,067,627	Massachuse New Hamps Vermont Maine Rhode Islan	hire \$2,582,427 \$685,578 \$0		

Connecticut

\$0 \$22,630,955

(a) Worksheet 7, Line 11
(b) Worksheet 7 Line 3
(c) Worksheet 7 Line 16
(d) Transmission Only - Payroll Taxes - Specifically identified in FERC From 1
(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

PTF Revenue Requirements Worksheet 7 of 8

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1 2	PTF Transmission Investment Total Transmission Investment	\$755,657,102 \$1,484,361,243	Attachment 1, Page 1 FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	50.9079%	
	Transmission Wages and Salaries Allocation Factor		
4 5 6	Direct Transmission Wages and Salaries Affiliated Company Transmission Wages and Salaries Total Transmission Wages and Salaries (Line 4 + Line 5)	\$0 <u>\$22,444,501</u> \$22,444,501	FERC Form 1 Page 354.14b General Ledger Query
7 8 9 10	Total Wages and Salaries Administrative and General Wages and Salaries Affiliated Company Wages and Salaries less A&G Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$0 \$0 <u>\$22,501,688</u> \$22,501,688	FERC Form 1 Page 354.28b FERC Form 1 Page 354.27b General Ledger Query
11	Percent Allocation (Line 6/Line 10)	99.7459%	
12 13 14	<u>Plant Allocation Factor</u> Total Transmission Investment plus Transmission-Related General Plant (Line 2 of Wkst. 3) = Revised Numerator (Line 12 + Line 13)	\$1,484,361,243 <u>\$6,877,350</u> \$1,491,238,593	Line 2 Worksheet 5, Line 3, Column 3
15	Total Plant in Service	\$1,502,407,856	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2566%	
17 18 19 20	Post-2003 PTF Allocation Factor Total Post-2003 PTF Investment Total Transmission Investment Percent Allocation (Line 17/Line 18) for Post-2003 to Total Tx Total Invst in Tx Plant/Total Plant in Serv *	\$ 213,120,061 \$1,484,361,243 14.3577%	Attachment 1 Line 7 Line 2
20	Post-2003 PTF Tx Plant/Total Invst in Tx Plant	14.2510%	Line 19 * Line 16

New England Power Company Post-96 RNs Revenue Requirments For Test Year Ended 12/31/2010

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

PTF Supporting Facilities 115 kV Millbury-Medway 201 Line HQ Phase II - AC in MA 345 kV "stabilizer" 342 Line 345 kV Carver - Walpole 331 Line Second Canal Line	FERC Form 1 Reference Pg 332 Line 2 Col (g) Pg 332 Line 5 Col (g) Pg 332 Line 3 Col (g) Pg 332 Line 13 Col (g)	Revenues (a)	Expenses (b) \$0 \$0 \$0 \$0
HQ Phase II - AC in MA 345 kV "stabilizer" 342 Line 345 kV Carver - Walpole 331 Line	Pg 332 Line 5 Col (g) Pg 332 Line 3 Col (g)	(a)	\$0 \$0
HQ Phase II - AC in MA 345 kV "stabilizer" 342 Line 345 kV Carver - Walpole 331 Line	Pg 332 Line 5 Col (g) Pg 332 Line 3 Col (g)		\$0
345 kV "stabilizer" 342 Line 345 kV Carver - Walpole 331 Line	Pg 332 Line 3 Col (g)		
345 kV Carver - Walpole 331 Line	° (°)		\$0
	Pg 332 Line 13 Col (g)		ψυ
Second Canal Line			\$0
	Pg 332 Line 4 Col (g)		\$0
Bell Rock Road	Page 330.5 Line 12	<mark>\$0</mark>	
Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV Tewksbury- Woburn 338 Line]	Page 330 Line 4	\$0	
Boston-Edison [115 kV Tewksbury - Woburn M139 line - 115kV Tewksbury-Woburn N140 Line]	Page 330 Line 3	\$0	
Public Service CoMoore 115 kV Substation	Page 330.1 Line 5	<mark>\$0</mark>	
Boston Edison -345 kV Golden Hills-Mystic 349 Line	Page 330 Line 2	\$0	
Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrool	Page 330.1 Line 8	<mark>\$0</mark>	
345 kV Medway - Bridgewater 344 Line	Pg 330.5, Line 11	\$0	
Chester SVC	Transmission Billing		\$0
HQ Phase II - AC in MA	Page 330 Line 11	\$0	
MWRA Transmission (MDC)	Contract - Line Lease/Use		\$0
Comerford 115 kV Substation	Page 330.1 Line 12	\$0	
	Totolo	¢0	\$0
E F E E C I F	Bell Rock Road Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV Tewksbury-Woburn 338 Line] Boston-Edison [115 kV Tewksbury - Woburn M139 line - 115kV Fewksbury-Woburn N140 Line] Public Service CoMoore 115 kV Substation Boston Edison -345 kV Golden Hills-Mystic 349 Line Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrool 345 kV Medway - Bridgewater 344 Line Chester SVC HQ Phase II - AC in MA MWRA Transmission (MDC)	Bell Rock Road Page 330.5 Line 12 Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV Tewksbury- Page 330.5 Line 12 Woburn 338 Line] Page 330 Line 4 Boston-Edison [115 kV Tewksbury - Woburn M139 line - 115kV Page 330 Line 4 Fewksbury-Woburn N140 Line] Page 330.1 Line 5 Public Service CoMoore 115 kV Substation Page 330.1 Line 5 Boston Edison -345 kV Golden Hills-Mystic 349 Line Page 330.1 Line 8 B45 kV Medway - Bridgewater 344 Line Pg 330.5, Line 11 Chester SVC Transmission Billing HQ Phase II - AC in MA Page 330 Line 1 WWRA Transmission (MDC) Contract - Line Lease/Use	Bell Rock Road Page 330.5 Line 12 \$0 Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV Tewksbury- Woburn 338 Line] Page 330 Line 4 \$0 Boston-Edison [115 kV Tewksbury - Woburn M139 line - 115kV Fewksbury-Woburn N140 Line] Page 330 Line 3 \$0 Public Service CoMoore 115 kV Substation Page 330.1 Line 5 \$0 Boston Edison -345 kV Golden Hills-Mystic 349 Line Page 330.1 Line 5 \$0 Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabroo) Page 330.1 Line 8 \$0 B45 kV Medway - Bridgewater 344 Line Pg 330.5, Line 11 \$0 Chester SVC Transmission Billing \$0 HQ Phase II - AC in MA Page 330.1 Line 12 \$0 Comerford 115 kV Substation Page 330.1 Line 12 \$0

Attachment 1

New England Power Company 2010 Informational Filing PTF Plant Allocation

				Percent Pre/Post
1	2009	Pre-1997 PTF Transmission Plant	\$352,386,820	
2	2009	Post-1996 PTF Transmission Plant	\$664,596,724	
3	2010	Additions/Retirements	\$89,789,358	
4	2010	Pre-1997 PTF Transmission Plant	\$351,115,800	31.72%
5	2010	Post-1996 PTF Transmission Plant	\$755,657,102	68.28%
6	2010	Total PTF Transmission Plant	\$1,106,772,902	100.00%
7	2010	Post-2003 PTF Transmission Plant	\$213,120,061	

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5
- 7 PTF Plant Report: Post 2003 RSP Projects

GROSS PLANT ASSOC. WITH HVDC LEASES 2010

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$0
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	0 0 0%
5	Total Gross Plant leased by NHH (a)	\$0
6	Total Land from Sandy Pond to New Hampshire	\$0
7	HVDC lines occupy 35% of Right of Way	0%
8	Total Land leased by NEH (a)	\$0
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$0
Sourc	e: FERC Form 1, Dogo 422.1, Linco 5, L.16	

- 1 FERC Form 1, Page 423.1, Lines 5 + 16
- 2 Total miles used per lease agreement
- 3 Total miles per lease agreement
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- Line 6 * Line 7 8
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

Shading denotes an input

Attachment 3

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2010</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$980,344
2	Less: Specifically identified Transmission-Related Tewksbury Line Hydro-Quebec MontaupTransmission Only 1990 - 1999 1998 Transmission	\$54,708 \$23,543 \$9,713 \$13,959
	1999 Transmission 2000 Transmission 2001 Transmission	\$42,457 (\$8,299) \$23,561
	2002 Transmission 2003 Transmission	\$8,889 \$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission 2010 Transmission	\$98,437 \$79,948
		φ79,940
		\$592,969
3	Total unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.2566%
5 6 7	Allocated Transmission Related Book Depreciation on Equity AFUDC Plus: Specifically Identified Transmission-Related Equity AFUDC Total Transmission-Related Equity AFUDC	\$384,495 <u>\$592,969</u> \$977,464
8 9	Post-96 PTF Allocation Factor Transmission-Related Equity AFUDC	50.9079% \$497,607

Sources:

- 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 6 Post-96 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2010</u>	MECO <u>2010</u>
1	Total Integrated Facilities Charges	\$0	\$0
2	Total 2010 PTF Property	\$0	\$0
3	Total Transmission Plant in 2010	\$0	\$0
4	NECO or MECO PTF Plant Allocator	0.00%	0.00%
5	PTF Related Integrated Facilities Charge	\$0	\$0
6	Total Integrated Facilities	=	\$0

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

Attachment 5

New England Power Company Development of 2010 Regulatory Commission Expense

Line <u>No.</u>		<u>2010</u>	Source
1	Total Regulatory Commission Expense - NEP	\$4,562,078	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$57,482	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$293,722	FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$1,861,563</mark>	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,349,311	Line 1 - (Line 2-5)

Attachment 6

Transmission Rents Received from Electric Property New England Power Company

	<u>2010</u>
Revenues	\$1,124,263
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,124,263
PTF Allocation	50.9079%
Total PTF Revenue	\$572,339

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff New England Power Company

	<u>2010</u>
Revenues	\$2,816,506
Post-96 PTF Percent	68.2757%
Total Post-96 PTF Revenue	\$1,922,989

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Submitted on:		
Revenue Requirements for (year):		Calendar Year 2010
Rates Effective for the Period: Through:		June 2011 May 2012
Customer:	New England Power	Company
Customer's NABs Number:		
Name of Participant responsible for customer's billing:		
DUNs number of Participant responsible for customer's billing:		
	Pre-97 Revenue <u>Requirements</u>	Post-96 Revenue <u>Requirements</u>
Total of Attachment F - Sections A through I	\$88,866,750 (a)	\$121,119,799 (f)
Total of Attachment F - Section J - Support Revenue	\$6,543,377 (b)	\$0 (g)
Total of Attachment F - Section K - Support Expense	\$881,501 (c)	\$0 (h)
Total of Attachment F - Section (L through O)	(\$1,159,454) (d)	(\$2,495,328) ()
Sub Total - Sum (A through I) - J + K + (L through O)	\$82,045,420 (e)=(a)-(b)	+(c)+(d) \$118,624,471 (j)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A	\$19,133,246 (k)
Annual True-up (per Attachment C to Attacment F Im[plementation Rule)	N/A ()	N/A (m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$82,045,420 (n)=(e) + ()) \$137,757,717 (0)=(j)+
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement and Post-96 Revenue Requirements Subtotals for rate calculations unde		\$219,803,137 (p) = (n)

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2010

PRE-1997

			-1337		
	Sha	ading denotes an input			
			Attachment F		
	Ι.	INVESTMENT BASE	Reference	NEP	Reference
Line No.			Section:		
1	-	Transmission Plant	(A)(1)(a)	\$338,029,073	Worksheet 3, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$1,626,789	Worksheet 3, line 3 column 5
3		Plant Held For Future Use	(A)(1)(c)	\$243,112	Worksheet 3, line 5 column 5
4		Total Plant (Lines 1+2+3)		\$339,898,974	
		, , , , , , , , , , , , , , , , , , ,			
5		Accumulated Depreciation	(A)(1)(d)	(\$78,290,517)	Worksheet 3, line 8 column 5
6		Accumulated Deferred Income Taxes	(A)(1)(e)	(\$74,349,701)	Worksheet 3, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(f)	\$164,953	Worksheet 3, line 12 column 5
8		Other Regulatory Assets	(A)(1)(g)	\$10,494,594	Worksheet 3, line 16 column 5
9		Net Investment (Line 4+5+6+7+8)	(/(/(3/	\$197,918,303	
				+ - , ,	
10		Prepayments	(A)(1)(h)	\$0	Worksheet 3, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$1,056,577	Worksheet 3, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$1,869,930	Worksheet 3, line 25 column 5
				+)	
13		Total Investment Base (Line 9+10+11+12)		\$200,844,810	
	II.	REVENUE REQUIREMENTS			
14		Investment Return and Income Taxes	(A)	\$25,499,438	Worksheet 2
15		Depreciation Expense	(B)	\$7,710,091	Worksheet 4, line 3, column 5
16		Amortization of Loss on Reacquired Debt	(C)	\$69,376	Worksheet 4, line 4, column 5
17		Investment Tax Credit	(D)	(\$93,702)	Worksheet 4, line 5, column 5
18		Property Tax Expense	(E)	\$5,353,194	Worksheet 4, line 6, column 5
19		Payroll Tax Expense	(F)	\$487,840	Worksheet 4, line 22, column 5
20		Operation & Maintenance Expense	(G)	\$7,814,105	Worksheet 4, line 11, column 5
21		Administrative & General Expense	(H)	\$7,145,335	Worksheet 4, line 21, column 5
22		Transmission Related Integrated Facilities Charge	(I)	\$34,881,073	Attachment 4, line 6
23		Transmission Support Revenue	(J)	(\$6,543,377)	Worksheet 6
24		Transmission Support Expense	(K)	\$881,501	Worksheet 6
25		Transmission Related Expense from Generators	(L)	\$0	Worksheet 7
26		Transmission Related Taxes and Fees Charge	(M)	\$0	
27		Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$893,517)	Attachment 7
28		Transmission Rents Received from Electric Property	(Ó)	(\$265,937)	Attachment 6

\$82,045,420

29 Total Revenue Requirements (Line 14 thru 28)

New England Power Company Annual Revenue Requirements For Costs in 2010

			Pf	Long-term debt Referred Stock Common Equity Estment Return	CAPITALIZATION 12/31/2010 \$410,350,000 \$1,111,700 \$730,712,039 \$1,142,173,739		TALIZATION RATIOS 35.93% 0.10% 63.98% 100.01%	COST OF CAPITAL 1.25% 6.02% 11.64%	COST OF CAPITAL 0.45% 0.01% 7.45% 7.91%	EQUITY PORTION 0.01% 7.45% 7.46%
Cost of Capital Rate=										
(a) Weighted Cost of Capital	=	0.0791								
(b) Federal Income Tax	= ((<u>R.O.E.</u> + (PTF Inv. (Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x -	Federal Income Tax F Federal Income Tax F			
	= (0.0746 +((\$93,702) +	\$231,212) /	\$200,844,810)	x	0.35)		
	=	(1 0.0405379					0.35)		
(c) State Income Tax	= (R.O.E. + (PTF Inv. (Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	+	Federal Income Ta		State Income Tax Ra	ite
	= ((1 	(\$93,702) +	\$231,212) /	\$200,844,810)	+	State Income Tax Ra 0.0405379 0.059466	ate))*)	0.059	466
	=	0.0073230								
(a)+(b)+(c) Cost of Capital Rate	=	0.1269609								
		(PTF)								
INVESTMENT BASE		\$200,844,810	From Worksheet 1							
x Cost of Capital Rate		0.1269609								
= Investment Return and Income Taxes		\$25,499,438	To Worksheet 1							

Shading denotes an input

	Shading denotes an input		(2)		(4)		
Line No.		(1) Total	Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference
						*	
1 2	Transmission Plant Less: Plant Assoc. HVDC Leases					\$351,115,800 (\$13,086,728)	Attachment 1, Page 1 Attachment 2
2	General Plant	\$6,894,870	99.7459% (a)	\$6,877,350	23.6543% (b)		FERC Form 1 Page 207.99g
4	Total (line 1+2+ 3)	\$0,094,070	33.743378 (a)	\$6,877,350	23.0343 % (D)	\$339,655,862	TERCTONN TT age 207.999
5	Transmission Plant Held for Future Use	\$1,027,771		\$1,027,771	23.6543% (b)	\$243,112	FERC Form 1 Page 214.2,4,9
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	(\$325,966,071)		(\$325,966,071)	23.6543% (b)	(\$77,104,992)	FERC Form 1 Page 219.25
7 8	General Plant Accumulated Depreciation Total (line 6+ 7)	(\$5,024,647)	99.7459% (a)	(\$5,011,879) (\$330,977,950)	23.6543% (b)	(\$1,185,525) (\$78,290,517)	FERC Form 1 Page 219.28
0				(\$330,977,930)	-	(\$78,290,517)	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	(\$374,482,727)		(\$371,698,822)	23.6543% (b)	(\$87,922,754)	FERC Form 1 Page 113.62-64
10 11	Accumulated Deferred Taxes (190)	\$57,810,678	99.2566% (c)		23.6543% (b)		FERC Form 1 Page 111.82
11	Total (line 9+ 10)			(\$314,317,909)	-	(\$74,349,701)	
12	Transmission Loss on Reacquired Debt	\$697,351	100.0000%	\$697,351	23.6543% (b)	\$164,953	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$0	99.7459% (a)	\$0	23.6543% (b)	\$0	
14	FAS 109 (Asset Account 182.3)	\$44,366,536	100.0000%	\$44,366,536	23.6543% (b)	\$10,494,594	FERC Form 1 Page 232.7f
15	FAS 109 (Liability Account 254)	\$0	100.0000%	\$0	23.6543% (b)	\$0	FERC Form 1 Page 278
16	Total (line 13+14+ 15)	\$44,366,536		\$44,366,536	-	\$10,494,594	
17	Transmission Prepayments	\$0	99.7459% (a)	\$0	23.6543% (b)	\$0	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$4,466,745		\$4,466,745	23.6543% (b)	\$1,056,577	FERC Form 1 Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$7,814,105	Worksheet 1, Line 20
21	Administrative & General Expense					\$7,145,335	Worksheet 1, Line 21
22	Transmission Support Expense				-	\$0	Worksheet 6
23	Subtotal (line 20+21+22)					\$14,959,440	
24 25					-	0.1250	x 45 / 360
	Total (line 23 * line 24)					\$1,869,930	

New England Power Company

(a) Worksheet 5 Line 11(b) Worksheet 5 Line 3(c) Worksheet 5 Line 16

PTF Revenue Requirements Worksheet 4 of 6

	Shading denotes an input		iten Englan	a rower company			
Line No.		(1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference for Col (1)
1 2 3	Depreciation Expense Transmission Depreciation General Depreciation	\$32,237,934 \$357,854	99.7459% (a)	\$32,237,934 \$356,945 \$32,594,879	23.6543% (b) 23.6543% (b)	\$7,625,658 \$84,433 \$7,710,091	FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
4	Amortization of Loss on Reacquired Debt	\$293,292	100.0000%	\$293,292	23.6543% (b)	\$69,376	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$396,129)	100.0000%	(\$396,129)	23.6543% (b)	(\$93,702)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$22,630,955	100.0000%	\$22,630,955	23.6543% (b)	\$5,353,194	FERC Form 1 Page 263.10,17,23,28i - Footnote (e)
7 8 9 10 11	Transmission Operation and Maintenance Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) **Station Expenses & Rents - #562 / #567 O&M less lines 8, 9 & 10	\$60,951,521 \$16,215,370 \$11,701,546 \$0 \$33,034,605		\$60,951,521 \$16,215,370 \$11,701,546 \$33,034,605	23.6543% (b) 23.6543% (b) 23.6543% (b) 23.6543% (b)	\$14,417,656 \$3,835,632 \$2,767,919 \$0 \$7,814,105	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15 16 17 18 19 20	Transmission Administrative and General Total Administrative and General Less: Property Insarance (#920) Less: General Advertising Expense (#920) Less: General Advertising Expense (#920) Subtotal [[Ine 12 minus (13 thru 15]] Pus: Property Insurance Allocated using Plant Allocatior Pus: Regulatory Commission Expense Pus: Specifically identified Trans. Related Regulatory Expense Pus: Specifically identified Trans. Related Regulatory Expense	\$32,504,326 (\$179,245) \$4,562,078 \$28,121,493 (\$179,245) \$2,349,311 \$0 \$3,370	99.7459% (a) 99.2566% (c) 99.2566% (c)	\$28,050,036 (\$177,912) \$2,331,846 \$0 \$3,370	23.6543% (b) 23.6543% (b) 23.6543% (b) 23.6543% (b)	\$6,635,040 (\$42,084) \$551,582 \$0 \$797	FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b Line 13 Attachment 5 Line 6 Line 15 FERC Form 1 Page 350.18c
21 22	Total A&G [line 16 + (17 thru 20)] Payroll Tax Expense	\$30,294,929	99.7459% (a)	\$30,207,340	- 23.6543% (b)	\$7,145,335 \$487,840	FERC Form 1 Page 263.3.4i - Footnote (d)
(d) Payroll taxes FERC Form 1, page 263.i		(e)	Property Taxes F	F1, Page 263i		
	Federal Unemployment FICA Payroll Taxes State Unemployment Total	(\$37,667) \$2,105,294 \$0 \$2,067,627		Massachusetts New Hampshire Vermont Maine Rhode Island Connecticut	\$19,219,508 \$2,582,427 \$685,578 \$0 \$143,442 \$0 \$22,630,955		

New England Power Company

(a) Worksheet 5 Line 11
(b) Worksheet 5 Line 3
(c) Worksheet 5 Line 16
(d) Transmission Only - Payroll Taxes - Specifically identified in FERC From 1
(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1 2	PTF Transmission Investment	\$351,115,800 \$1,484,361,243	Attachment 1, Page 1 FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	23.6543%	
	Transmission Wages and Salaries Allocation Factor		
4 5 6	Direct Transmission Wages and Salaries Affiliated Company Transmission Wages and Salaries Total Transmission Wages and Salaries (Line 4 + Line 5)	\$0 <u>\$22,444,501</u> \$22,444,501	FERC Form 1 Page 354.14b General Ledger Query
7 8 9 10	Total Wages and Salaries Administrative and General Wages and Salaries Affiliated Company Wages and Salaries less A&G Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$0 \$0 <u>\$22,501,688</u> \$22,501,688	FERC Form 1 Page 354.28b FERC Form 1 Page 354.27b General Ledger Query
11	Percent Allocation (Line 6/Line 10)	99.7459%	
12 13 14	Plant Allocation Factor Total Transmission Investment plus Transmission-Related General Plant = Revised Numerator (Line 12 + Line 13)	\$1,484,361,243 <u>\$6,877,350</u> \$1,491,238,593	Line 2 Worksheet 3, Line 3, Column 3
15	Total Plant in Service	\$1,502,407,856	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2566%	

New England Power Company Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2010

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			TOTAL		
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses	
			(a)	(b)	
NSTAR	115 kV Millbury-Medway 201 Line	Pg 332 Line 2 Col (g)		\$4,633	
	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$106,178	
	345 kV "stabilizer" 342 Line	Pg 332 Line 3 Col (g)		\$63,954	
	345 kV Carver - Walpole 331 Line	Pg 332 Line 13 Col (g)		\$12,079	
	Second Canal Line	Pg 332 Line 4 Col (g)		\$47,040	
	Bell Rock Road	Page 330.5 Line 12	\$37,353		
	Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV Tewksbury- Woburn 338 Line]	Page 330 Line 4	\$72,849		
	Boston-Edison [115 kV Tewksbury - Woburn M139 line - 115kV Tewksbury-Woburn N140 Line]	Page 330 Line 3	\$108,916		
	Boston Edison -345 kV Golden Hills-Mystic 349 Line	Page 330 Line 2	\$477,334		
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrook	Page 330.1 Line 8	\$240,367 *		
EUA	345 kV Medway - Bridgewater 344 Line	Pg 330.5, Line 11	\$193,987		
NU	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5	\$13,319		
NEP	Chester SVC	Transmission Billing		\$647,617	
	HQ Phase II - AC in MA	Page 330 Line 11	\$5,358,445		
	MWRA Transmission (MDC)	Contract - Line Lease/Use		\$0	
VT Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12	\$40,807		
		Totals	\$6,543,377	\$881,501	

* Adjusted FERC Form Pg 330.1 Line 8 to reflect FERC Order #ER09-1764-000 amending the Seabrook Transmission Support Agreement.

	 (
FF1 Pg 330.1 Line 8	\$ (3,957,093)
Add Back: FP&L Write-Off	\$ 3,703,371
Add Back: Refunds to	
MMWEC, Taunton & Hudson	\$ 494,089
FF1 Adjusted for RNS	\$ 240,367

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 22, Column 5)

\$0

New England Power Company 2010 Informational Filing PTF Plant Allocation

			_	Percent Pre/Post
1	2009	Pre-1997 PTF Transmission Plant	\$352,386,820	
2	2009	Post-1996 PTF Transmission Plant	\$664,596,724	
3	2010	Additions/Retirements	\$89,789,358	
4	2010	Pre-1997 PTF Transmission Plant	\$351,115,800	31.72%
5	2010	Post-1996 PTF Transmission Plant	<mark>\$755,657,102</mark>	68.28%
6	2010	Total PTF Transmission Plant	\$1,106,772,902	100.00%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5

GROSS PLANT ASSOC. WITH HVDC LEASES 2010

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	<mark>\$14,269,187</mark>
2 3 4	<u>Allocation</u> Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	224 253 89%
5	Total Gross Plant leased by NHH (a)	\$12,699,576
6	Total Land from Sandy Pond to New Hampshire	\$1,106,146
7	HVDC lines occupy 35% of Right of Way	35%
8	Total Land leased by NEH (a)	\$387,151
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$13,086,728
<u>Sourc</u>	<u>e:</u>	
1	FERC Form 1, Page 422.1-423.1, Lines 5 + 16 col (I)	

- 2 Total miles used per lease agreement
- 3 FERC Form 1, Page 422.1 Lines 5 + 16 col (f)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2010</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$980,344
2	Less: Specifically Identified Transmission-Related	
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission Only 1990 - 1999	\$9,713
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	2010 Transmission	\$79,948
		\$592,969
3	Total Unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.2566%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,495
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$592,969</u>
7	Total Transmission-Related Equity AFUDC	\$977,464
8	Pre-97 PTF Allocation Factor	23.6543%
9	Transmission-Related Equity AFUDC	\$231,212

Sources:

- 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 5 Pre-97 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2010</u>	MECO <u>2010</u>
1	Total Integrated Facilities Charges	\$43,062,545	\$8,366,692
2 3 4	Total 2010 PTF Property Total Transmission Plant in 2010 NECO or MECO PTF Plant Allocator	\$209,109,440 \$290,660,448 71.94%	\$21,182,153 \$45,434,656 46.62%
5	PTF Related Integrated Facilities Charge	\$30,980,427	\$3,900,647
6	Total Integrated Facilities	=	\$34,881,073

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2010 Regulatory Commission Expense

Line <u>No.</u>		<u>2010</u>	<u>Source</u>
1	Total Regulatory Commission Expense - NEP	\$4,562,078	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$57,482	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$293,722	FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$1,861,563</mark>	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,349,311	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property New England Power Company

	<u>2010</u>
Revenues	\$1,124,263
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,124,263
PTF Allocation	23.6543%
Total PTF Revenue	\$265,937

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2010</u>
Revenues	\$2,816,506
Pre-97 PTF Percent	31.7243%
Total Pre-97 PTF Revenue	\$ 893,517

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Submitted on:	_			
Revenue Requirements for (year):		Calenc	lar Year 2011	
Rates Effective for the Period: Through:			ine 2012 lay 2013	
Customer:	New England Po	ower Compa	ny	
Customer's NABs Number:				
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:	<u> </u>			
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$101,550,462	(a)	\$131,389,736	(f)
Total of Attachment F - Section J - Support Revenue	\$5,663,545	(b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$723,254	(c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$507,986)	(d)	(\$1,191,607)	(i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$96,102,185	(e)=(a)-(b)+(c)+(d)	\$130,198,129	(j)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A		\$37,048,823	(k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	N/A	(1)	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$96,102,185	(n)=(e)+(l)	\$167,246,952	(0)=(j)+(k
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest)			\$263,349,137	(p) = (n)

\$130,198,129

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2011

POST-1996

I. INVESTMENT BASE Reference Line No. Transmission Plant (A)(1)(a) \$\$19,449,952 Worksheet 5, line 142 column 5 2 General Plant (A)(1)(b) \$\$23,282,852 Worksheet 5, line 3 column 5 3 Plant Held For Future Use (A)(1)(c) \$\$22,828,852 Worksheet 5, line 5 column 5 4 Total Plant (Lines 1+2+3) (A)(1)(c) \$\$223,261,289 Worksheet 5, line 1 column 5 5 Accumulated Depreciation (A)(1)(e) (\$197,769,040) Worksheet 5, line 1 column 5 7 Loss On Reacquired Deter (A)(1)(e) \$\$215,570 Worksheet 5, line 1 column 5 8 Other Regulatory Assets (A)(1)(g) \$\$244,540,668 Worksheet 5, line 1 column 5 10 Prepayments (A)(1)(g) \$\$44,540,668 Worksheet 5, line 2 column 5 12 Cash Working Capital (A)(1)(g) \$\$408,430,668 Worksheet 5, line 2 column 5 14 Total Investment Return and Income Taxes (A) \$\$65,757,864 Worksheet 6, line 3, column 5 14 Total Investment Tax Credit (D) \$\$203,026				Attachment F		
Image: first state (A)(1)(a) \$\$19,449,952 Worksheet 5, line 12, column 5 2 General Plant (A)(1)(b) \$3,282,865 Worksheet 5, line 3 column 5 3 Plant Held For Future Use (A)(1)(c) \$5283,485 Worksheet 5, line 3 column 5 4 Total Plant (Lines 1+2+3) (A)(1)(c) \$5283,261,289 Worksheet 5, line 3 column 5 5 Accumulated Depreciation (A)(1)(e) (\$179,110,753) Worksheet 5, line 1 column 5 6 Accumulated Deferred Income Taxes (A)(1)(e) \$219,413,002 Worksheet 5, line 1 column 5 7 Loss On Reacquired Debt (A)(1)(b) \$21,943,806 Worksheet 5, line 1 column 5 8 Other Regulatory Assets (A)(1)(b) \$21,943,806 Worksheet 5, line 1 column 5 10 Prepayments (A)(1)(b) \$11,925 Worksheet 5, line 1 column 5 12 Cash Working Capital (A)(1)(b) \$11,925 Worksheet 5, line 2 column 5 13 NEEWS CWIP (A)(1)(k) \$10,910,787 Worksheet 5, line 2 column 5 14 Total Investment Return and Income Taxes		Ι.	INVESTMENT BASE	Reference	NEP	Reference
2 General Plant (Å)(1)(b) \$32,222,822 Worksheet 5, line 3 column 5 3 Plant Heid For Future Use Total Plant (Lines 1+2+3) (Å)(1)(c) \$32,282,182 Worksheet 5, line 5 column 5 5 Accumulated Depreciation (Å)(1)(d) (\$181,769,040) Worksheet 5, line 5 column 5 6 Accumulated Depreciation (Å)(1)(d) (\$181,769,040) Worksheet 5, line 6 column 5 7 Loss On Reacquired Debt (Å)(1)(e) \$21,943,602 Worksheet 5, line 11 column 5 8 Other Regulatory Assets (Å)(1)(f) \$21,943,602 Worksheet 5, line 17 column 5 9 Net Investment (Line 4+5+6+7+8) Varksheet 5, line 17 column 5 Stads,540,668 10 Prepayments (Å)(1)(f) \$1,967,145 Worksheet 5, line 12 column 5 12 Cash Working Capital (Å)(1)(f) \$1,967,745 Worksheet 5, line 26 column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 Worksheet 6, line 3, column 5 14 Total Investment Tax Credit (C) \$14,3011 Worksheet 6, line 2, column 5 19 Property Tax Expense (F) \$1,165,718 Worksheet 6, line 2, column 5 <	Line No.			Section:		
3 Plant Held For Future Use (Å)(1)(c) \$\$222,485 Worksheet 5, line 5 column 5 4 Total Plant (Lines 1+2+3) (Å)(1)(c) \$\$822,261,289 Worksheet 5, line 8 column 5 5 Accumulated Depreciation (Å)(1)(d) (\$181,769,040) Worksheet 5, line 8 column 5 6 Accumulated Deferred Income Taxes (Å)(1)(e) (\$179,110,753) Worksheet 5, line 12 column 5 7 Loss On Reacquired Debt (Å)(1)(f) \$21,570 Worksheet 5, line 12 column 5 8 Other Regulatory Assets (Å)(1)(f) \$21,943,602 Worksheet 5, line 12 column 5 9 Net Investment (Line 4+5+6+7+8) \$449,540,668 Worksheet 5, line 12 column 5 Worksheet 5, line 12 column 5 10 Prepayments (Å)(1)(f) \$1,967,145 Worksheet 5, line 25 column 5 12 Cash Working Capital (Å)(1)(f) \$4,083,981 Worksheet 5, line 2 column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 Worksheet 6, line 2, column 5 14 Total Investment Tax Credit (D) (\$20,202) Worksheet 6, line 2, column 5 15 Investment Tax Credit (D) (\$202,026) Wor	1		Transmission Plant	(A)(1)(a)	\$819,449,952	Worksheet 5, line 1&2 column 5
4 Total Plant (Lines 1+2+3) \$823,261,289 5 Accumulated Depreciation (A)(1)(d) (\$181,769,040) Worksheet 5, line 8 column 5 6 Accumulated Deforred Income Taxes (A)(1)(e) (\$179,110,753) Worksheet 5, line 11 column 5 7 Loss On Reacquired Debt (A)(1)(e) \$21,943,602 Worksheet 5, line 12 column 5 9 Net Investment (Line 4+5+6+7+8) \$444,540,668 Worksheet 5, line 12 column 5 10 Prepayments (A)(1)(i) \$1,967,145 Worksheet 5, line 12 column 5 11 Materials Supplies (A)(1)(i) \$1,967,145 Worksheet 5, line 2 column 5 12 Cash Working Capital (A)(1)(i) \$1,967,145 Worksheet 5, line 26 column 5 13 NEEWS CWIP (A)(1)(i) \$1,967,145 Worksheet 5, line 26 column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 Worksheet 5, line 3, column 5 14 Total Investment Tax Credit (D) (\$203,026) Worksheet 6, line 4, column 5 19 Property Tax Expense (F) \$11,65,718 Worksheet 6, line 4, column 5 21 Operation 6 & Maintenance Expense	2		General Plant	(A)(1)(b)	\$3,282,852	Worksheet 5, line 3 column 5
5 Accumulated Deperciation (A)(1)(d) (\$187,79,040) Worksheet 5, line 3 column 5 6 Accumulated Deferred Income Taxes (A)(1)(f) \$21,570 Worksheet 5, line 12 column 5 7 Loss On Reacquired Debt (A)(1)(f) \$21,570 Worksheet 5, line 12 column 5 9 Net Investment (Line 4+5+6+7+8) (A)(1)(f) \$21,943,602 Worksheet 5, line 12 column 5 10 Prepayments (A)(1)(f) \$1,967,145 Worksheet 5, line 12 column 5 11 Materials & Supplies (A)(1)(f) \$1,967,145 Worksheet 5, line 12 column 5 12 Cash Working Capital (A)(1)(f) \$1,967,145 Worksheet 5, line 25 column 5 13 NEEWS CWIP (A)(1)(k) \$10,910,787 Worksheet 5, line 26 column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 Worksheet 6, line 3, column 5 15 Investment Tax Credit (D) \$21,920,226) Worksheet 6, line 4, column 5 19 Property Tax Expense (F) \$11,857,188 Worksheet 6, line 2, column 5 21 Operation & Maintenance Expense (F) \$11,67,7189 Worksheet 6, line 2, column 5	3		Plant Held For Future Use	(A)(1)(c)	\$528,485	Worksheet 5, line 5 column 5
6 Accumulated Deferred Income Taxes (A)(1)(e) (\$179,110,753) Worksheet 5, line 11 column 5 7 Loss On Reacquired Debt (A)(1)(f) \$215,570 Worksheet 5, line 12 column 5 9 Net Investment (Line 4+5+6+7+8) (A)(1)(g) \$213,570 Worksheet 5, line 17 column 5 10 Prepayments (A)(1)(h) \$71,225 Worksheet 5, line 17 column 5 11 Materials & Supplies (A)(1)(h) \$71,225 Worksheet 5, line 17 column 5 12 Cash Working Capital (A)(1)(i) \$408,3981 Worksheet 5, line 26 column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 Worksheet 6, line 2, column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 Worksheet 6, line 4, column 5 15 Investment Tax Credit (D) \$203,026 Worksheet 6, line 6, column 5 18 Investment Tax Credit (D) \$12,027 Worksheet 6, line 6, column 5 20 Payroll Tax Expense (E) \$13,911,108 Worksheet 6, line 6, column 5 21 Operation Expense (F) <	4		Total Plant (Lines 1+2+3)		\$823,261,289	
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8 Other Regulatory Assets (A)(1)(g) \$21,943,602 Worksheet 5, line 16 column 5 9 Net Investment (Line 4+5+6+7+8) (A)(1)(h) \$1,225 Worksheet 5, line 17 column 5 10 Prepayments (A)(1)(h) \$1,967,145 Worksheet 5, line 10 column 5 11 Materials & Supplies (A)(1)(i) \$1,967,145 Worksheet 5, line 10 column 5 12 Cash Working Capital (A)(1)(i) \$1,40,83,981 Worksheet 5, line 26 column 5 13 NEEWS CWIP (A)(1)(k) \$10,910,787 Worksheet 5, line 26 column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 \$501,573,805 II. REVENUE REQUIREMENTS 15 Investment Return and Income Taxes (A) \$65,757,864 Worksheet 3, line 3, column 5 16 Depreciation Expense (B) \$17,882,627 Worksheet 6, line 3, column 5 18 Investment Tax Credit (D) (\$203,026) Worksheet 6, line 1, column 5 18 Investment Tax Credit (D) (\$203,026) Worksheet 6, line 2, column 5 20 Payroll Tax Expense (F) \$1,165,718 Worksheet 6, line	6		Accumulated Deferred Income Taxes	(A)(1)(e)	(\$179,110,753)	Worksheet 5, line 11 column 5
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10 Prepayments (A)(1)(h) \$71,225 Worksheet 5, line 17 column 5 11 Materials & Supplies (A)(1)(i) \$1,967,145 Worksheet 5, line 18 column 5 12 Cash Working Capital (A)(1)(i) \$4,083,981 Worksheet 5, line 25 column 5 13 NEEWS CWIP (A)(1)(i) \$4,083,981 Worksheet 5, line 26 column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 Worksheet 3, line 26 column 5 14 Total Investment Return and Income Taxes (A) \$65,757,864 Worksheet 3, line 3, column 5 15 Investment Return and Income Taxes (B) \$17,882,627 Worksheet 6, line 3, column 5 16 Depreciation Expense (B) \$17,882,627 Worksheet 6, line 4, column 5 18 Investment Tax Credit (D) (\$203,026) Worksheet 6, line 4, column 5 20 Payroll Tax Expense (E) \$13,917,1598 Worksheet 6, line 2, column 5 21 Operation & Maintenance Expense (F) \$1,165,718 Worksheet 6, line 2, column 5 22 Payroll Tax Expense (H) \$1,470,665 Worksheet 6, line 2, column 5 23<	8		Other Regulatory Assets	(A)(1)(g)	\$21,943,602	Worksheet 5, line 16 column 5
11 Materials & Supplies (A)(1)(i) \$1,967,145 Worksheet 5, line 18 column 5 12 Cash Working Capital (A)(1)(i) \$4,083,981 Worksheet 5, line 25 column 5 13 NEEWS CWIP (A)(1)(i) \$10,910,787 Worksheet 5, line 26 column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 \$501,573,805 14 Total Investment Return and Income Taxes (A) \$65,757,864 Worksheet 3, line 3, column 5 15 Investment Return and Income Taxes (B) \$17,882,627 Worksheet 6, line 3, column 5 16 Depreciation Expense (B) \$13,971,698 Worksheet 6, line 4, column 5 18 Investment Tax Credit (D) \$203,026) Worksheet 6, line 5, column 5 19 Property Tax Expense (F) \$11,65,718 Worksheet 6, line 6, column 5 20 Payroll Tax Expense (G) \$17,931,179 Worksheet 6, line 1, column 5 21 Operation & Maintenance Expense (H) \$14,740,665 Worksheet 6, line 2, column 5 22 Administrative & General Expense (H) \$14,740,665 Worksheet 6, line 2, column 5	9		Net Investment (Line 4+5+6+7+8)		\$484,540,668	
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13 NEEWS CWIP (A)(1)(k) \$10,910,787 Worksheet 5, line 26 column 5 14 Total Investment Base (Line 9+10+11+12+13) \$501,573,805 II. REVENUE REQUIREMENTS 15 Investment Return and Income Taxes (A) \$65,757,864 Worksheet 3 16 Depreciation Expense (B) \$17,882,627 Worksheet 6, line 3, column 5 17 Amortization of Loss on Reacquired Debt (C) \$143,011 Worksheet 6, line 4, column 5 18 Investment Tax Credit (D) (\$203,026) Worksheet 6, line 2, column 5 19 Property Tax Expense (E) \$13,971,698 Worksheet 6, line 2, column 5 20 Payroll Tax Expense (G) \$17,931,179 Worksheet 6, line 2, column 5 21 Operation & Maintenance Expense (G) \$17,931,179 Worksheet 6, line 2, column 5 22 Administrative & General Expense (H) \$14,740,665 Worksheet 6, line 6, column 5 23 Transmission Related Integrated Facilities Charge (J) \$0 Worksheet 8, line 6 24 Transmission Support Revenue (J) \$0 Worksheet 8, line 6 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
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I. REVENUE REQUIREMENTS 15 Investment Return and Income Taxes (A) \$65,757,864 Worksheet 3 16 Depreciation Expense (B) \$17,882,627 Worksheet 6, line 3, column 5 17 Amortization of Loss on Reacquired Debt (C) \$143,011 Worksheet 6, line 4, column 5 18 Investment Tax Credit (D) (\$203,026) Worksheet 6, line 5, column 5 19 Property Tax Expense (E) \$13,971,698 Worksheet 6, line 2, column 5 20 Payroll Tax Expense (F) \$1,165,718 Worksheet 6, line 2, column 5 21 Operation & Maintenance Expense (G) \$17,931,179 Worksheet 6, line 11, column 5 23 Transmission Related Integrated Facilities Charge (I) \$0 Attachment 4, line 6 24 Transmission Support Revenue (J) \$0 Worksheet 8 25 Transmission Related Expense from Generators (L) \$0 26 Transmission Related Expense from Generators (L) \$0 26 Transmission Related Expense from Generators (L) \$0 27 Transmission Related Expense fro	13		NEEWS CWIP	(A)(1)(k)	\$10,910,787	Worksheet 5, line 26 column 5
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16Depreciation Expense(B)\$17,882,627Worksheet 6, line 3, column 517Amortization of Loss on Reacquired Debt(C)\$143,011Worksheet 6, line 4, column 518Investment Tax Credit(D)(\$203,026)Worksheet 6, line 5, column 519Property Tax Expense(E)\$13,971,698Worksheet 6, line 6, column 520Payroll Tax Expense(F)\$11,165,718Worksheet 6, line 22, column 521Operation & Maintenance Expense(G)\$17,931,179Worksheet 6, line 11, column 522Administrative & General Expense(H)\$14,740,665Worksheet 6, line 21, column 523Transmission Related Integrated Facilities Charge(I)\$0Attachment 4, line 624Transmission Support Revenue(J)\$0Worksheet 825Transmission Related Expense from Generators(L)\$026Transmission Related Taxes and Fees Charge(M)\$027Transmission Related Taxes and Fees Charge(M)\$028Revenue for ST Trans. Service Under NEPOOL Tariff(N)(\$567,475)Attachment 7		١١.	REVENUE REQUIREMENTS			
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17Amortization of Loss on Reacquired Debt(C)\$143,011Worksheet 6, line 4, column 518Investment Tax Credit(D)(\$203,026)Worksheet 6, line 5, column 519Property Tax Expense(E)\$13,971,698Worksheet 6, line 6, column 520Payroll Tax Expense(F)\$1,165,718Worksheet 6, line 22, column 521Operation & Maintenance Expense(G)\$17,931,179Worksheet 6, line 11, column 522Administrative & General Expense(H)\$14,740,665Worksheet 6, line 21, column 523Transmission Related Integrated Facilities Charge(I)\$0Attachment 4, line 624Transmission Support Revenue(J)\$0Worksheet 825Transmission Related Expense from Generators(L)\$0Worksheet 826Transmission Related Taxes and Fees Charge(M)\$0\$027Transmission Related Taxes and Fees Charge(M)\$0Attachment 728Revenue for ST Trans. Service Under NEPOOL Tariff(N)(\$567,475)Attachment 7						
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25Transmission Support Expense(K)\$0Worksheet 826Transmission Related Expense from Generators(L)\$027Transmission Related Taxes and Fees Charge(M)\$028Revenue for ST Trans. Service Under NEPOOL Tariff(N)(\$567,475)Attachment 7						
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28 Revenue for ST Trans. Service Under NEPOOL Tariff (N) (\$567,475) Attachment 7	27					
			5	. ,		Attachment 7
	29		Transmission Rents Received from Electric Property	. ,	(\$624,132)	Attachment 6

30 Total Revenue Requirements (Line 14 thru 28)

New England Power Company Post 1996 Regional Network Service Revenue Requirement For Test Year Ended 12/31/2011

Line No.	Description	Attachment F Reference	Forecasted Amount \$	Reference
1	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA)		\$ 37,168,678	Line 6
2	Forecasted Revenue Requirements for Forecasted Transmission CWIP		\$119,855	Line 9
3	Forecasted Transmission Revenue Requirements		\$ 37,048,823	Line 1 + Line 2
4	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA)	Appendix C iv	\$237,573,000	Project Detail
5	Carrying Charge Factor (CCF)	Appendix C vi	15.64516%	Line 20
6	Forecasted Revenue Requirements for FTPA		\$ 37,168,678	Line 4 * Line 5
7	Forecasted New England Power Company (NEP) NEEWS CWIP (FNCWIP)	Appendix C xiii	\$ (851,389)	Project Detail
8	NEEWS NEP Cost of Capital Rate (NCOC)	Appendix C xiv	14.07757%	Workpaper 4
9	Forecasted Revenue Requirements for FNCWIP		\$ (119,855)	Line 7 * Line 8
	Derivation of Carrying Charge (CCF)			
10	Investment Return and Income Taxes	(A)	\$62,572,390	Summary, Line 14
11	Depreciation Expense	(B)	17,882,627	Summary, Line 15
12	Amortization of Loss on Reacquired Debt	(C)	143,011	Summary, Line 16
13	Investment Tax Credit	(D)	(203,026)	Summary, Line 17
14	Property Tax Expense	(E)	13,971,698	Summary, Line 18
15	Payroll Tax Expense	(F)	1,165,718	Summary, Line 19
16	Operation & Maintenance Expense	(G)	17,931,179	Summary, Line 20
17	Administrative & General Expense	(H)	14,740,665	Summary, Line 21
18	Total Expenses (Lines 10 thru 17)		\$128,204,262	
19	PTF Transmission Plant	(A)(1)(a)	\$819,449,952	Summary, Line 1
20	Carrying Charge Factor (FTPA)		15.64516%	Line 18 / Line 19

New England Power Company Annual Revenue Requirements For Costs in 2011

		Wo

						CAPITALIZATION 12/31/2011		TALIZATION RATIOS	COST OF CAPITAL	COST OF CAPITAL	EQUITY PORTION
				PREFERRI	ERM DEBT ED STOCK ON EQUITY	\$410,350,000 \$1,111,700 \$746,206,523		35.45% 0.10% 64.45%	1.18% 6.02% 11.64%	0.42% 0.01% 7.50%	0.01% 7.50%
				TOTAL INVESTMEN		\$1,157,668,223		100.00%		7.93%	7.51%
Cost of Capital Rate=											
(a) Weighted Cost of Capital	=	0.0793									
			PTF Inv.	Eq. AFUDC							
(b) Federal Income Tax	= ((R.O.E. + ((Tax Credit +	of Deprec. Exp	o.)/	PTF Inv. Base)	- -	Federal Income Ta Federal Income Ta			
	= (0.0751 +	(\$203,026) +		\$583,896) /	\$501,573,805)	x	0.35)		
	=	0.0408473						0.00	,		
(c) State Income Tax	= (R.O.E. + (PTF Inv. (Tax Credit +	Eq. AFUDC of Deprec. Exp)/	PTF Inv. Base)	+	Federal Income	Tax)*	State Income Tax	Pato
	- ((1		о ререс. Сх	<i>.) i</i>	F IT IIIV. Dase)	-	State Income Tax		State income Tax	
	= (0.0751 +	(\$203,026) +		\$583,896) /	\$501,573,805)	+	0.0408473)*	0.05	9466
	=	0.0073789									
(a)+(b)+(c) Cost of Capital Rate	=	0.1275262									
		(PTF)									
INVESTMENT BASE		\$501,573,805	From Worksheet 1								
x Cost of Capital Rate		0.1275262									
= Investment Return and Income Taxes		\$63,963,801	To Worksheet 1								
INVESTMENT BASE (Excluding NEEWS	CWIP)	\$490,663,019	From Worksheet 1								
x Cost of Capital Rate		0.1275262									
= Investment Return and Income Taxes		\$62,572,390	To Worksheet 2								
Post 2003 PTF Investment Base w/ Incre Plant In-Service	emental 100 bps:	\$ 213,375,099 (46,695,224)	From Attachment 1 From Worksheets 5 & 7								
Accumulated Depreciation Accumulate Deferred Income Taxes Total Post-2003 Investment		(46,311,697) (46,311,697) \$ 120,368,177	From Worksheets 5 & 7 Calculated								
Incremental ROE:	1.00%		Calculated								
Federal Income Taxes: State Income Taxes:		0.00347 0.00063	Per Attachment F Per Attachment F								
Cost of Capital Rate Incremental Return and Taxes on Post-200	3 PTF Investment	0.01054 \$ 1,268,957									
NEEWS In Service w/ In	2051										
NEEWS In-Service w/ Incremental 125 to New England Power NEEWS In-Service Accumulated Depreciation		\$ 52,962,648 (12,062,457)	PowerPlant PTF 4 & 5 r From Worksheets 3 & 5								
Accumulate Deferred Income Taxes Total New England Power NEEWS Inves	stment	(12,062,457) (11,963,383) \$ 28,936,808	From Worksheets 3 & 5 Calculated								
Incremental ROE:	1.25%	,	Calculated								
Federal Income Taxes: State Income Taxes:		0.00434 0.00078	Per Attachment F Per Attachment F								
Cost of Capital Rate Incremental Return and Taxes on NEEWS	PTF Investment	0.01318 \$ 381,325									
l		T									
NEEWS Allocation Factor Total Transmission Investment Total NEEWS In-Service - NEP For Accumulated Depreciation		\$1,593,625,753 \$55,119,725 3.4588%	Worksheet 7 Line 2 Plant Accounting Record	ds							
NEEWS Allocation Factor Plant Allocation Factor For Accumulated Deferred Income	e Taxes	3.4588% 0.992997 3.4345%	Worksheet 7 Line 16								

New England Power Company Annual Revenue Requirements For Costs in 2011

Shading denotes an input

	CAPITALIZATION 12/31/2011	CAPITALIZATION RATIOS	COST OF CAPITAL	COST OF CAPITAL	EQUITY PORTION
LONG-TERM DEBT	\$410,350,000	35.45%	1.18%	0.42%	
PREFERRED STOCK	\$1,111,700	0.10%	6.02%	0.01%	0.01%
COMMON EQUITY	\$746,206,523	64.46%	12.89%	8.31%	8.31%
TOTAL INVESTMENT RETURN	\$1,157,668,223	100.00%		8.74%	8.32%

Cost of Capital Rate=

(a) Weighted Cost of Capital	=	.000	74							
(b) Federal Income Tax	=	(R.O.E. +1	PTF Inv. ((Tax Credit			PTF Inv. Base)	x -	Federal Income Tax Rate Federal Income Tax Rate	_))	
	=	(<u>0.0832</u> (1	+((\$203,026)	š) +	\$583,896) /	\$501,573,805) x -	0.35 0.35	_))	
	=	0.04520	89							
(c) State Income Tax	=	(PTF Inv. ((Tax Credit			PTF Inv. Base)	+	Federal Income Tax State Income Tax Rate)*	State Income Tax Rate
	=	(<u>0.0832</u> (1	+((\$203,026)	<u>;)</u> +	\$583,896) /	\$501,573,805) + -	0.0452089 0.059466)*)	0.059466
	=	0.00816	68							

(a)+(b)+(c) Cost of Capital Rate = 0.1407757
PTF Revenue Requirements Worksheet 5 of 8

	Shading denotes an input		5	1.			
Line No.		(1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference for Col (1)
1						\$819,449,952	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases	PC 200 400	00.00000/ (a)	#C 304 30C	E4 400E0/ (b)	\$0 \$2,282,852	Attachment 2
3 4	General Plant Total (line 1+2+ 3)	\$6,396,486	99.8099% (a)	\$6,384,326 \$6,384,326	51.4205% (b)	\$3,282,852 \$822,732,804	FERC Form 1 page 207.99
4	Total (line $1+2+3$)			φ0,304,320	=	φ 022,732,004	
5	Transmission Plant Held for Future Use	\$1,027,771		\$1,027,771	51.4205% (b)_	\$528,485	FERC Form 1 page 214.2,4,10
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	(\$348,750,683)		(\$348,750,683)	51.4205% (b)	(\$179,329,345)	FERC Form 1 page 219.25
7	General Plant Accumulated Depreciation	(\$4,753,633)	99.8099% (a)		51.4205% (b)_	(\$2,439,695)	FERC Form 1 Page 219.28
8	Total (line 6+ 7)			(\$353,495,279)	=	(\$181,769,040)	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	(\$402,325,609)	99.2997% (c)		51.4205% (b)	(\$205,429,074)	FERC Form 1 page 113.62-64
10	Accumulated Deferred Taxes (190)	\$51,543,505	99.2997% (c)		51.4205% (b)_	\$26,318,321	FERC Form 1 page 111.82
11	Total (line 9+ 10)			(\$348,325,577)	=	(\$179,110,753)	
12	Transmission Loss on Reacquired Debt	\$419,230	100.0000%	\$419,230	51.4205% (b)_	\$215,570	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$0	99.8099% (a)		51.4205% (b)	\$0	
14	FAS 109 (Asset Account 182.3)	\$42,674,813	100.0000%	\$42,674,813	51.4205% (b)	\$21,943,602	FERC Form 1 Page 232.6f
15	FAS 109 (Liability Account 254)	\$0	100.0000%	\$0	51.4205% (b)	\$0	FERC Form 1 Page 278
16	Total (line 13+14+ 15)	\$42,674,813		\$42,674,813	=	\$21,943,602	
17	Transmission Prepayments	\$138,779	99.8099% (a)	\$138,515	51.4205% (b)_	\$71,225	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$3,825,605		\$3,825,605	51.4205% (b)_	\$1,967,145	FERC Form 1 Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$17,931,179	Worksheet 1, Line 20
21	Administrative & General Expense					\$14,740,665	Worksheet 1, Line 21
22	Transmission Support Expense				_	\$0	Worksheet 8
23	Subtotal (line 20+21+22)					\$32,671,844	
24					_	0.1250	x 45 / 360
25	Total (line 23 * line 24)				=	\$4,083,981	
26	NEEWS CWIP	\$10,910,787			=	\$10,910,787	Plant Accounting Records

New England Power Company

(a) Worksheet 7 Line 11(b) Worksheet 7 Line 3(c) Worksheet 7 Line 16

PTF Revenue Requirements Worksheet 6 of 8

New England Power Company

Shading denotes an input	
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Line No.		(1) Total (g)	Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference for Col (1)
1 2	Depreciation Expense Transmission Depreciation General Depreciation	\$34,416,139 \$361,782	99.8099% (a)	\$34,416,139 \$361,094	51.4205% 51.4205%	\$17,696,951 \$185,676	FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
3	Total (line 1+2)	\$301,70Z	99.0099 % (a)	\$34,777,233	51.420576	\$17,882,627	T LIKE FORM F Age 350.100
4	Amortization of Loss on Reacquired Debt	\$278,121		\$278,121	51.4205%	\$143,011	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$394,835)		(\$394,835)	51.4205%	(\$203,026)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$27,171,454		\$27,171,454	51.4205%	\$13,971,698	FERC Form 1 Page 263.10,17,23,28,31i - Footnote (e)
7 8 9 10 11	Transmission Operation and Maintenance Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) * Station Expenses & Rents - #562 & #567 O&M less lines 8, 9 & 10	\$61,295,709 \$14,532,110 \$11,891,943 \$0 \$34,871,656		\$61,295,709 \$14,532,110 \$11,891,943 \$34,871,656	51.4205% 51.4205% 51.4205% 51.4205%	\$31,518,560 \$7,472,484 \$6,114,897 \$0 \$17,931,179	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15	Transmission Administrative and General Total Administrative and General Less: Properly Insurance (#924) Less: Regulatory Commission Expenses (#928) Less: General Advertising Expense (#930.1)	\$30,296,960 (\$135,569) \$4,168,438 \$0					FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b
16 17 18 19 20 21	Subtotal [line 12 minus (13 thru 15)] Plus: Property Insurance Allocated using Plant Allocatior Plus: Regulatory Commission Expense Plus: Specifically identified Trans. Related General Advertising Expense Plus: Specifically identified Trans. Related Regulatory Expense Total A&G [line 16 + (17 thru 20)]	\$26,264,091 (\$135,569) \$2,605,606 \$0 \$0 \$28,734,128	99.8099% (a) 99.2997% (c) 99.2997% (c)	\$26,214,163 (\$134,620) \$2,587,359 \$0 \$0 \$28,666,902	51.4205% 51.4205% 51.4205% 51.4205% 51.4205%	\$13,479,454 (\$69,222) \$1,330,433 \$0 \$0 \$14,740,665	Line 13 Attachment 5 Line 6 Line 15 FERC Form 1 Page 350.18c
22	Payroll Tax Expense	\$2,271,348	99.8099% (a)	\$2,267,030	51.4205%	\$1,165,718	FERC Form 1 Page 263.3,4i - Footnote (d)
(d) (d) Payroll taxes FERC Form 1, page 263.i		(e)	Property Taxes F	F1, Page 263i		
	Federal Unemployment FICA Payroll Taxes State Unemployment Total	\$9,327 \$2,262,021 \$0 \$0 \$2,271,348		Massachusetts New Hampshire Vermont Maine Rhode Island Connecticut	\$23,571,202 \$2,662,307 \$786,615 \$0 \$151,330 \$0 \$27,171,454		

(a) Worksheet 7, Line 11

(b) Worksheet 7 Line 3

(c) Worksheet 7 Line 16

(d) Transmission Only - Payroll Taxes - Specifically identified in FERC From 1
 (e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
 (f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Shading denotes an input

Line No.

Source
Reference

-			
	PTF Transmission Plant Allocation Factor	NEP	
1	PTF Transmission Investment	\$819,449,952	Attachment 1, Page 1
2	Total Transmission Investment	\$1,593,625,753	FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	51.4205%	
	Transmission Wages and Salaries Allocation Factor		
4	Direct Transmission Wages and Salaries	\$0	FERC Form 1 Page 354.14b
5	Affiliated Company Transmission Wages and Salaries	\$23,467,616	General Ledger Query
6	Total Transmission Wages and Salaries (Line 4 + Line 5)	\$23,467,616	c
7	Total Wages and Salaries	\$0	FERC Form 1 Page 354.28b
8	Administrative and General Wages and Salaries	\$0	FERC Form 1 Page 354.27b
9	Affiliated Company Wages and Salaries less A&G	\$23,512,307	General Ledger Query
10	Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$23,512,307	
11	Percent Allocation (Line 6/Line 10)	99.8099%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,593,625,753	Line 2
13	plus Transmission-Related General Plant (Line 2 of Wkst. 3)	\$6,384,326	Worksheet 5, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,600,010,079	
15	Total Plant in Service	\$1,611,293,575	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2997%	
	Post-2003 PTF Allocation Factor		
17	Total Post-2003 PTF Investment	\$ 213,375,099	Attachment 1 Line 7
18	Total Transmission Investment	\$1,593,625,753	Line 2
19	Percent Allocation (Line 17/Line 18) for Post-2003 to Total Tx	13.3893%	
20	Total Invst in Tx Plant/Total Plant in Serv *		
21	Post-2003 PTF Tx Plant/Total Invst in Tx Plant	13.2955%	Line 19 * Line 16

New England Power Company Post-96 RNs Revenue Requirments For Test Year Ended 12/31/2011

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

		Ī	TOTA	\L
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses
			(a)	(b)
NSTAR	115 kV Millbury-Medway 201 Line	Pg 332 Line 2 Col (g)		
	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		
	345 kV "stabilizer" 342 Line	Pg 332 Line 3 Col (g)		
	345 kV Carver - Walpole 331 Line	Pg 332 Line 13 Col (g)		
	Second Canal Line	Pg 332 Line 4 Col (g)		
	Bell Rock Road	Page 330.5 Line 12	\$0	
	Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV Tewksbury- Woburn 338 Line]	Page 330 Line 4	\$0	
	Boston-Edison [115 kV Tewksbury - Woburn M139 line - 115kV Tewksbury-Woburn N140 Line]	Page 330 Line 3	\$0	
	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5	\$0	
	Boston Edison -345 kV Golden Hills-Mystic 349 Line	Page 330 Line 2	\$0	
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrook	Page 330.1 Line 8	\$0	
EUA	345 kV Medway - Bridgewater 344 Line	Pg 330.5, Line 11	\$0	
NEP	Chester SVC	Transmission Billing		
	HQ Phase II - AC in MA	Page 330 Line 11	\$0	
	MWRA Transmission (MDC)	Contract - Line Lease/Use		
T Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12	\$0	
		Totals	\$0	

New England Power Company 2011 Informational Filing PTF Plant Allocation

Percent Pre/Post

1	2010	Pre-1997 PTF Transmission Plant	\$351,115,800	
2	2010	Post-1996 PTF Transmission Plant	<mark>\$755,657,102</mark>	
3	2011	Additions/Retirements	\$62,011,432	
4	2011	Pre-1997 PTF Transmission Plant	\$349,334,382	29.89%
5	2011	Post-1996 PTF Transmission Plant	\$819,449,952	70.11%
6	2011	Total PTF Transmission Plant	\$1,168,784,335	100.00%
7	2011	Post-2003 PTF Transmission Plant	\$213,375,099	

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5
- 7 PTF Plant Report: Post 2003 RSP Projects

GROSS PLANT ASSOC. WITH HVDC LEASES 2011

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	<mark>\$0</mark>
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	0 0 0%
5	Total Gross Plant leased by NHH (a)	\$0
6	Total Land from Sandy Pond to New Hampshire	<mark>\$0</mark>
7	HVDC lines occupy 35% of Right of Way	0%
8	Total Land leased by NEH (a)	\$0
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$0

Source:

- 1 FERC Form 1, Page 423.1, Lines 5 + 16
- 2 Total miles used per lease agreement
- 3 Total miles per lease agreement
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2011</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,138,245
2	Less: Specifically identified Transmission-Related	
2	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission Only 1990 - 1999	\$9,713
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	2010 Transmission	\$79,948
	2011 Transmission	\$157,814
		\$750,783
3	Total unidentified Book Depreciation on Equity AFUDC	\$387,462
4	Plant Allocator Factor	99.2997%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,749
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$750,783</u>
7	Total Transmission-Related Equity AFUDC	\$1,135,532
8	Post-96 PTF Allocation Factor	51.4205%
9	Transmission-Related Equity AFUDC	\$583,896

- Sources: 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - Worksheet 5 PTF Plant Allocation Factor 4
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - Worksheet 6 Post-96 PTF Allocation Factor 8
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2011</u>	MECO <u>2011</u>
1	Total Integrated Facilities Charges	\$0	\$0
2	Total 2011 PTF Property	\$0	\$0
3	Total Transmission Plant in 2011	\$0	\$0
4	NECO or MECO PTF Plant Allocator	0.00%	0.00%
5	PTF Related Integrated Facilities Charge	\$0	\$0
6	Total Integrated Facilities	=	\$0

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2011 Regulatory Commission Expense

Line <u>No.</u>		<u>2011</u>	Source
1	Total Regulatory Commission Expense - NEP	\$4,168,438	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$78,276	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$229,133	FERC Form1 Page 350.8d
5	Less: Utility Expenses	\$1,255,423	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,605,606	Line 1 - (Line 2-5)

Attachment 6

Transmission Rents Received from Electric Property New England Power Company

	<u>2011</u>
Revenues	\$1,213,781
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,213,781
PTF Allocation	51.4205%
Total PTF Revenue	\$624,132

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Attachment 7

Revenue for Short-Term Transmission Service under the NEPOOL Tariff New England Power Company

	<u>2011</u>
Revenues	\$809,392
Post-96 PTF Percent	70.1113%
Total Post-96 PTF Revenue	\$567,475

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Shading denotes an input

Submitted on:				
Revenue Requirements for (year):		Calend	dar Year 2011	
Rates Effective for the Period: Through:			une 2012 lay 2013	
Customer:	New England P	<mark>ower Compa</mark>	ny	L
Customer's NABs Number:	<u> </u>			
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:	<u> </u>			
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$101,550,462	(a)	\$131,389,736	(f)
Total of Attachment F - Section J - Support Revenue	\$5,663,545	(b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$723,254	(c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$507,986)	(d)	(\$1,191,607)	(i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$96,102,185	(e)=(a)-(b)+(c)+(d)	\$130,198,129	(j)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A		\$37,048,823	_(k)
Annual True-up (per Attachment C to Attacment F Im[plementation Rule)	N/A	()	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$96,102,185	(n)=(e) + (l)	\$167,246,952	(0)=(j)+(
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement	ents		• • • • • • •	

and Post-96 Revenue Requirements Subtotals for rate calculations under the Tariff:

\$263,349,137 (p) = (n) + (o)

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2011

PRE-1997

	Chading denotes on input	TRE-1337		
	Shading denotes an input			
		Attachment F		
	I. INVESTMENT BASE	Reference	NEP	Reference
Line No.		Section:		
1	Transmission Plant	(A)(1)(a)	\$336,247,655	Worksheet 3, line 1&2 column 5
2	General Plant	(A)(1)(b)	\$1,399,489	Worksheet 3, line 3 column 5
3	Plant Held For Future Use	(A)(1)(c)	\$225,295	Worksheet 3, line 5 column 5
4	Total Plant (Lines 1+2+3)		\$337,872,439	
5	Accumulated Depreciation	(A)(1)(d)	(\$77,488,640)	Worksheet 3, line 8 column 5
6	Accumulated Deferred Income Taxes	(A)(1)(e)	(\$76,355,405)	Worksheet 3, line 11 column 5
7	Loss On Reacquired Debt	(A)(1)(f)	\$91,898	Worksheet 3, line 12 column 5
8	Other Regulatory Assets	(A)(1)(g)	\$9,354,618	Worksheet 3, line 16 column 5
9	Net Investment (Line 4+5+6+7+8)	()()(3)	\$193,474,910	
-			••••••	
10	Prepayments	(A)(1)(h)	\$30,363	Worksheet 3, line 17 column 5
10	Materials & Supplies	(A)(1)(i)	\$838,599	Worksheet 3, line 18 column 5
12	Cash Working Capital	(A)(1)(j)	\$1,741,012	Worksheet 3, line 25 column 5
12	Cash Working Capital	(//)(//)	ψ1,741,012	WorkSheet 5, Inte 25 column 5
13	Total Investment Base (Line 9+10+11+12)		\$196,084,884	
	· · · · · · · · · · · · · · · · · · ·			
	II. <u>REVENUE REQUIREMENTS</u>			
14	Investment Return and Income Taxes	(A)	\$25,014,431	Worksheet 2
15	Depreciation Expense	(B)	\$7,623,413	Worksheet 4, line 3, column 5
16	Amortization of Loss on Reacquired Debt	(C)	\$60,966	Worksheet 4, line 4, column 5
17	Investment Tax Credit	(D)	(\$86,551)	Worksheet 4, line 5, column 5
18	Property Tax Expense	(E)	\$5,956,173	Worksheet 4, line 6, column 5
19	Payroll Tax Expense	(F)	\$496,949	Worksheet 4, line 22, column 5
20	Operation & Maintenance Expense	(G)	\$7,644,111	Worksheet 4, line 11, column 5
21	Administrative & General Expense	(U) (H)	\$6,283,985	Worksheet 4, line 21, column 5
22	Transmission Related Integrated Facilities Charge	• •	\$48,556,985	Attachment 4, line 6
22	Transmission Related megrated racinities Charge	(I) (J)	(\$5,663,545)	Worksheet 6
23 24	Transmission Support Expense	(5) (K)	\$723,254	Worksheet 6
25	Transmission Related Expense from Generators	(L)	\$0 \$0	Worksheet 7
26	Transmission Related Taxes and Fees Charge	(M)	\$0	Attack
27	Revenue for ST Trans. Service Under NEPOOL Tarifi	()	(\$241,917)	Attachment 7
28	Transmission Rents Received from Electric Property	(O)	(\$266,069)	Attachment 6

\$96,102,185

29 Total Revenue Requirements (Line 14 thru 28)

New England Power Company Annual Revenue Requirements For Costs in 2011

			PF	ONG-TERM DEBT REFERRED STOCK COMMON EQUITY STMENT RETURN	CAPITALIZATION 12/31/2011 \$410,350,000 \$1,111,700 \$746,206,523 \$1,157,668,223	C/	APITALIZATION RATIOS 35.45% 0.10% 64.46% 100.00%	COST OF CAPITAL 1.18% 6.02% 11.64%	COST OF CAPITAL	EQUITY PORTION 0.01% 7.50% 7.51%
Cost of Capital Rate=										
(a) Weighted Cost of Capital	=	0.0793								
(b) Federal Income Tax	= (R.O.E. + (PTF Inv. (Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x -	Federal Income Tax Federal Income Tax			
	= (<u>0.0751 +(</u>	(\$86,551) +	\$248,755) /	\$196,084,884)	x	0.35 0.35)		
	=	0.0408839	PTF Inv.	Eq. AFUDC						
(c) State Income Tax	= (R.O.E. + ((Tax Credit +	of Deprec. Exp.) /	PTF Inv. Base)	+	Federal Income Ta State Income Tax R		State Income Tax R	ate
	= (<u>0.0751 +(</u>	(\$86,551) +	\$248,755)/	\$196,084,884)	+	0.0408839 0.059466);)	0.059	466
	=	0.0073855								
(a)+(b)+(c) Cost of Capital Rate	=	0.1275694								
		(PTF)								
INVESTMENT BASE			From Worksheet 1							
x Cost of Capital Rate		0.1275694	To Workshoot 1							
= Investment Return and Income Taxes		əzə,u14,431	To Worksheet 1							

New England Power Company

			New England Powe	er Company			
	Shading denotes an input						
Line No.		(1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference
1	Transmission Plant					\$349,334,382	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases					(\$13,086,728)	Attachment 2
3	General Plant	\$6,396,486	99.8099% (a)	\$6,384,326	21.9207% (b)	\$1,399,489	FERC Form 1 Page 207.99g
4	Total (line 1+2+ 3)		-	\$6,384,326	-	\$337,647,144	
5	Transmission Plant Held for Future Use	\$1,027,771		\$1,027,771	21.9207% (b)	\$225,295	FERC Form 1 Page 214.2,4,9
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	(\$348,750,683)		(\$348,750,683)	21.9207% (b)	(\$76,448,591)	FERC Form 1 Page 219.25
7	General Plant Accumulated Depreciation	(\$4,753,633)	99.8099% (a)	(\$4,744,596)	21.9207% (b)		FERC Form 1 Page 219.28
8	Total (line 6+ 7)		=	(\$353,495,279)	=	(\$77,488,640)	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	(\$402,325,609)	99.2997% (c)	(\$399,508,123)	21.9207% (b)	(\$87,574,977)	FERC Form 1 Page 113.62-64
10	Accumulated Deferred Taxes (190)	\$51,543,505		\$51,182,546	21.9207% (b)		FERC Form 1 Page 111.82
11	Total (line 9+ 10)		=	(\$348,325,577)	=	(\$76,355,405)	
12	Transmission Loss on Reacquired Debt	\$419,230	100.0000%	\$419,230	21.9207% (b)	\$91,898	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$0	99.8099% (a)	\$0	21.9207% (b)	\$0	
14	FAS 109 (Asset Account 182.3)	\$42,674,813	100.0000%	\$42,674,813	21.9207% (b)	\$9,354,618	FERC Form 1 Page 232.7f
15	FAS 109 (Liability Account 254)	\$0	100.0000%	\$0	21.9207% (b)	\$0	FERC Form 1 Page 278
16	Total (line 13+14+ 15)	\$42,674,813	=	\$42,674,813	=	\$9,354,618	
17	Transmission Prepayments	\$138,779	99.8099% (a)	\$138,515	21.9207% (b)	\$30,363	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$3,825,605		\$3,825,605	21.9207% (b)	\$838,599	FERC Form 1 Page 227.8c
19 20 21 22 23	Cash Working Capital Operation & Maintenance Expense Administrative & General Expense Transmission Support Expense Subtotal (line 20+21+22)				-	\$7,644,111 \$6,283,985 \$0 \$13,928,096	Worksheet 1, Line 20 Worksheet 1, Line 21 Worksheet 6
24 25	Total (line 23 * line 24)				-	0.1250 \$1,741,012	x 45 / 360

(a) Worksheet 5 Line 11(b) Worksheet 5 Line 3(c) Worksheet 5 Line 16

PTF Revenue Requirements Worksheet 4 of 6

	A U U U U U		New England	Tower Company			
	Shading denotes an input		(2) Wage/Plant	(3) = (1)*(2)	(4) PTF	(5) = (3)*(4)	
Line No.		(1) Total	Allocation	(3) = (1) (2) Transmission Allocated	Allocation Factor (b)	(5) = (3) (4) PTF Allocated	Source Reference for Col (1)
1 2 3	Depreciation Expense Transmission Depreciation General Depreciation	\$34,416,139 \$361,782	99.8099% (a) _	\$34,416,139 <u>\$361,094</u> \$34,777,233	21.9207% (b) 21.9207% (b)	\$7,544,259 <u>\$79,154</u> \$7,623,413	FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
4	Amortization of Loss on Reacquired Debt	\$278,121	100.0000%	\$278,121	21.9207% (b) _	\$60,966	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$394,836)	100.0000%	(\$394,836)	21.9207% (b)	(\$86,551)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$27,171,454	100.0000%	\$27,171,454	21.9207% (b)	\$5,956,173	FERC Form 1 Page 263.10,17,23,28i - Footnote (e)
7 8 9 10 11	Transmission Operation and Maintenance Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) **Station Expenses & Rents - #562 / #567 O&M less lines 8, 9 & 10	\$61,295,709 \$14,532,110 \$11,891,943 \$0 \$34,871,656	-	\$61,295,709 \$14,532,110 \$11,891,943 \$34,871,656	21.9207% (b) 21.9207% (b) 21.9207% (b) 21.9207% (b)	\$13,436,448 \$3,185,540 \$2,606,797 \$0 \$7,644,111	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15 16 17	Transmission Administrative and General Total Administrative and General Less: Properly Insurance (#924) Less: General Advertising Expense (#928) Less: General Advertising Expense (#930 1) Subtotal [line 12 minus (13 thru 15)] Plus: Properly Insurance Allocative using Plant Allocator	\$30,296,960 (\$135,569) \$4,168,438 \$0 \$26,264,091 (\$135,569)	99.8099% (a) 99.2997% (c)	\$26,214,163 (\$134,620)	21.9207% (b) 21.9207% (b)	\$5,746,328 (\$29,510)	FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b Line 13
18 19 20 21	Plus: Propulsity Commission Expersion Plus: Regulary Commission Expersion Plus: Specifically Identified Trans. Related Cenaral Advertising Expense Plus: Specifically Identified Trans. Related Regulatory Expense Total AASC [line 16 + (17 thru 20)]	\$2,605,606 \$0 \$28,734,128	99.2997% (C) 99.2997% (C)	\$2,587,359 \$0 \$28,666,902	21.9207% (b) 21.9207% (b) 21.9207% (b) 21.9207% (b)	\$567,167 \$0 \$6,283,985	Attachment 5 Line 6 Line 15 FERC Form 1 Page 350.18c
22	Payroll Tax Expense	\$2,271,348	99.8099% (a)	\$2,267,030	21.9207% (b)	\$496,949	FERC Form 1 Page 263.3,4i - Footnote (d)
(d) Payroll taxes FERC Form 1, page 263.i		(e)	Property Taxes F	F1, Page 263i		
	Federal Unemployment FICA Payroll Taxes State Unemployment Total	\$9,327 \$2,262,021 \$0 \$2,271,348		Massachusetts New Hampshire Vermont Maine Rhode Island Connecticut	\$23,571,202 \$2,662,307 \$786,615 \$0 \$151,330 <u>\$0</u> \$27,171,454		

New England Power Company

(a) Worksheet 5 Line 11
(b) Worksheet 5 Line 3
(c) Worksheet 5 Line 16
(d) Transmission Only - Payroll Taxes - Specifically identified in FERC From 1
(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1 2	PTF Transmission Investment	\$349,334,382 \$1,593,625,753	Attachment 1, Page 1 FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	21.9207%	
	Transmission Wages and Salaries Allocation Factor		
4	Direct Transmission Wages and Salaries	\$0	FERC Form 1 Page 354.14b
5	Affiliated Company Transmission Wages and Salaries	\$23,467,616	General Ledger Query
6	Total Transmission Wages and Salaries (Line 4 + Line 5)	\$23,467,616	
7	Total Wages and Salaries	\$0	FERC Form 1 Page 354.28b
8	Administrative and General Wages and Salaries	\$0	FERC Form 1 Page 354.27b
9	Affiliated Company Wages and Salaries less A&G	\$23,512,307	General Ledger Query
10	Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$23,512,307	
11	Percent Allocation (Line 6/Line 10)	99.8099%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,593,625,753	Line 2
13	plus Transmission-Related General Plant	\$6,384,326	Worksheet 3, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,600,010,079	
15	Total Plant in Service	\$1,611,293,575	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2997%	

New England Power Company Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2011

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			TOTA	L
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses
			(a)	(b)
NSTAR	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$102,578
	345 kV "stabilizer" 342 Line	Pg 332 Line 3 Col (g)		(446)
	345 kV Switch Tap Bridge - Station 451 Whitman	Pg 332 Line 13 Col (g)		\$774
	Bell Rock Road	Page 330.5 Line 12 Col (n)	\$38,953	
	Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV Tewksbury- Woburn 338 Line]	Page 330 Line 4 Col (n)	\$61,463	
	Boston-Edison [115 kV Tewksbury - Woburn M139 line - 115kV Tewksbury-Woburn N140 Line]	Page 330 Line 3 Col (n)	\$11,594	
	Boston Edison -345 kV Golden Hills-Mystic 349 Line	Page 330 Line 2 Col (n)	\$47,313	
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrook	Page 330.1 Line 8 Col (n)	\$423,318	
NU	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5 Col (n)	\$13,319	
NEP	Chester SVC	Transmission Billing		\$620,348
	HQ Phase II - AC in MA	Page 330 Line 11 Col (n)	\$5,027,675	
VT Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12 Col (n)	\$39,910	
		Totals	\$5,663,545	\$723,254

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 22, Column 5)

\$0

New England Power Company 2011 Informational Filing PTF Plant Allocation

				Percent Pre/Post
1	2010	Pre-1997 PTF Transmission Plant	\$351,352,992	
2	2010	Post-1996 PTF Transmission Plant	\$725,670,117	
3	2011	Additions/Retirements	\$91,761,225	
4	2011	Pre-1997 PTF Transmission Plant	<mark>\$349,334,382</mark>	29.89%
5	2011	Post-1996 PTF Transmission Plant	<mark>\$819,449,952</mark>	70.11%
6	2011	Total PTF Transmission Plant	\$1,168,784,335	100.00%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5

GROSS PLANT ASSOC. WITH HVDC LEASES 2011

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$14,269,187
2 3 4	<u>Allocation</u> Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	224 253 89%
5	Total Gross Plant leased by NHH (a)	\$12,699,576
6	Total Land from Sandy Pond to New Hampshire	\$1,106,146
7	HVDC lines occupy 35% of Right of Way	35%
8	Total Land leased by NEH (a)	\$387,151
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$13,086,728
<u>Sourc</u>	<u>:e:</u>	
1	FERC Form 1, Page 422.1-423.1, Lines 5 + 16 col (I)	
2 3	Total miles used per lease agreement FERC Form 1, Page 422.1 Lines 5 + 16 col (f)	
4	Line 2 / Line 3	

- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2011</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,137,510
2	Less: Specifically Identified Transmission-Related	
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission Only 1990 - 1999	\$9,713
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	2010 Transmission	\$79,948
	2011 Transmission	\$157,122
		\$750,091
3	Total Unidentified Book Depreciation on Equity AFUDC	\$387,419
4	Plant Allocator Factor	99.2997%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,706
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$750,091</u>
7	Total Transmission-Related Equity AFUDC	\$1,134,797
8	Pre-97 PTF Allocation Factor	21.9207%
9	Transmission-Related Equity AFUDC	\$248,755

Sources:

- 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 5 Pre-97 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		REVISED PTF		
		Narragansett	MECO	
		<u>2011</u>	<u>2011</u>	
1	Total Integrated Facilities Charges	\$60,868,519	\$8,564,781	
2	Total 2011 PTF Property	\$234,900,022	\$21,875,675	
3	Total Transmission Plant in 2011	\$321,180,057	\$46,378,064	
4	NECO or MECO PTF Plant Allocator	73.14%	47.17%	
5	PTF Related Integrated Facilities Charge	\$44,517,136	\$4,039,849	
6	Total Integrated Facilities	_	\$48,556,985	
		=		
<u>Sourc</u>	<u>e:</u>			

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2011 Regulatory Commission Expense

Line <u>No.</u>		<u>2011</u>	Source
1	Total Regulatory Commission Expense - NEP	\$4,168,438	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$78,276	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$229,133	FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$1,255,423</mark>	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,605,606	Line 1 - (Line 2-5)

Attachment 6

Transmission Rents Received from Electric Property New England Power Company

	<u>2011</u>
Revenues	<mark>\$1,213</mark> ,781
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,213,781
PTF Allocation	21.9207%
Total PTF Revenue	\$266,069

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2011</u>
Revenues	\$809,392
Pre-97 PTF Percent	29.8887%
Total Pre-97 PTF Revenue	\$ 241,917

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Submitted on:				
Revenue Requirements for (year):		Calenda	ar Year 2011	
Rates Effective for the Period: Through:		June 2012 May 2013		
Customer:	New England Powe	er Compar	ıy	
Customer's NABs Number:				
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:				_
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$100,395,777 (a)		\$128,354,111	(f)
Total of Attachment F - Section J - Support Revenue	\$5,663,545 (b)		\$0	(g)
Total of Attachment F - Section K - Support Expense	\$723,254 (c)		\$0	(h)
Total of Attachment F - Section (L through O)	(\$507,986) (d)		(\$1,191,607)	(i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$94,947,500 (e)=(a	(a)-(b)+(c)+(d)	\$127,162,504	(j)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A		\$36,193,039	(k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	N/A ()		N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$94,947,500 (n)=((e)+(l)	\$163,355,543	(0)=(j)
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest)			\$258,303,043	(p) = (r

New England Power Company **Annual Revenue Requirements of PTF Facilities** For Costs in 2011

POST-1996

	Sha	iding denotes an input			
	I.	INVESTMENT BASE	Attachment F Reference	NEP	Reference
Line No.	1.	INVESTMENT BASE	Section:	NEF	Kelefelice
1		Transmission Plant	(A)(1)(a)	\$819,449,952	Worksheet 5, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$3,282,852	Worksheet 5, line 3 column 5
3		Plant Held For Future Use	(A)(1)(c)	\$528,485	Worksheet 5, line 5 column 5
4		Total Plant (Lines 1+2+3)		\$823,261,289	
5		Accumulated Depreciation	(A)(1)(d)	(\$181,769,040)	Worksheet 5, line 8 column 5
6		Accumulated Deferred Income Taxes	(A)(1)(e)	(\$179,110,753)	Worksheet 5, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(f)	\$215,570	Worksheet 5, line 12 column 5
8		Other Regulatory Assets	(A)(1)(g)	\$21,943,602	Worksheet 5, line 16 column 5
9		Net Investment (Line 4+5+6+7+8)		\$484,540,668	
10		Prepayments	(A)(1)(h)	\$71,225	Worksheet 5, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$1,967,145	Worksheet 5, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$4,083,981	Worksheet 5, line 25 column 5
13		NEEWS CWIP	(A)(1)(k)	\$10,910,787	Worksheet 5, line 26 column 5
14		Total Investment Base (Line 9+10+11+12+13)		\$501,573,805	
	١١.	REVENUE REQUIREMENTS			
15		Investment Return and Income Taxes	(A)	\$62,722,239	Worksheet 3
16		Depreciation Expense	(B)	\$17,882,627	Worksheet 6, line 3, column 5
17		Amortization of Loss on Reacquired Debt	(C)	\$143,011	Worksheet 6, line 4, column 5
18		Investment Tax Credit	(D)	(\$203,026)	Worksheet 6, line 5, column 5
19		Property Tax Expense	(E)	\$13,971,698	Worksheet 6, line 6, column 5
20		Payroll Tax Expense	(F)	\$1,165,718	Worksheet 6, line 22, column 5
21		Operation & Maintenance Expense	(G)	\$17,931,179	Worksheet 6, line 11, column 5
22		Administrative & General Expense	(H)	\$14,740,665	Worksheet 6, line 21, column 5
23		Transmission Related Integrated Facilities Charge	(1)	\$0 \$0	Attachment 4, line 6
24		Transmission Support Revenue	(J)	\$0 \$0	Worksheet 8
25		Transmission Support Expense	(K)	\$0 \$0	Worksheet 8
26		Transmission Related Expense from Generators	(L)	\$0 \$0	
27		Transmission Related Taxes and Fees Charge	(M)	* -	Attackment 7
28 29		Revenue for ST Trans. Service Under NEPOOL Tariff	(N) (O)	(\$567,475)	Attachment 7 Attachment 6
29		Transmission Rents Received from Electric Property	(O)	(\$624,132)	Allacimento
30		Total Revenue Requirements (Line 14 thru 28)		\$127,162,504	

New England Power Company Post 1996 Regional Network Service Revenue Requirement For Test Year Ended 12/31/2011

Line No. 1 2 3	Description Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA) Forecasted Revenue Requirements for Forecasted Transmission CWIP Forecasted Transmission Revenue Requirements	Attachment F Reference	Forecasted Amount \$ \$ 36,307,741 \$114,702 \$ 36,193,039	Reference Line 6 Line 9 Line 1 + Line 2
4 5 6	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA) Carrying Charge Factor (CCF) <i>Forecasted Revenue Requirements for FTPA</i>	Appendix C iv Appendix C vi	\$237,573,000 15.28277% \$36,307,741	Project Detail Line 20 Line 4 * Line 5
7 8 9	Forecasted New England Power Company (NEP) NEEWS CWIP (FNCWIP) NEEWS NEP Cost of Capital Rate (NCOC) Forecasted Revenue Requirements for FNCWIP	Appendix C xiii Appendix C xiv	\$ (851,389) 13.47235% \$ (114,702)	Project Detail Workpaper 4 Line 7 * Line 8
	Derivation of Carrying Charge (CCF)			
10	Investment Return and Income Taxes	(A)	\$59,602,800	Summary, Line 14
11	Depreciation Expense	(B)	17,882,627	Summary, Line 15
12	Amortization of Loss on Reacquired Debt	(C)	143,011	Summary, Line 16
13	Investment Tax Credit	(D)	(203,026)	Summary, Line 17
14	Property Tax Expense	(E)	13,971,698	Summary, Line 18
15	Payroll Tax Expense	(F)	1,165,718	Summary, Line 19
16	Operation & Maintenance Expense	(G)	17,931,179	Summary, Line 20
17	Administrative & General Expense	(H)	14,740,665	Summary, Line 21
18	Total Expenses (Lines 10 thru 17)		\$125,234,672	.
19	PTF Transmission Plant	(A)(1)(a)	\$819,449,952	Summary, Line 1
20	Carrying Charge Factor (FTPA)		15.28277%	Line 18 / Line 19

New England Power Company Annual Revenue Requirements For Costs in 2011

					CAPITALIZATION		TALIZATION	COST OF	COST OF	EQUITY
			LONG-TERM		12/31/2011 \$410,350,000	F	35.45%	CAPITAL 1.18%	CAPITAL 0.42%	PORTION
			PREFERRED S COMMON E	STOCK	\$1,111,700 \$746,206,523		0.10% 64.45%	6.02% 11.07%	0.42% 0.01% 7.13%	0.01% 7.13%
		тот	TAL INVESTMENT RE		\$1,157,668,223		100.00%		7.56%	7.14%
Cost of Capital Rate=										
(a) Weighted Cost of Capital =	0.0756									
(b) Federal Income Tax = (R.O.E. +	PTF Inv. ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x	Federal Income Ta	ax Rate)		
- (0.0714	+((\$203,026) +	¢5	83,896)/	\$501,573,805)	- X	Federal Income Ta	x Rate)		
- ((1	r((\$203,020) +	φU	03,090) /	4301,373,803 J	-	0.35)		
=	0.0388550									
(c) State Income Tax = (R.O.E. +	PTF Inv. ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	+	Federal Income		State Income Tax	Rate
,	(1	((2000.000) -		00.000 \ /	6504 570 005 V	-	State Income Tax	Rate)	0.055	100
= ((1	+((\$203,026) +	¢¢	83,896)/	\$501,573,805)	+	0.0388550)	0.059	400
=	0.0070190									
(a)+(b)+(c) Cost of Capital Rate =	0.1214740									
	(PTF)									
INVESTMENT BASE	\$501,573,805	From Worksheet 1								
x Cost of Capital Rate	0.1214740									
= Investment Return and Income Taxes	\$60,928,176	To Worksheet 1								
INVESTMENT BASE (Excluding NEEWS CWIP)	\$490,663,019	From Worksheet 1								
x Cost of Capital Rate	0.1214740									
= Investment Return and Income Taxes	\$59,602,800	To Worksheet 2								
Post 2003 PTF Investment Base w/ Incremental 100 bps: Plant In-Service	\$ 213,375,099	From Attachment 1								
Accumulated Depreciation Accumulate Deferred Income Taxes	(46,695,224) (46,311,697)	From Worksheets 5 & 7 From Worksheets 5 & 7								
Total Post-2003 Investment Incremental ROE: 1.00	\$ 120,368,177 % 0.00645	Calculated								
Federal Income Taxes: State Income Taxes:	0.00845	Per Attachment F Per Attachment F								
Cost of Capital Rate Incremental Return and Taxes on Post-2003 PTF Investment	0.01054	r er Attaciment T								
	<u> </u>									
NEEWS In-Service w/ Incremental 125 bps: New England Power NEEWS In-Service	\$ 52,962,648	PowerPlant PTF 4 & 5 reports	s - PTF only							
Accumulated Depreciation Accumulate Deferred Income Taxes	(12,062,457) (11,963,383)	From Worksheets 3 & 5 From Worksheets 3 & 5								
Total New England Power NEEWS Investment	\$ 28,936,808	Calculated								
Incremental ROE: 1.25 Federal Income Taxes:	0.00434	Calculated Per Attachment F								
State Income Taxes: Cost of Capital Rate Incremental Return and Taxes on NEEWS PTF Investment	0.00078 0.01318	Per Attachment F								
moremental Return and Taxes on NEEWS PTF Investment	\$ 381,325									
NEEWS Allocation Factor										
Total Transmission Investment Total NEEWS In-Service - NEP	\$1,593,625,753 \$55,119,725	Worksheet 7 Line 2 Plant Accounting Records								
For Accumulated Depreciation	3.4588%									
NEEWS Allocation Factor Plant Allocation Factor For Accumulated Deferred Income Taxes	3.4588% 0.992997 3.4345%	Worksheet 7 Line 16								
	5.757370									

New England Power Company Annual Revenue Requirements For Costs in 2011

		LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY TOTAL INVESTMENT RETURN	CAPITALIZATION 12/31/2011 \$410,350,000 \$1,111,700 \$746,206,623 \$1,157,668,223	CAPITALIZATION RATIOS COST OF CAPITAL 35.45% 1.18% 0.10% 6.02% 64.46% 12.32%	COST OF CAPITAL EQUITY PORTION 0.42% 0.01% 0.01% 0.01% 7.94% 7.94% 8.37% 7.95%
Cost of Capital Rate=					
(a) Weighted Cost of Capital	= 0.0837				
(b) Federal Income Tax	= (Eq. AFUDC of Deprec. Exp.) /		x Federal Income Tax Rate) - Federal Income Tax Rate)	
	= (0.0795 +((\$203,026) +	\$583,896) /	,	x 0.35)	
	=0.0432166_			0.00 (
(c) State Income Tax	PTF Inv. = (R.O.E. + ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	+ Federal Income Tax)	* State Income Tax Rate
(c) State income rax	= (<u>R.O.E. + (Tax Credit +</u> (<u>1</u>	or Deprec. Exp.) /		+ Federal Income Tax) - State Income Tax Rate)	State Income Tax Rate
	= (0.0795 +((\$203,026) +	\$583,896) /	\$501,573,805)	+ 0.0432166)	* 0.059466
	(1	,		- 0.059466)	
	= 0.0078069				
(a)+(b)+(c) Cost of Capital Rate	= 0.1347235				

PTF Revenue Requirements Worksheet 5 of 8

Shading denotes an input

	Shading denotes an input						
Line No.		(1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference for Col (1)
1	Transmission Plant					\$819,449,952	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases					\$0	Attachment 2
3	General Plant	\$6,396,486	99.8099% (a)		51.4205% (b)	\$3,282,852	FERC Form 1 page 207.99
4	Total (line 1+2+ 3)			\$6,384,326	=	\$822,732,804	
5	Transmission Plant Held for Future Use	\$1,027,771		\$1,027,771	51.4205% (b)	\$528,485	FERC Form 1 page 214.2,4,10
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	(\$348,750,683)		(\$348,750,683)	51.4205% (b)	(\$179,329,345)	FERC Form 1 page 219.25
7	General Plant Accumulated Depreciation	(\$4,753,633)	99.8099% (a)	(\$4,744,596)	51.4205% (b)	(\$2,439,695)	FERC Form 1 Page 219.28
8	Total (line 6+ 7)			(\$353,495,279)	=	(\$181,769,040)	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	(\$402,325,609)	99.2997% (c)	(\$399,508,123)	51.4205% (b)	(\$205,429,074)	FERC Form 1 page 113.62-64
10	Accumulated Deferred Taxes (190)	\$51,543,505	99.2997% (c)	\$51,182,546	51.4205% (b)	\$26,318,321	FERC Form 1 page 111.82
11	Total (line 9+ 10)			(\$348,325,577)	=	(\$179,110,753)	
12	Transmission Loss on Reacquired Debt	\$419,230	100.0000%	\$419,230	51.4205% (b)_	\$215,570	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$0	99.8099% (a)	\$0	51.4205% (b)	\$0	
14	FAS 109 (Asset Account 182.3)	\$42,674,813	100.0000%	\$42,674,813	51.4205% (b)	\$21,943,602	FERC Form 1 Page 232.6f
15	FAS 109 (Liability Account 254)	\$0	100.0000%	\$0	51.4205% (b)	\$0	FERC Form 1 Page 278
16	Total (line 13+14+ 15)	\$42,674,813		\$42,674,813	-	\$21,943,602	
17	Transmission Prepayments	\$138,779	99.8099% (a)	\$138,515	51.4205% (b)	\$71,225	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$3,825,605		\$3,825,605	51.4205% (b)	\$1,967,145	FERC Form 1 Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$17,931,179	Worksheet 1, Line 20
21	Administrative & General Expense					\$14,740,665	Worksheet 1, Line 21
22	Transmission Support Expense				_	\$0	Worksheet 8
23	Subtotal (line 20+21+22)					\$32,671,844	
24					_	0.1250	x 45 / 360
25	Total (line 23 * line 24)				_	\$4,083,981	
26	NEEWS CWIP	\$10,910,787			=	\$10,910,787	Plant Accounting Records
	(-) Montale						

New England Power Company

(a) Worksheet 7 Line 11(b) Worksheet 7 Line 3(c) Worksheet 7 Line 16

PTF Revenue Requirements Worksheet 6 of 8

Shading denotes an input

New England Power Company

Line No.	Depreciation Expense Transmission Depreciation	(1) Total (g) \$34,416,139	Factors	(3) = (1)*(2) Transmission Allocated \$34,416,139	PTF Allocation Factor (b) 51.4205%	(5) = (3)*(4) PTF Allocated \$17,696,951	Source Reference for Col (1) FERC Form 1 Page 336.7b
2	General Depreciation Total (line 1+2)	\$361,782	99.8099% (a)	\$361,094 \$34,777,233	51.4205%	\$185,676 \$17,882,627	FERC Form 1 Page 336.10b
3	10tal (line 1+2)			<i>4</i> 34,777,233		\$17,882,027	
4	Amortization of Loss on Reacquired Debt	\$278,121		\$278,121	51.4205%	\$143,011	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$394,835)		(\$394,835)	51.4205%	(\$203,026)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$27,171,454	=	\$27,171,454	51.4205%	\$13,971,698	FERC Form 1 Page 263.10,17,23,28,31i - Footnote (e)
7	Transmission Operation and Maintenance Operation and Maintenance	\$61,295,709		\$61.295.709	51.4205%	\$31.518.560	FERC Form 1 Page 321.112b
8	Transmission of Electricity by Others - #565	\$14,532,110		\$14,532,110	51.4205%	\$7,472,484	FERC Form 1 Page 321.96b
9	Load Dispatching - #561 (excl #561.3)	\$11,891,943		\$11,891,943	51.4205%	\$6,114,897	FERC Form 1 Page 321.84-92b less 87b
10	** Station Expenses & Rents - #562 & #567	\$0		•••••		\$0	FERC Form 1 Page 321.93b & .98b
11	O&M less lines 8, 9 & 10	\$34,871,656	-	\$34,871,656	51.4205%	\$17,931,179	
	Transmission Administrative and General						
12	Total Administrative and General	\$30,296,960					FERC Form 1 Page 323.197b
13	Less: Property Insurance (#924)	(\$135,569)					FERC Form 1 Page 323.185b
14	Less: Regulatory Commission Expenses (#928)	\$4,168,438					FERC Form 1 Page 323.189b
15	Less: General Advertising Expense (#930.1)	\$0					FERC Form 1 Page 323.191b
16	Subtotal [line 12 minus (13 thru 15)]	\$26,264,091	99.8099% (a)	\$26,214,163	51.4205%	\$13,479,454	-
17	Plus: Property Insurance Allocated using Plant Allocation	(\$135,569)	99.2997% (c)	(\$134,620)	51.4205%	(\$69,222)	Line 13
18	Plus: Regulatory Commission Expense	\$2,605,606	99.2997% (c)	\$2,587,359	51.4205%	\$1,330,433	Attachment 5 Line 6
19	Plus: Specifically identifed Trans. Related General Advertising Expense	\$0		\$0	51.4205%	\$0	Line 15
20	Plus: Specifically identified Trans. Related Regulatory Expense	\$0		\$0	51.4205%	\$0	FERC Form 1 Page 350.18c
21	Total A&G [line 16 + (17 thru 20)]	\$28,734,128	=	\$28,666,902		\$14,740,665	
22	Payroll Tax Expense	\$2,271,348	99.8099% (a)	\$2,267,030	51.4205%	\$1,165,718	FERC Form 1 Page 263.3,4i - Footnote (d)
((d) (d) Payroll taxes FERC Form 1, page 263.i		(e) <u> </u>	Property Taxes F	F1, Page 263i		
	Federal Unemployment	\$9,327	1	Massachusetts	\$23,571,202		
	FICA	\$2,262,021	1	New Hampshire	\$2,662,307		
	Payroll Taxes	\$0		Vermont	\$786,615		
	State Unemployment	\$0	1	Maine	\$0		
	Total	\$2,271,348	I	Rhode Island	\$151,330		
			(Connecticut	\$0		
					\$27,171,454		

(a) Worksheet 7, Line 11
(b) Worksheet 7, Line 3
(c) Worksheet 7, Line 16
(d) Transmission Only - Payroll Taxes - Specifically identified in FERC From 1
(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1	PTF Transmission Investment	\$819,449,952	Attachment 1, Page 1
2	Total Transmission Investment	\$1,593,625,753	FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	51.4205%	
	Transmission Wages and Salaries Allocation Factor		
4	Direct Transmission Wages and Salaries	\$0	FERC Form 1 Page 354.14b
5	Affiliated Company Transmission Wages and Salaries	\$23,467,616	General Ledger Query
6	Total Transmission Wages and Salaries (Line 4 + Line 5)	\$23,467,616	
7	Total Wages and Salaries	\$0	FERC Form 1 Page 354.28b
8	Administrative and General Wages and Salaries	\$0	FERC Form 1 Page 354.27b
9	Affiliated Company Wages and Salaries less A&G	<u>\$23,512,307</u>	General Ledger Query
10	Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$23,512,307	
11	Percent Allocation (Line 6/Line 10)	99.8099%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,593,625,753	Line 2
13	plus Transmission-Related General Plant (Line 2 of Wkst. 3)	\$6,384,326	Worksheet 5, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,600,010,079	
15	Total Plant in Service	\$1,611,293,575	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2997%	
	Post-2003 PTF Allocation Factor		
17	Total Post-2003 PTF Investment	\$ 213,375,099	Attachment 1 Line 7
18	Total Transmission Investment	\$1,593,625,753	Line 2
19	Percent Allocation (Line 17/Line 18) for Post-2003 to Total Tx	13.3893%	
20	Total Invst in Tx Plant/Total Plant in Serv *		
21	Post-2003 PTF Tx Plant/Total Invst in Tx Plant	13.2955%	Line 19 * Line 16

New England Power Company Post-96 RNs Revenue Requirments For Test Year Ended 12/31/2011

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

		Ī	TOTAL		
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses	
			(a)	(b)	
NSTAR	115 kV Millbury-Medway 201 Line	Pg 332 Line 2 Col (g)			
	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)			
	345 kV "stabilizer" 342 Line	Pg 332 Line 3 Col (g)			
	345 kV Carver - Walpole 331 Line	Pg 332 Line 13 Col (g)			
	Second Canal Line	Pg 332 Line 4 Col (g)			
	Bell Rock Road	Page 330.5 Line 12	\$0		
	Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV Tewksbury- Woburn 338 Line]	Page 330 Line 4	\$0		
	Boston-Edison [115 kV Tewksbury - Woburn M139 line - 115kV Tewksbury-Woburn N140 Line]	Page 330 Line 3	\$0		
	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5	\$0		
	Boston Edison -345 kV Golden Hills-Mystic 349 Line	Page 330 Line 2	\$0		
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrook	Page 330.1 Line 8	\$0		
EUA	345 kV Medway - Bridgewater 344 Line	Pg 330.5, Line 11	\$0		
NEP	Chester SVC	Transmission Billing			
	HQ Phase II - AC in MA	Page 330 Line 11	\$0		
	MWRA Transmission (MDC)	Contract - Line Lease/Use			
T Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12	\$0		
		Totals	\$0		

New England Power Company 2011 Informational Filing PTF Plant Allocation

Percent	
Pre/Post	

1	2010	Pre-1997 PTF Transmission Plant	\$351,115,800	
2	2010	Post-1996 PTF Transmission Plant	\$755,657,102	
3	2011	Additions/Retirements	\$62,011,432	
4	2011	Pre-1997 PTF Transmission Plant	\$349,334,382	29.89%
5	2011	Post-1996 PTF Transmission Plant	\$819,449,952	70.11%
6	2011	Total PTF Transmission Plant	\$1,168,784,335	100.00%
7	2011	Post-2003 PTF Transmission Plant	\$213,375,099	

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5
- 7 PTF Plant Report: Post 2003 RSP Projects

GROSS PLANT ASSOC. WITH HVDC LEASES <u>2011</u>

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$0
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	0 0 0%
5	Total Gross Plant leased by NHH (a)	\$0
6	Total Land from Sandy Pond to New Hampshire	\$0
7	HVDC lines occupy 35% of Right of Way	0%
8	Total Land leased by NEH (a)	\$0
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$0

Source:

- 1 FERC Form 1, Page 423.1, Lines 5 + 16
- 2 Total miles used per lease agreement
- 3 Total miles per lease agreement
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.
New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2011</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,138,245
2	Less: Specifically identified Transmission-Related	
2	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission Only 1990 - 1999	\$9,713
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	2010 Transmission	\$79,948
	2011 Transmission	\$157,814
		\$750,783
3	Total unidentified Book Depreciation on Equity AFUDC	\$387,462
4	Plant Allocator Factor	99.2997%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,749
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$750,783</u>
7	Total Transmission-Related Equity AFUDC	\$1,135,532
8	Post-96 PTF Allocation Factor	51.4205%
9	Transmission-Related Equity AFUDC	\$583,896

- Sources: 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - Worksheet 5 PTF Plant Allocation Factor 4
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - Worksheet 6 Post-96 PTF Allocation Factor 8
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2011</u>	MECO <u>2011</u>
1	Total Integrated Facilities Charges	\$0	\$0
2	Total 2011 PTF Property	\$0	\$0
3	Total Transmission Plant in 2011	\$0	\$0
4	NECO or MECO PTF Plant Allocator	0.00%	0.00%
5	PTF Related Integrated Facilities Charge	\$0	\$0
6	Total Integrated Facilities	=	\$0

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2011 Regulatory Commission Expense

Line <u>No.</u>		<u>2011</u>	Source
1	Total Regulatory Commission Expense - NEP	\$4,168,438	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$78,276	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$229,133	FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$1,255,423</mark>	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,605,606	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property New England Power Company

	<u>2011</u>
Revenues	\$1,213,781
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,213,781
PTF Allocation	51.4205%
Total PTF Revenue	\$624,132

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff New England Power Company

	<u>2011</u>
Revenues	\$809,392
Post-96 PTF Percent	70.1113%
Total Post-96 PTF Revenue	\$567,475

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Shading denotes an input

Submitted on:				
Revenue Requirements for (year):		Calen	dar Year 2011	
Rates Effective for the Period: Through:		-	une 2012 /ay 2013	
Customer:	New England P	ower Compa	any	
Customer's NABs Number:				
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:				
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$100,395,777	_(a)	\$128,354,111	(f)
Total of Attachment F - Section J - Support Revenue	\$5,663,545	(b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$723,254	(c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$507,986)	(d)	(\$1,191,607)	(i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$94,947,500	(e)=(a)-(b)+(c)+(d)	\$127,162,504	(j)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A	-	\$36,193,039	(k)
Annual True-up (per Attachment C to Attacment F Im[plementation Rule)	N/A	_()	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$94,947,500	(n)=(e) + (l)	\$163,355,543	(0)=(j)+
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement	ents			

and Post-96 Revenue Requirements Subtotals for rate calculations under the Tariff:

\$258,303,043	(p) = (n) + (o)

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2011

PRE-1997

	Sha	ading denotes an input	-1557		
	One		Attachment F		
	Ι.	INVESTMENT BASE	Reference	NEP	Reference
Line No.			Section:		
1	-	Transmission Plant	(A)(1)(a)	\$336,247,655	Worksheet 3, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$1,399,489	Worksheet 3, line 3 column 5
3		Plant Held For Future Use	(A)(1)(c)	\$225,295	Worksheet 3, line 5 column 5
4		Total Plant (Lines 1+2+3)	(,,,(,),(,))	\$337,872,439	
·				<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	
5		Accumulated Depreciation	(A)(1)(d)	(\$77,488,640)	Worksheet 3, line 8 column 5
6		Accumulated Deferred Income Taxes	(A)(1)(e)	(\$76,355,405)	Worksheet 3, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(f)	\$91,898	Worksheet 3, line 12 column 5
8		Other Regulatory Assets	(A)(1)(g)	\$9,354,618	Worksheet 3, line 16 column 5
9		Net Investment (Line 4+5+6+7+8)		\$193,474,910	
10		Prepayments	(A)(1)(h)	\$30,363	Worksheet 3, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$838,599	Worksheet 3, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$1,741,012	Worksheet 3, line 25 column 5
10				<u> </u>	
13		Total Investment Base (Line 9+10+11+12)		\$196,084,884	
	١١.	REVENUE REQUIREMENTS			
14		Investment Return and Income Taxes	(A)	\$23,859,746	Worksheet 2
15		Depreciation Expense	(B)	\$7,623,413	Worksheet 4, line 3, column 5
16		Amortization of Loss on Reacquired Debt	(C)	\$60,966	Worksheet 4, line 4, column 5
17		Investment Tax Credit	(D)	(\$86,551)	Worksheet 4, line 5, column 5
18		Property Tax Expense	(E)	\$5,956,173	Worksheet 4, line 6, column 5
19		Payroll Tax Expense	(F)	\$496,949	Worksheet 4, line 22, column 5
20		Operation & Maintenance Expense	(G)	\$7,644,111	Worksheet 4, line 11, column 5
21		Administrative & General Expense	(H)	\$6,283,985	Worksheet 4, line 21, column 5
22		Transmission Related Integrated Facilities Charge	(I)	\$48,556,985	Attachment 4, line 6
23		Transmission Support Revenue	(J)	(\$5,663,545)	Worksheet 6
24		Transmission Support Expense	(K)	\$723,254	Worksheet 6
25		Transmission Related Expense from Generators	(L)	\$0	Worksheet 7
26		Transmission Related Taxes and Fees Charge	(M)	\$0	
27		Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$241,917)	Attachment 7
28		Transmission Rents Received from Electric Property	(O)	(\$266,069)	Attachment 6

\$94,947,500

29 Total Revenue Requirements (Line 14 thru 28)

New England Power Company Annual Revenue Requirements For Costs in 2011

Shading denotes an input

			F	LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY /ESTMENT RETURN	CAPITALIZATION 12/31/2011 \$410,350,000 \$1,111,700 \$746,206,523 \$1,157,668,223		CAPITALIZATION RATIOS 35.45% 0.10% 64.46% 100.00%	COST OF CAPITAL 1.18% 6.02% 11.07%	COST OF CAPITAL 0.42% 0.01% 7.14% 7.57%	EQUITY PORTION 0.01% 7.14% 7.15%
Cost of Capital Rate=										
(a) Weighted Cost of Capital	= =	0.0757								
(b) Federal Income Tax	= (R.O.E. + (PTF Inv. (Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x -	Federal Income Tax Federal Income Tax			
	= (0.0715 +((\$86,551) +	\$248,755) /	\$196,084,884) x	0.35	}		
	= =	0.0389454					0.00)		
(c) State Income Tax	= (R.O.E. + (PTF Inv. (Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	+	Federal Income T State Income Tax I		State Income Tax R	ate
	= (0.0715 +(1	(\$86,551) +	\$248,755) /	\$196,084,884) + -	0.0389454 0.059466)*	0.059	466
	= =	0.0070353								
(a)+(b)+(c) Cost of Capital Rate	= _	0.1216807								
	-	(PTF)								
INVESTMENT BASE		\$196,084,884	From Worksheet	1						
x Cost of Capital Rate		0.1216807								

= Investment Return and Income Taxes \$23,859,746 To Worksheet 1

New England Power Company

			New England Powe	er Company			
	Shading denotes an input						
Line No.		(1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference
1	Transmission Plant					\$349,334,382	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases					(\$13,086,728)	Attachment 2
3	General Plant	\$6,396,486	99.8099% (a)	\$6,384,326	21.9207% (b)	\$1,399,489	FERC Form 1 Page 207.99g
4	Total (line 1+2+ 3)		-	\$6,384,326	-	\$337,647,144	
5	Transmission Plant Held for Future Use	\$1,027,771		\$1,027,771	21.9207% (b)	\$225,295	FERC Form 1 Page 214.2,4,9
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	(\$348,750,683)		(\$348,750,683)	21.9207% (b)	(\$76,448,591)	FERC Form 1 Page 219.25
7	General Plant Accumulated Depreciation	(\$4,753,633)	99.8099% (a)	(\$4,744,596)	21.9207% (b)		FERC Form 1 Page 219.28
8	Total (line 6+ 7)		=	(\$353,495,279)	=	(\$77,488,640)	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	(\$402,325,609)	99.2997% (c)	(\$399,508,123)	21.9207% (b)	(\$87,574,977)	FERC Form 1 Page 113.62-64
10	Accumulated Deferred Taxes (190)	\$51,543,505		\$51,182,546	21.9207% (b)		FERC Form 1 Page 111.82
11	Total (line 9+ 10)		=	(\$348,325,577)	=	(\$76,355,405)	
12	Transmission Loss on Reacquired Debt	\$419,230	100.0000%	\$419,230	21.9207% (b)	\$91,898	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$0	99.8099% (a)	\$0	21.9207% (b)	\$0	
14	FAS 109 (Asset Account 182.3)	\$42,674,813	100.0000%	\$42,674,813	21.9207% (b)	\$9,354,618	FERC Form 1 Page 232.7f
15	FAS 109 (Liability Account 254)	\$0	100.0000%	\$0	21.9207% (b)	\$0	FERC Form 1 Page 278
16	Total (line 13+14+ 15)	\$42,674,813	=	\$42,674,813	=	\$9,354,618	
17	Transmission Prepayments	\$138,779	99.8099% (a)	\$138,515	21.9207% (b)	\$30,363	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$3,825,605		\$3,825,605	21.9207% (b)	\$838,599	FERC Form 1 Page 227.8c
19 20 21 22 23	Cash Working Capital Operation & Maintenance Expense Administrative & General Expense Transmission Support Expense Subtotal (line 20+21+22)				-	\$7,644,111 \$6,283,985 \$0 \$13,928,096	Worksheet 1, Line 20 Worksheet 1, Line 21 Worksheet 6
24 25	Total (line 23 * line 24)				-	0.1250 \$1,741,012	x 45 / 360

(a) Worksheet 5 Line 11(b) Worksheet 5 Line 3(c) Worksheet 5 Line 16

PTF Revenue Requirements Worksheet 4 of 6

	A U U U U U		New England	Tower Company			
	Shading denotes an input		(2) Wage/Plant	(3) = (1)*(2)	(4) PTF	(5) = (3)*(4)	
Line No.		(1) Total	Allocation	(3) = (1) (2) Transmission Allocated	Allocation Factor (b)	(5) = (3) (4) PTF Allocated	Source Reference for Col (1)
1 2 3	Depreciation Expense Transmission Depreciation General Depreciation	\$34,416,139 \$361,782	99.8099% (a) _	\$34,416,139 <u>\$361,094</u> \$34,777,233	21.9207% (b) 21.9207% (b)	\$7,544,259 <u>\$79,154</u> \$7,623,413	FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
4	Amortization of Loss on Reacquired Debt	\$278,121	100.0000%	\$278,121	21.9207% (b) _	\$60,966	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$394,836)	100.0000%	(\$394,836)	21.9207% (b)	(\$86,551)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$27,171,454	100.0000%	\$27,171,454	21.9207% (b)	\$5,956,173	FERC Form 1 Page 263.10,17,23,28i - Footnote (e)
7 8 9 10 11	Transmission Operation and Maintenance Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) **Station Expenses & Rents - #562 / #567 O&M less lines 8, 9 & 10	\$61,295,709 \$14,532,110 \$11,891,943 \$0 \$34,871,656	-	\$61,295,709 \$14,532,110 \$11,891,943 \$34,871,656	21.9207% (b) 21.9207% (b) 21.9207% (b) 21.9207% (b)	\$13,436,448 \$3,185,540 \$2,606,797 \$0 \$7,644,111	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15 16 17	Transmission Administrative and General Total Administrative and General Less: Properly Insurance (#924) Less: General Advertising Expense (#928) Less: General Advertising Expense (#930 1) Subtotal [line 12 minus (13 thru 15)] Plus: Properly Insurance Allocative using Plant Allocator	\$30,296,960 (\$135,569) \$4,168,438 \$0 \$26,264,091 (\$135,569)	99.8099% (a) 99.2997% (c)	\$26,214,163 (\$134,620)	21.9207% (b) 21.9207% (b)	\$5,746,328 (\$29,510)	FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b Line 13
18 19 20 21	Plus: Projulty Instantia Anacaeo Usarj Panin Anacaeo Plus: Regulary Commission Expense Plus: Specifically identified Trans. Related Regulatory Expense Plus: Specifically identified Trans. Related Regulatory Expense Total AAG (Inice 16 + (17 thru 20))	\$2,605,606 \$0 \$28,734,128	99.2997% (C) 99.2997% (C)	\$2,587,359 \$0 \$28,666,902	21.9207% (b) 21.9207% (b) 21.9207% (b) 21.9207% (b)	\$567,167 \$0 \$6,283,985	Attachment 5 Line 6 Line 15 FERC Form 1 Page 350.18c
22	Payroll Tax Expense	\$2,271,348	99.8099% (a)	\$2,267,030	21.9207% (b)	\$496,949	FERC Form 1 Page 263.3,4i - Footnote (d)
(d) Payroll taxes FERC Form 1, page 263.i		(e)	Property Taxes F	F1, Page 263i		
	Federal Unemployment FICA Payroll Taxes State Unemployment Total	\$9,327 \$2,262,021 \$0 \$2,271,348		Massachusetts New Hampshire Vermont Maine Rhode Island Connecticut	\$23,571,202 \$2,662,307 \$786,615 \$0 \$151,330 <u>\$0</u> \$27,171,454		

New England Power Company

(a) Worksheet 5 Line 11
(b) Worksheet 5 Line 3
(c) Worksheet 5 Line 16
(d) Transmission Only - Payroll Taxes - Specifically identified in FERC From 1
(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1 2	PTF Transmission Investment	\$349,334,382 \$1,593,625,753	Attachment 1, Page 1 FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	21.9207%	
	Transmission Wages and Salaries Allocation Factor		
4	Direct Transmission Wages and Salaries	\$0	FERC Form 1 Page 354.14b
5	Affiliated Company Transmission Wages and Salaries	\$23,467,616	General Ledger Query
6	Total Transmission Wages and Salaries (Line 4 + Line 5)	\$23,467,616	
7	Total Wages and Salaries	\$0	FERC Form 1 Page 354.28b
8	Administrative and General Wages and Salaries	\$0	FERC Form 1 Page 354.27b
9	Affiliated Company Wages and Salaries less A&G	\$23,512,307	General Ledger Query
10	Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$23,512,307	
11	Percent Allocation (Line 6/Line 10)	99.8099%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,593,625,753	Line 2
13	plus Transmission-Related General Plant	\$6,384,326	Worksheet 3, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,600,010,079	
15	Total Plant in Service	\$1,611,293,575	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2997%	

New England Power Company Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2011

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			TOTA	L
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses
			(a)	(b)
NSTAR	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$102,578
	345 kV "stabilizer" 342 Line	Pg 332 Line 3 Col (g)		(446)
	345 kV Switch Tap Bridge - Station 451 Whitman	Pg 332 Line 13 Col (g)		\$774
	Bell Rock Road	Page 330.5 Line 12 Col (n)	\$38,953	
	Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV Tewksbury- Woburn 338 Line]	Page 330 Line 4 Col (n)	\$61,463	
	Boston-Edison [115 kV Tewksbury - Woburn M139 line - 115kV Tewksbury-Woburn N140 Line]	Page 330 Line 3 Col (n)	\$11,594	
	Boston Edison -345 kV Golden Hills-Mystic 349 Line	Page 330 Line 2 Col (n)	\$47,313	
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrook	Page 330.1 Line 8 Col (n)	\$423,318	
NU	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5 Col (n)	\$13,319	
NEP	Chester SVC	Transmission Billing		\$620,348
	HQ Phase II - AC in MA	Page 330 Line 11 Col (n)	\$5,027,675	
VT Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12 Col (n)	\$39,910	
		Totals	\$5,663,545	\$723,254

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 22, Column 5)

\$0

New England Power Company 2011 Informational Filing PTF Plant Allocation

				Percent Pre/Post
1	2010	Pre-1997 PTF Transmission Plant	\$351,352,992	
2	2010	Post-1996 PTF Transmission Plant	\$725,670,117	
3	2011	Additions/Retirements	\$91,761,225	
4	2011	Pre-1997 PTF Transmission Plant	\$349,334,382	29.89%
5	2011	Post-1996 PTF Transmission Plant	<mark>\$819,449,952</mark>	70.11%
6	2011	Total PTF Transmission Plant	\$1,168,784,335	100.00%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5

GROSS PLANT ASSOC. WITH HVDC LEASES 2011

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$14,269,187
2 3 4	<u>Allocation</u> Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	224 253 89%
5	Total Gross Plant leased by NHH (a)	\$12,699,576
6	Total Land from Sandy Pond to New Hampshire	\$1,106,146
7	HVDC lines occupy 35% of Right of Way	35%
8	Total Land leased by NEH (a)	\$387,151
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$13,086,728
<u>Sourc</u>	<u>:e:</u>	
1	FERC Form 1, Page 422.1-423.1, Lines 5 + 16 col (I)	
2 3	Total miles used per lease agreement FERC Form 1, Page 422.1 Lines 5 + 16 col (f)	
4	Line 2 / Line 3	

- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2011</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,137,510
2	Less: Specifically Identified Transmission-Related	
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission Only 1990 - 1999	\$9,713
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	2010 Transmission	\$79,948
	2011 Transmission	\$157,122
		\$750,091
3	Total Unidentified Book Depreciation on Equity AFUDC	\$387,419
4	Plant Allocator Factor	99.2997%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,706
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$750,091</u>
7	Total Transmission-Related Equity AFUDC	\$1,134,797
8	Pre-97 PTF Allocation Factor	21.9207%
9	Transmission-Related Equity AFUDC	\$248,755

Sources:

- 1 & 2 Transmission Rates includes \$9,713 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 5 Pre-97 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2011</u>	MECO <u>2011</u>
1	Total Integrated Facilities Charges	\$60,868,519	<mark>\$8,564,781</mark>
2 3 4	Total 2011 PTF Property Total Transmission Plant in 2011 NECO or MECO PTF Plant Allocator	\$234,900,022 \$321,180,057 73.14%	\$21,875,675 \$46,378,064 47.17%
5	PTF Related Integrated Facilities Charge	\$44,517,136	\$4,039,849
6	Total Integrated Facilities	=	\$48,556,985

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2011 Regulatory Commission Expense

Line <u>No.</u>		<u>2011</u>	<u>Source</u>
1	Total Regulatory Commission Expense - NEP	\$4,168,438	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$78,276	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$229,133	FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$1,255,423</mark>	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,605,606	Line 1 - (Line 2-5)

Attachment 6

Transmission Rents Received from Electric Property New England Power Company

	<u>2011</u>
Revenues	<mark>\$1,213</mark> ,781
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,213,781
PTF Allocation	21.9207%
Total PTF Revenue	\$266,069

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2011</u>
Revenues	\$809,392
Pre-97 PTF Percent	29.8887%
Total Pre-97 PTF Revenue	\$ 241,917

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Submitted on:	_			
Revenue Requirements for (year):		Calend	ar Year 2012	
Rates Effective for the Period: Through:			ne 2013 ay 2014	
Customer:	New England Pov	wer Compa	ny	
Customer's NABs Number:				ļ
Name of Participant responsible for customer's billing:				ļ
DUNs number of Participant responsible for customer's billing:	_			ļ
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$119,273,424 (a	a)	\$144,708,124	(f)
Total of Attachment F - Section J - Support Revenue	\$5,407,628 (b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$703,144 (c	2)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$526,111) (d	l)	(\$1,368,365)	(1)
Sub Total - Sum (A through I) - J + K + (L through O)	\$114,042,830 (e	e)=(a)-(b)+(c)+(d)	\$143,339,759	()
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A		\$53,230,475	(k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	N/A ())	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$114,042,830 (n	n)=(e)+(l)	\$196,570,234	(0)=(j)+(k)+
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest)			\$310,613,063	(p) = (n) + (

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2012

POST-1996

		FOX	51-1990		
	Sha	ding denotes an input			
			Attachment F		
	١.	INVESTMENT BASE	Reference	NEP	Reference
Line No.			Section:		
1		Transmission Plant	(A)(1)(a)	\$918,015,798	Worksheet 5, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$3,421,788	Worksheet 5, line 3 column 5
3		Plant Held For Future Use	(A)(1)(c)	\$551,011	Worksheet 5, line 5 column 5
4		Total Plant (Lines 1+2+3)	(,,)(,)(0)	\$921,988,597	
				<i>402</i> ,000,001	
5		Accumulated Depreciation	(A)(1)(d)	(\$201,785,268)	Worksheet 5, line 8 column 5
6		Accumulated Deferred Income Taxes	(A)(1)(e)	(\$210,488,062)	Worksheet 5, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(f)	\$151,668	Worksheet 5, line 12 column 5
8		Other Regulatory Assets	(A)(1)(g)	\$24,851,635	Worksheet 5, line 16 column 5
9		Net Investment (Line 4+5+6+7+8)	(/()()(9)	\$534,718,570	worksheet 5, inte To column 5
5				φ 33 ⁻ ,710,370	
10		Prepayments	(A)(1)(h)	\$0	Worksheet 5, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$2,621,268	Worksheet 5, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$4,629,975	Worksheet 5, line 25 column 5
13		NEEWS CWIP		\$14,550,755	Worksheet 5, line 26 column 5
13		NEEWS CWIP	(A)(1)(k)	\$14,550,755	worksneet 5, line 26 column 5
14		Total Investment Base (Line 9+10+11+12+13)		\$556,520,569	
	Ш.	REVENUE REQUIREMENTS			
15		Investment Return and Income Taxes	(A)	\$71,452,053	Worksheet 3
16		Depreciation Expense	(B)	\$20,122,458	Worksheet 6, line 3, column 5
17		Amortization of Loss on Reacquired Debt	(C)	\$73,091	Worksheet 6, line 4, column 5
18		Investment Tax Credit	(D)	(\$209,438)	Worksheet 6, line 5, column 5
19		Property Tax Expense	(E)	\$15,372,820	Worksheet 6, line 6, column 5
20		Payroll Tax Expense	(E)	\$857,337	Worksheet 6, line 22, column 5
21		Operation & Maintenance Expense	(G)	\$18,125,978	Worksheet 6, line 11, column 5
22		Administrative & General Expense	(U) (H)	\$18,913,825	Worksheet 6, line 21, column 5
23		Transmission Related Integrated Facilities Charge	(1)	\$0	Attachment 4, line 6
23		Transmission Support Revenue	(I) (J)	\$0 \$0	Worksheet 8
24		Transmission Support Expense		\$0 \$0	Worksheet 8
25 26			(K)	\$0 \$0	WUINSHEELO
26 27		Transmission Related Expense from Generators Transmission Related Taxes and Fees Charge	(L)	\$0 \$0	
		0	(M)		Attack - and 7
28		Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$762,866)	Attachment 7
29		Transmission Rents Received from Electric Property	(O)	(\$605,499)	Attachment 6
30		Total Revenue Requirements (Line 14 thru 28)		\$143,339,759	

New England Power Company Post 1996 Regional Network Service Revenue Requirement For Test Year Ended 12/31/2012

Line No. 1 2 3	Description Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA) Forecasted Revenue Requirements for Forecasted Transmission CWIP Forecasted Transmission Revenue Requirements	Attachment F Reference	Forecasted Amount \$ \$ 53,403,146 \$172,671 \$ 53,230,475	Reference Line 6 Line 9 Line 1 + Line 2
4 5 6	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA) Carrying Charge Factor (CCF) <i>Forecasted Revenue Requirements for FTPA</i>	Appendix C iv Appendix C vi	\$ 347,591,621 15.36376% \$ 53,403,146	Project Detail Line 20 Line 4 * Line 5
7 8 9	Forecasted New England Power Company (NEP) NEEWS CWIP (FNCWIP) NEEWS NEP Cost of Capital Rate (NCOC) Forecasted Revenue Requirements for FNCWIP	Appendix C xiii Appendix C xiv	\$ (1,248,323) 13.83223% \$ (172,671)	Project Detail Workpaper 4 Line 7 * Line 8
	Derivation of Carrying Charge (CCF)			
10 11 12 13 14 15 16 17 18 19	Investment Return and Income Taxes Depreciation Expense Amortization of Loss on Reacquired Debt Investment Tax Credit Property Tax Expense Payroll Tax Expense Operation & Maintenance Expense Administrative & General Expense Total Expenses (Lines 10 thru 17) PTF Transmission Plant	(A) (B) (C) (D) (E) (F) (G) (H) (A)(1)(a)	\$67,785,682 20,122,458 73,091 (209,438) 15,372,820 857,337 18,125,978 18,913,825 \$141,041,753 \$918,015,798	Summary, Line 14 Summary, Line 15 Summary, Line 16 Summary, Line 17 Summary, Line 17 Summary, Line 19 Summary, Line 20 Summary, Line 1
20	Carrying Charge Factor (FTPA)		15.36376%	Line 18 / Line 19

New England Power Company Annual Revenue Requirements For Costs in 2012

				CAPITALIZATION 12/31/2012	CAPITALIZATION COST OF RATIOS CAPITAL	COST OF EQUITY CAPITAL PORTION
			LONG-TERM DEBT PREFERRED STOCK	\$ 410,350,000 \$ 1,111,700	35.77% 0.65% 0.10% 6.02%	0.23% 0.01% 0.01%
				\$ 735,600,299 \$1,147,061,999	<u>64.13%</u> <u>11.64%</u>	7.46% 7.46%
			TOTAL INVESTMENT RETURN	\$1,147,001,999	100.00%	7.70% 7.47%
Cost of Capital Rate=						
(a) Weighted Cost of Capital	=	0.0770				
(b) Federal Income Tax	= (R.O.E. +	PTF Inv. Eq. AFUDC (Tax Credit + of Deprec. Exp.)	/ PTF Inv. Base)	x Federal Income Tax Rate)
	= ((1 0.0747 +	(<mark>(\$209,438)</mark> + \$720,355)	/ \$556,520,569)	Federal Income Tax Rate x 0.35)
	- ((1	((\$200,400) i \$120,000 j	, 4000,020,000 /	- 0.35)
	=	0.0407174				
(c) State Income Tax	= ((PTF Inv. Eq. AFUDC (Tax Credit + of Deprec. Exp.)	/ PTF Inv. Base)	+ Federal Income Tax - State Income Tax Rate)* State Income Tax Rate
	= (0.0747 +	((\$209,438) + \$720,355)	/ \$556,520,569)	+ 0.0407174)* 0.059466
	=	(1 0.0073554			- 0.059466)
(a)+(b)+(c) Cost of Capital Rate	=	0.1250728				
		(PTF)				
INVESTMENT BASE		\$556,520,569	From Worksheet 1			
x Cost of Capital Rate		0.1250728				
= Investment Return and Income Ta	ixes	\$69,605,586	To Worksheet 1			
INVESTMENT BASE (Excluding NE	EWS CWIP)	\$541,969,813	From Worksheet 1			
x Cost of Capital Rate		0.1250728				
= Investment Return and Income Ta	axes	\$67,785,682	To Worksheet 2			
Post 2003 PTF Investment Base v	// Incremental 100 bps:					
Plant In-Service Accumulated Depreciation		\$ 213,518,137 (46,296,429)	From Attachment 1 From Worksheets 5 & 7			
Accumulate Deferred Income Tax Total Post-2003 Investment	es	(48,612,947) \$ 118,608,761	From Worksheets 5 & 7 Calculated			
Incremental ROE: Federal Income Taxes:	1.00%	6 0.00641 0.00345	Calculated Per Attachment F			
State Income Taxes: Cost of Capital Rate		0.00062	Per Attachment F			
Incremental Return and Taxes on P	ost-2003 PTF Investmen	t \$ 1,244,200				
NEEWS In-Service w/ Incrementa New England Power NEEWS In-S		\$ 56,490,343	PowerPlant PTF 4 & 5 reports - PTF only			
Accumulated Depreciation Accumulate Deferred Income Tax		(12,248,613) (12,861,493)	From Worksheets 3 & 5 From Worksheets 3 & 5			
Total New England Power NEEWS	S Investment	\$ 31,380,236	Calculated			
Incremental ROE: Federal Income Taxes:	1.25%	6 0.00802 0.00432	Calculated Per Attachment F			
State Income Taxes: Cost of Capital Rate		0.00078	Per Attachment F			
Incremental Return and Taxes on N	EEWS PTF Investment	\$ 411,471				
NEEWS Allocation Factor Total Transmission Invest		\$1,712,325,359	Worksheet 7 Line 2			
Total NEEWS In-Service - For Accumulated Deprecia		\$ 56,490,343 3.2990%	Plant Accounting Records			
NEEWS Allocation Factor Plant Allocation Factor		3.2990% 0.992978	Worksheet 7 Line 16			
For Accumulated Deferred	Income Taxes	3.2759%				
L						

New England Power Company Annual Revenue Requirements For Costs in 2012

	CAPITALIZATION 12/31/2012 CAPITALIZATION RATIOS COST OF CAPITAL COST OF CAPITAL	AL PORTION 13% 11% 0.01% 17% 8.27%
Cost of Capital Rate=		
(a) Weighted Cost of Capital	= 0.0851	
(b) Federal Income Tax	= (<u>R.O.E. + ((Tax Credit + of Deprec. Exp.) / PTF Inv. Base) x Federal Income Tax Rate)</u> (1 - Federal Income Tax Rate)	
	= (0.0828 +((\$209,438) + \$720,355) / \$556,520,569) x 0.35)	
	(1 - 0.35) = <u>0.0450790</u>	
	PTF Inv. Eq. AFUDC	
(c) State Income Tax	= (R.O.E. + ((Tax Credit + of Deprec. Exp.) / PTF Inv. Base) + Federal Income Tax)* State Inco (1 - State Income Tax Rate)	ome Tax Rate
	= (0.0828 +((\$209,438) + \$720,355) / \$556,520,569) + 0.0450790)*	0.059466
	(1 - 0.09466) =0.0081433	
(a)+(b)+(c) Cost of Capital Rate	=	

PTF Revenue Requirements Worksheet 3 of 6

Shading denotes an input

New England Power Company

	Shading denotes an input		(2)		(4)		
			Wage/Plant	(3) = (1)*(2)	PTF	$(5) = (3)^*(4)$	
Line No.		(1) Total	Allocation Factors	Transmission Allocated	Allocation Factor (b)	PTF Allocated	Source Reference for Col (1)
1	Transmission Plant					\$918,015,798	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases General Plant	\$ 6,396,194	99.7856% (a)	CODO 404	53.6122% (b)	\$0 \$3,421,788	Attachment 2
3 4	Total (line 1+2+ 3)	\$ 6,396,194	99.7856% (a)	\$6,382,481 \$6,382,481	53.6122% (D)	\$921,437,586	FERC Form 1 page 207.99g
4	Total (inte 1+2+3)			φ0,302,401	=	\$921,437,300	
5	Transmission Plant Held for Future Use	\$ 1,027,771		\$1,027,771	53.6122% (b)_	\$551,011	FERC Form 1 page 214.2d,4d,9d
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	\$ (371,277,823)		(\$371,277,823)	53.6122% (b)	(\$199,050,209)	FERC Form 1 page 219.25b
7	General Plant Accumulated Depreciation	\$ (5,112,522)	99.7856% (a)		53.6122% (b)	(\$2,735,059)	FERC Form 1 Page 219.28b
8	Total (line 6+ 7)			(\$376,379,384)	-	(\$201,785,268)	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	\$ (508,206,767)		(\$504,638,139)	53.6122% (b)	(\$270,547,608)	FERC Form 1 page 113.62-64
10	Accumulated Deferred Taxes (190)	\$ 112,818,102	99.2978% (c)	\$112,025,893	53.6122% (b)	\$60,059,546	FERC Form 1 page 111.82
11	Total (line 9+ 10)			(\$392,612,246)	=	(\$210,488,062)	
12	Transmission Loss on Reacquired Debt	\$ 282,898	100.0000%	\$282,898	53.6122% (b)_	\$151,668	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$-	99.7856% (a)		53.6122% (b)	\$0	FERC Form 1 Page 232.8f
14	FAS 109 (Asset Account 182.3)	\$ 46,354,440	100.0000%	\$46,354,440	53.6122% (b)	\$24,851,635	FERC Form 1 Page 232.6f
15 16	FAS 109 (Liability Account 254) Total (line 13+14+ 15)	\$- \$46,354,440	100.0000%	\$0 \$46,354,440	53.6122% (b)	\$0 \$24.851.635	FERC Form 1 Page 278
10	10tal (inte 13+14+13)	\$40,334,440		\$40,334,440	=	\$24,001,000	
17	Transmission Prepayments	\$-	99.7856% (a)	\$0	53.6122% (b)_	\$0	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$ 4,889,313		\$4,889,313	53.6122% (b)_	\$2,621,268	FERC Form 1 Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$18,125,978	Worksheet 1, Line 20
21	Administrative & General Expense					\$18,913,825	Worksheet 1, Line 21
22	Transmission Support Expense				-	\$0	Worksheet 8
23 24	Subtotal (line 20+21+22)					\$37,039,803 0,1250	x 45 / 360
24 25	Total (line 23 * line 24)				-	\$4,629,975	x 45 / 300
20	1 Utar (1118 23 1118 24)				=	\$4,029,975	
26	NEEWS CWIP	\$ 14,550,755			=	\$14,550,755	Plant Accounting Records

(a) Worksheet 7 Line 11 (b) Worksheet 7 Line 3 (c) Worksheet 7 Line 16

PTF Revenue Requirements Worksheet 4 of 6

Shading denotes an input

New England Power Company

Line No. 1 2 3	Depreciation Expense Transmission Depreciation General Depreciation Total (line 1+2)	(1) Total (g) \$37,176,180 \$357,944	Wage/Plant Allocation Factors 99.7856% (a)	(3) = (1)*(2) Transmission Allocated \$37,176,180 \$357,177 \$37,533,357	PTF Allocation Factor (b) 53.6122% 53.6122%	(5) = (3)*(4) PTF Allocated \$19,930,968 \$191,490 \$20,122,458	Source Reference for Col (1) FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
4	Amortization of Loss on Reacquired Debt	\$136,332		\$136,332	53.6122%	\$73,091	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$390,654)		(\$390,654)	53.6122%	(\$209,438)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$28,674,108		\$28,674,108	53.6122%	\$15,372,820	FERC Form 1 Page 263.10,17,23,28,31i - Footnote (e)
7 8 9 10 ** 11	<u>Transmission Operation and Maintenance</u> Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) * Station Expenses & Rents - #562 & #567 O&M less lines 8, 9 & 10	\$56,023,206 \$12,561,903 \$9,651,875 \$0 \$33,809,428		\$56,023,206 \$12,561,903 \$9,651,875 \$33,809,428	53.6122% 53.6122% 53.6122% 53.6122%	\$30,035,273 \$6,734,712 \$5,174,583 \$0 \$18,125,978	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15 16 17 18 19 20 21	Transmission Administrative and General Total Administrative and General Less: Property Insurance (#924) Less: Regulatory Commission Expenses (#928) Less: General Advertising Expenses (#928) Less: General Advertising Expenses (#928) Less: Regulatory Commission Expenses Plus: Property Insurance Allocated using Pant Allocation Pus: Sepecificatly identified Trans. Related General Advertising Expense Pus: Specifically identified Trans. Related General Advertising Expense Total A&G [line 16 + (17 thru 20)]	\$36,456,496 \$113,624 \$3,645,548 \$0 \$32,697,324 \$113,624 \$2,502,632 \$0 \$53,850 \$35,367,430	99.7856% (a) 99.2978% (c) 99.2978% (c)	\$32,627,221 \$112,826 \$2,485,059 \$0 \$53,850 \$35,278,956	53.6122% 53.6122% 53.6122% 53.6122% 53.6122%	\$17,492,171 \$60,489 \$1,332,295 \$0 \$28,870 \$18,913,825	FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b Line 13 Attachment 5 Line 6 Line 15 FERC Form 1 Page 350.18c
22	Payroll Tax Expense	\$1,602,581	99.7856% (a)	\$1,599,145	53.6122%	\$857,337	FERC Form 1 Page 263.3,4i - Footnote (d)
(c	i) <u>Payroll taxes - G/L 408.1</u> Federal Unemployment FICA Payroll Taxes State Unemployment Total	\$0 \$0 \$1,602,581 \$0 \$1,602,581	Line 4(i) Line 3(i) Line 9 (i)	Property Taxes F Massachusetts New Hampshire Vermont Maine Rhode Island Connecticut	F1, Page 263i \$24,657,699 \$2,788,702 \$1,080,853 \$0 \$146,854 \$0 \$28,674,108		Property Taxes FERC Form 1 Page 263.10(i) FERC Form 1 Page 263.17(i) FERC Form 1 Page 263.23(i) n/a FERC Form 1 Page 263.28(i) & 35(i) FERC Form 1 Page 263.31(i)

(a) Worksheet 7, Line 11
(b) Worksheet 7, Line 3
(c) Worksheet 7, Line 16
(d) Transmission Only - Payroll Taxes - Specifically identified in FERC Form 1
(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1	PTF Transmission Investment	\$918,015,798	Attachment 1, Page 1
2	Total Transmission Investment	\$1,712,325,359	FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	53.6122%	
	Transmission Wages and Salaries Allocation Factor		
4	Direct Transmission Wages and Salaries	\$0	FERC Form 1 Page 354.14b
5	Affiliated Company Transmission Wages and Salaries	\$18,493,757	General Ledger Query
6	Total Transmission Wages and Salaries (Line 4 + Line 5)	\$18,493,757	
7	Total Wages and Salaries	\$0	FERC Form 1 Page 354.28b
8	Administrative and General Wages and Salaries	\$0	FERC Form 1 Page 354.27b
9	Affiliated Company Wages and Salaries less A&G	\$18,533,501	General Ledger Query
10	Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$18,533,501	
11	Percent Allocation (Line 6/Line 10)	99.7856%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,712,325,359	Line 2
13	plus Transmission-Related General Plant (Line 2 of Wkst. 3)	\$6,382,481	Worksheet 5, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,718,707,840	
15	Total Plant in Service	\$1,730,862,090	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2978%	
	Post-2003 PTF Allocation Factor		
17	Total Post-2003 PTF Investment	\$ 213,518,137	Attachment 1 Line 7
18	Total Transmission Investment	\$1,712,325,359	Line 2
19	Percent Allocation (Line 17/Line 18) for Post-2003 to Total Tx	12.4695%	
20	Total Invst in Tx Plant/Total Plant in Serv *		
21	Post-2003 PTF Tx Plant/Total Invst in Tx Plant	12.3819%	Line 19 * Line 16

New England Power Company Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2012

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			тот	AL
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses
			(a)	(b)
NSTAR	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$0
	Bell Rock Road	Page 330.5 Line 12 Col (n)	\$0	
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabroo	Page 330.1 Line 8 Col (n)	\$0	
NU	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5 Col (n)	\$0	
NEP	Chester SVC	Transmission Billing		\$C
	HQ Phase II - AC in MA	Page 330 Line 11 Col (n)	\$0	
VT Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12 Col (n)	\$0	
		Totals	\$0	\$0

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 22, Column 5)

\$0

New England Power Company 2012 Informational Filing PTF Plant Allocation

			_	Percent Pre/Post
1	2011	Pre-1997 PTF Transmission Plant	\$349,334,382	
2	2011	Post-1996 PTF Transmission Plant	<mark>\$819,449,952</mark>	
3	2012	Additions/Retirements	\$102,191,455	
4	2012	Pre-1997 PTF Transmission Plant	\$352,959,991	27.77%
5	2012	Post-1996 PTF Transmission Plant	\$918,015,798	72.23%
6	2012	Total PTF Transmission Plant	\$1,270,975,789	100.00%
7	2012	Post-2003 PTF Transmission Plant	\$213,518,137	172.23%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5
- 7 PTF Plant Report: Post 2003 RSP Projects

GROSS PLANT ASSOC. WITH HVDC LEASES 2012

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$0
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	0 0 0%
5	Total Gross Plant leased by NHH (a)	\$0
6	Total Land from Sandy Pond to New Hampshire	\$0
7	HVDC lines occupy 35% of Right of Way	0%
8	Total Land leased by NEH (a)	\$0
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$0

Source:

- 1 FERC Form 1, Page 423.1, Lines 5 + 16
- 2 Total miles used per lease agreement
- 3 Total miles per lease agreement
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2012</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,346,360
2	Less: Specifically identified Transmission-Related	
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission	\$9,777
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission 2007 Transmission	\$64,352 \$42,418
	2007 Transmission 2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	2010 Transmission	\$79,948
	2011 Transmission	\$155,706
	2012 Transmission	\$210,246
		\$958,985
		+ ,
3	Total unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.2978%
5 6 7	Allocated Transmission Related Book Depreciation on Equity AFUDC Plus: Specifically Identified Transmission-Related Equity AFUDC Total Transmission-Related Equity AFUDC	\$384,655 <u>\$958,985</u> \$1,343,640
8 9	Post-96 PTF Allocation Factor Transmission-Related Equity AFUDC	53.6122% \$720,355

Sources:

- 1 & 2 Transmission Rates includes \$9,777 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 6 Post-96 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2012</u>	MECO <u>2012</u>
1	Total Integrated Facilities Charges	\$0	\$0
2	Total 2012 PTF Property	\$0	\$0
3	Total Transmission Plant in 2012	\$0	\$0
4	NECO or MECO PTF Plant Allocator	0.00%	0.00%
5	PTF Related Integrated Facilities Charge	\$0	\$0
6	Total Integrated Facilities	=	\$0

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2012 Regulatory Commission Expense

Line <u>No.</u>		<u>2012</u>	Source
1	Total Regulatory Commission Expense - NEP	\$3,645,548	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$63,704	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$229,133	FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$850,079</mark>	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,502,632	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property

New England Power Company

	<u>2012</u>
Revenues	<mark>\$1,129,406</mark>
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,129,406
PTF Allocation	53.6122%
Total PTF Revenue	\$605,499

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2012</u>
Revenues	\$1,056,174
Post-96 PTF Percent	72.2292%
Total Post-96 PTF Revenue	\$762,866

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Submitted on:			
Revenue Requirements for (year):	C	alendar Year 2012	
Rates Effective for the Period: Through:		June 2013 May 2014	
Customer:	New England Power Company		
Customer's NABs Number:			
Name of Participant responsible for customer's billing:			
DUNs number of Participant responsible for customer's billing:			
	Pre-97 Revenue <u>Requirements</u>	Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$119,273,424 (a)	\$144,708,124 (f)	
Total of Attachment F - Section J - Support Revenue	\$5,407,628 (b)	\$0 (g)	
Total of Attachment F - Section K - Support Expense	\$703,144 (c)	\$0 (h)	
Total of Attachment F - Section (L through O)	(\$526,111) (d)	(\$1,368,365) ()	
Sub Total - Sum (A through I) - J + K + (L through O)	\$114,042,830 (e)=(a)-(b)+(c))+(d) \$143,339,759 (j)	
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A	\$53,230,475 (k)	
Annual True-up (per Attachment C to Attachment F Im[plementation Rule]	N/A ()	N/A (m)	
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$114,042,830 (n)=(e) + (l)	\$196,570,234 (o)=(
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement and Post-96 Revenue Requirements Subtotals for rate calculations unde		\$310,613,063 (p) =	
New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2012

PRE-1997

	2	Attachment F		
	I. INVESTMENT BASE	Reference	NEP	Reference
Line No.		Section:		
1	Transmission Plant	(A)(1)(a)	\$339,265,312	Worksheet 3, line 1&2 column 5
2	General Plant	(A)(1)(b)	\$1,315,614	Worksheet 3, line 3 column 5
3	Plant Held For Future Use	(A)(1)(c)	\$211,853	Worksheet 3, line 5 column 5
4	Total Plant (Lines 1+2+3)		\$340,792,779	
5	Accumulated Depreciation	(A)(1)(d)	(\$77,582,706)	Worksheet 3, line 8 column 5
6	Accumulated Deferred Income Taxes	(A)(1)(e)	(\$80,928,770)	Worksheet 3, line 11 column 5
7	Loss On Reacquired Debt	(A)(1)(f)	\$58,313	Worksheet 3, line 12 column 5
8	Other Regulatory Assets	(A)(1)(g)	\$9,554,994	Worksheet 3, line 16 column 5
9	Net Investment (Line 4+5+6+7+8)		\$191,894,610	
10	Prepayments	(A)(1)(h)	\$0	Worksheet 3, line 17 column 5
11	Materials & Supplies	(A)(1)(i)	\$1,007,829	Worksheet 3, line 18 column 5
12	Cash Working Capital	(A)(1)(j)	\$1,780,140	Worksheet 3, line 25 column 5
13	Total Investment Base (Line 9+10+11+12)		\$194,682,579	

II. <u>REVENUE REQUIREMENTS</u>

14	Investment Return and Income Taxes	(A)	\$24,360,748	Worksheet 2
15	Depreciation Expense	(B)	\$7,736,714	Worksheet 4, line 3, column 5
16	Amortization of Loss on Reacquired Debt	(C)	\$28,102	Worksheet 4, line 4, column 5
17	Investment Tax Credit	(D)	(\$80,525)	Worksheet 4, line 5, column 5
18	Property Tax Expense	(E)	\$5,910,565	Worksheet 4, line 6, column 5
19	Payroll Tax Expense	(F)	\$329,630	Worksheet 4, line 22, column 5
20	Operation & Maintenance Expense	(G)	\$6,969,104	Worksheet 4, line 11, column 5
21	Administrative & General Expense	(H)	\$7,272,016	Worksheet 4, line 21, column 5
22	Transmission Related Integrated Facilities Charge	(1)	\$66,747,070	Attachment 4, line 6
23	Transmission Support Revenue	(J)	(\$5,407,628)	Worksheet 6
24	Transmission Support Expense	(K)	\$703,144	Worksheet 6
25	Transmission Related Expense from Generators	(L)	\$0	Worksheet 7
26	Transmission Related Taxes and Fees Charge	(M)	\$0	
27	Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$293,308)	Attachment 7
28	Transmission Rents Received from Electric Property	(O)	(\$232,803)	Attachment 6
29	Total Revenue Requirements (Line 14 thru 28)		\$114,042,830	

New England Power Company Annual Revenue Requirements For Costs in 2012

			PF	ONG-TERM DEBT REFERRED STOCK COMMON EQUITY ESTMENT RETURN	CAPITALIZATION 12/31/2012 410,350,000 1,111,700 735,660,299 \$1,147,061,999		APITALIZATION RATIOS 35.77% 0.10% 64.13% 100.00%	COST OF CAPITAL 0.65% 6.02% 11.64%	COST OF CAPITAL 0.23% 0.01% 7.46% 7.70%	EQUITY PORTION 0.01% 7.46% 7.47%
Cost of Capital Rate=										
(a) Weighted Cost of Capital		0.0770								
(b) Federal Income Tax	= (R.O.E. + 1	PTF Inv. ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x -	Federal Income Tax Federal Income Tax)	
	= (0.0747 + 1	((\$80,525) +	\$276,963) /	\$194,682,579)	x	0.35 0.35)	
(c) State Income Tax	=	0.0407664 R.O.E. +	PTF Inv. ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	+	Federal Income Ta State Income Tax R)* State Income Tax Ra	te
	= (0.0747 + 1	((\$80,525) +	\$276,963)/	\$194,682,579)	+	0.0407664)* 0.0594)	66
		0.0073642								
(a)+(b)+(c) Cost of Capital Rate	=	0.1251306								
	_	(PTF)								
INVESTMENT BASE		\$194,682,579	From Worksheet 1							
x Cost of Capital Rate	_	0.1251306								
= Investment Return and Income Taxes	_	\$24,360,748	To Worksheet 1							

Shading denotes an input

New England Power Company

Line No.		 (1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference
1	Transmission Plant					\$352,959,991	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases					(\$13,694,679)	Attachment 2
3	General Plant	\$ 6,396,194	99.7856% (a)		20.6129% (b)	\$1,315,614	FERC Form 1 Page 207.99g
4	Total (line 1+2+ 3)			\$6,382,481		\$340,580,926	
5	Transmission Plant Held for Future Use	\$ 1,027,771		\$1,027,771	20.6129% (b)	\$211,853	FERC Form 1 page 214.2d,4d,9d
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	(371,277,823)		(\$371,277,823)	20.6129% (b)		FERC Form 1 page 219.25b
7	General Plant Accumulated Depreciation	\$ (5,112,522)	99.7856% (a)		20.6129% (b)		FERC Form 1 Page 219.28b
8	Total (line 6+ 7)			(\$376,379,384)		(\$77,582,706)	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	\$ (508,206,767)	99.2978% (c)	(\$504,638,139)	20.6129% (b)	(\$104,020,555)	FERC Form 1 Page 113.62-64
10	Accumulated Deferred Taxes (190)	\$ 112,818,102	99.2978% (c)	\$112,025,893	20.6129% (b)		FERC Form 1 Page 111.82
11	Total (line 9+ 10)			(\$392,612,246)		(\$80,928,770)	
12	Transmission Loss on Reacquired Debt	\$ 282,898	100.0000%	\$282,898	20.6129% (b)	\$58,313	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$ -	99.7856% (a)	\$0	20.6129% (b)	\$0	FERC Form 1 Page 232.8f
14	FAS 109 (Asset Account 182.3)	\$ 46,354,440	100.0000%	\$46,354,440	20.6129% (b)	\$9,554,994	FERC Form 1 Page 232.6f
15	FAS 109 (Liability Account 254)	\$ -	100.0000%	\$0	20.6129% (b)	\$0	FERC Form 1 Page 278
16	Total (line 13+14+ 15)	 \$46,354,440		\$46,354,440		\$9,554,994	
17	Transmission Prepayments	\$ -	99.7856% (a)	\$0	20.6129% (b)	\$0	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$ 4,889,313		\$4,889,313	20.6129% (b)	\$1,007,829	FERC Form 1 Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$6,969,104	Worksheet 1, Line 20
21	Administrative & General Expense					\$7,272,016	Worksheet 1, Line 21
22	Transmission Support Expense					\$0	Worksheet 6
23	Subtotal (line 20+21+22)					\$14,241,120	
24						0.1250	x 45 / 360
25	Total (line 23 * line 24)					\$1,780,140	

(a) Worksheet 5 Line 11(b) Worksheet 5 Line 3(c) Worksheet 5 Line 16

	Shading denotes an input		-				
Line No.		(1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference for Col (1)
1 2 3	Depreciation Expense Transmission Depreciation General Depreciation	\$37,176,180 \$357,944	99.7856% (a)	\$37,176,180	20.6129% (b) 20.6129% (b)	\$7,663,089 \$73,625 \$7,736,714	FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
4	Amortization of Loss on Reacquired Debt	\$136,332	100.0000%	\$136,332	20.6129% (b) _	\$28,102	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$390,654)	100.0000%	(\$390,654)	20.6129% (b) _	(\$80,525)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$28,674,108	100.0000%	\$28,674,108	20.6129% (b)	\$5,910,565	FERC Form 1 Page 263.10,17,23,28i - Footnote (e)
7 8 9 10 11	<u>Transmission Operation and Maintenance</u> Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) **Station Expenses & Rents - #562 / #567 O&M less lines 8, 9 & 10	\$56,023,206 \$12,561,903 \$9,651,875 \$0 \$33,809,428		\$56,023,206 \$12,561,903 \$9,651,875 \$33,809,428	20.6129% (b) 20.6129% (b) 20.6129% (b) 20.6129% (b)	\$11,548,007 \$2,589,372 \$1,989,531 \$0 \$6,969,104	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15 16	Transmission Administrative and General Total Administrative and General Less: Properly Insurance (1924) Less: Regulatory Commission Expenses (1928) Less: General Adventising Expense (1930.1) Subtotal [line 12 minus (13 thru 15)]	\$36,456,496 \$113,624 \$3,645,548 \$0 \$32,697,324	99.7856% (a)	\$32,627,221	20.6129% (b)	\$6,725,416	FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b
17	Plus: Property Insurance Allocated using Plant Allocation	\$113,624	99.2978% (c)	\$112,826	20.6129% (b)	\$23,257	Line 13
18	Plus: Regulatory Commission Expense	\$2,502,632	99.2978% (c)	\$2,485,059	20.6129% (b)	\$512,243	Attachment 5 Line 6
19 20	Plus: Specifically identified Trans. Related General Advertising Expense	\$0 \$53,850		\$0 \$53,850	20.6129% (b) 20.6129% (b)	\$0 \$11,100	Line 15 FERC Form 1 Page 350.10c
20	Plus: Specifically identified Trans. Related Regulatory Expense Total A&G [line 16 + (17 thru 20)]	\$35,367,430		\$35,278,956	20.0129% (D)	\$7,272,016	FERG FOITH I Page 350.100
22	Payroll Tax Expense	\$1,602,581	99.7856% (a)	\$1,599,145	20.6129% (b)	\$329,630	FERC Form 1 Page 263.3,4i - Footnote (d)
((d) <u>Payroll taxes</u> - G/L 408.1		(e)	Property Taxes FI	-1, Page 263i		
	Federal Unemployment FICA Payroll Taxes State Unemployment Total	\$0 \$0 \$1,602,581 \$0 \$1,602,581		Massachusetts New Hampshire Vermont Maine Rhode Island Connecticut	\$24,657,699 \$2,788,702 \$1,080,853 \$0 \$146,854 \$0 \$28,674,108		FERC Form 1 Page 263.10(i) FERC Form 1 Page 263.17(i) FERC Form 1 Page 263.23(i) n/a FERC Form 1 Page 263.28(i) & 35(i) FERC Form 1 Page 263.31(i)

New England Power Company

(a) Worksheet 5 Line 11
(b) Worksheet 5 Line 3
(c) Worksheet 5 Line 16
(d) Transmission Only - Payroll Taxes - Specifically identified in FERC Form 1
(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1	PTF Transmission Investment	\$352,959,991	Attachment 1, Page 1
2		\$1,712,325,359	FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	20.6129%	
	Transmission Wages and Salaries Allocation Factor		
4	Direct Transmission Wages and Salaries	\$0	FERC Form 1 Page 354.14b
5	Affiliated Company Transmission Wages and Salaries	\$18,493,757	General Ledger Query
6	Total Transmission Wages and Salaries (Line 4 + Line 5)	\$18,493,757	
7	Total Wages and Salaries	\$0	FERC Form 1 Page 354.28b
8	Administrative and General Wages and Salaries	\$0	FERC Form 1 Page 354.27b
9	Affiliated Company Wages and Salaries less A&G	\$18,533,501	General Ledger Query
10	Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$18,533,501	
11	Percent Allocation (Line 6/Line 10)	99.7856%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,712,325,359	Line 2
13	plus Transmission-Related General Plant	\$6,382,481	Worksheet 3, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,718,707,840	
15	Total Plant in Service	\$1,730,862,090	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2978%	

New England Power Company Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2012

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			ΤΟΤΑ	L.
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses
			(a)	(b)
NSTAR	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$99,271
	Bell Rock Road	Page 330.5 Line 12 Col (n)	\$44,768	
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrook	Page 330.1 Line 8 Col (n)	\$366,468	
NU	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5 Col (n)	\$13,571	
NEP	Chester SVC	Transmission Billing		\$603,873
	HQ Phase II - AC in MA	Page 330 Line 11 Col (n)	\$4,946,997	
VT Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12 Col (n)	\$35,824	
		Totals	\$5,407,628	\$703,144

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 22, Column 5)

\$0

New England Power Company 2012 Informational Filing PTF Plant Allocation

			_	Percent Pre/Post
1	2011	Pre-1997 PTF Transmission Plant	\$349,334,382	
2	2011	Post-1996 PTF Transmission Plant	\$819,449,952	
3	2012	Additions/Retirements	\$102,191,455	
4	2012	Pre-1997 PTF Transmission Plant	\$352,959,991	27.77%
5	2012	Post-1996 PTF Transmission Plant	\$918,015,798	72.23%
6	2012	Total PTF Transmission Plant	\$1,270,975,789	100.00%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5

GROSS PLANT ASSOC. WITH HVDC LEASES 2012

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$14,952,279
2 3 4	<u>Allocation</u> Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	224 253 89%
5	Total Gross Plant leased by NHH (a)	\$13,307,528
6	Total Land from Sandy Pond to New Hampshire	\$1,106,146
7	HVDC lines occupy 35% of Right of Way	35%
8	Total Land leased by NEH (a)	\$387,151
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$13,694,679
<u>Sourc</u> 1 2	ee: FERC Form 1, Page 422.1-423.1, Lines 5 + 16 col (I) Total miles used per lease agreement	

- 2 Total miles used per lease agreement
- 3 FERC Form 1, Page 422.1 Lines 5 + 16 col (f)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15 col (j)
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2012</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,346,360
2	Less: Specifically Identified Transmission-Related	
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission	\$9,777
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission 2009 Transmission	\$57,508 \$98,437
	2009 Transmission 2010 Transmission	\$79,948
	2010 Transmission	\$155,706
	2012 Transmission	\$210,246
		\$958,985
		4000 ,000
3	Total Unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.2978%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,655
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	\$958,985
7	Total Transmission-Related Equity AFUDC	\$1,343,640
		· · ·
8	Pre-97 PTF Allocation Factor	20.6129%
9	Transmission-Related Equity AFUDC	\$276,963

Sources:

1 & 2 Transmission Rates includes \$9,777 from Montaup

- 3 Line 1 Line 2
- 4 Worksheet 5 PTF Plant Allocation Factor
- 5 Line 3 * Line 4
- 6 Line 2
- 7 Line 5 + Line 6
- 8 Worksheet 5 Pre-97 PTF Allocation Factor
- 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

			Narragansett <u>2012</u>	MECO <u>2012</u>
1	Total Integrated Facilities Charges		\$77,884,781	\$9,279,091
2 3 4	Total 2012 PTF Property Total Transmission Plant in 2012 NECO or MECO PTF Plant Allocator	(NECO includes \$88M topside) (NECO includes \$88M topside)	\$386,991,881 \$486,729,573 79.51%	\$24,868,977 \$47,856,277 51.97%
5	PTF Related Integrated Facilities Char	ge	\$61,925,101	\$4,821,969
6	Total Integrated Facilities		-	\$66,747,070
<u>Source</u>	<u>»:</u>		-	

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2012 Regulatory Commission Expense

Line <u>No.</u>		<u>2012</u>	Source
1	Total Regulatory Commission Expense - NEP	\$3,645,548	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$63,704	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$229,133	FERC Form1 Page 350.8d
5	Less: Utility Expenses	\$850,079	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,502,632	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property

New England Power Company

	<u>2012</u>
Revenues	\$1,129,406
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,129,406
PTF Allocation	20.6129%
Total PTF Revenue	\$232,803

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2012</u>
Revenues	<mark>\$1,056,174</mark>
Pre-97 PTF Percent	27.7708%
Total Pre-97 PTF Revenue	\$ 293,308

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Submitted on:				
Revenue Requirements for (year):		Calend	lar Year 2012	
Rates Effective for the Period: Through:			ine 2013 ay 2014	_
Customer:	New England Po	wer Compa	ny	
Customer's NABs Number:				
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:				
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$118,127,016 (a	a)	\$141,430,997	(f)
Total of Attachment F - Section J - Support Revenue	\$5,407,628 (t	b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$703,144 (0	c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$526,111) (a	d)	(\$1,368,365)	()
Sub Total - Sum (A through I) - J + K + (L through O)	\$112,896,422 (e	e)=(a)-(b)+(c)+(d)	\$140,062,632	(j)
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A		\$52,042,711	(k)
Annual True-up (per Attachment C to Attachment F Implementation Rule)	N/A _())	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$112,896,422 (r	n)=(e)+(l)	\$192,105,342	_(0)=(j)+(k)+
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest)			\$305,001,764	(p) = (n) +

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2012

POST-1996

		<u> </u>	031-1990		
	Sha	ding denotes an input			
		-	Attachment F		
	I.	INVESTMENT BASE	Reference	NEP	Reference
Line No.			Section:		
1	-	Transmission Plant	(A)(1)(a)	\$918,015,798	Worksheet 5, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$3,421,788	Worksheet 5, line 3 column 5
3		Plant Held For Future Use	(A)(1)(C)	\$551,011	Worksheet 5, line 5 column 5
4		Total Plant (Lines 1+2+3)	(A)(1)(0)	\$921,988,597	Worksheet 5, line 5 column 5
4		Total Flam (Lines 1+2+3)		\$921,900,097	
5		Accumulated Depreciation	(A)(1)(d)	(\$201,785,268)	Worksheet 5, line 8 column 5
6		Accumulated Depredation	(A)(1)(d) (A)(1)(e)	(\$210,488,062)	Worksheet 5, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(8) (A)(1)(f)	\$151,668	Worksheet 5, line 12 column 5
8		Other Regulatory Assets		\$24,851,635	Worksheet 5, line 12 column 5 Worksheet 5, line 16 column 5
o 9			(A)(1)(g)	\$534.718.570	WORKSHEELS, IIITE TO COUTHITS
9		Net Investment (Line 4+5+6+7+8)		\$534,718,570	
10		Prepayments	(A)(1)(h)	\$0	Worksheet 5, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$2,621,268	Worksheet 5, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$4,629,975	Worksheet 5, line 25 column 5
13		NEEWS CWIP	(A)(1)(k)	\$14,550,755	Worksheet 5, line 26 column 5
14		Total Investment Base (Line 9+10+11+12+13)		\$556,520,569	
14		Total investment base (Line 3+10+11+12+13)		\$550,520,505	
	П.	REVENUE REQUIREMENTS			
15		Investment Return and Income Taxes	(A)	\$68,174,926	Worksheet 3
16		Depreciation Expense	(B)	\$20,122,458	Worksheet 6, line 3, column 5
17		Amortization of Loss on Reacquired Debt	(C)	\$73,091	Worksheet 6, line 4, column 5
18		Investment Tax Credit	(D)	(\$209,438)	Worksheet 6, line 5, column 5
19		Property Tax Expense	(E)	\$15,372,820	Worksheet 6, line 6, column 5
20		Payroll Tax Expense	(E) (F)	\$857,337	Worksheet 6, line 22, column 5
20		Operation & Maintenance Expense	(G)	\$18,125,978	Worksheet 6, line 11, column 5
22		Administrative & General Expense	(U) (H)	\$18,913,825	Worksheet 6, line 21, column 5
22		Transmission Related Integrated Facilities Charge	(1)	\$0	Attachment 4, line 6
23		Transmission Support Revenue	(I) (J)	\$0 \$0	Worksheet 8
24 25				\$0 \$0	
25 26		Transmission Support Expense	(K)	\$0 \$0	Worksheet 8
		Transmission Related Expense from Generators	(L)	+ -	
27		Transmission Related Taxes and Fees Charge	(M)	\$0	Atta a base and 7
28		Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$762,866)	Attachment 7
29		Transmission Rents Received from Electric Property	(O)	(\$605,499)	Attachment 6
30		Total Revenue Requirements (Line 14 thru 28)		\$140,062,632	

New England Power Company Post 1996 Regional Network Service Revenue Requirement For Test Year Ended 12/31/2012

Line No.	Description	Attachment F Reference	Forecasted Amount \$	Reference
1	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA)	Reference	\$ 52,194,758	Line 6
2	Forecasted Revenue Requirements for Forecasted Transmission Flain Additions (FTFA)		\$152,047	Line 9
3	Forecasted Transmission Revenue Requirements		\$ 52,042,711	Line 1 + Line 2
0			<i>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </i>	
4	Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA)	Appendix C iv	\$347,591,621	Project Detail
5	Carrying Charge Factor (CCF)	Appendix C vi	15.01612%	Line 20
6	Forecasted Revenue Requirements for FTPA		\$ 52,194,758	Line 4 * Line 5
7	Forecasted New England Power Company (NEP) NEEWS CWIP (FNCWIP)	Appendix C xiii	\$ (1,248,323)	Project Detail
8	NEEWS NEP Cost of Capital Rate (NCOC)	Appendix C xiv	12.18014%	Workpaper 4
9	Forecasted Revenue Requirements for FNCWIP		\$ (152,047)	Line 7 * Line 8
	Derivation of Carrying Charge (CCF)			
10	Investment Return and Income Taxes	(A)	\$64,594,239	Summary, Line 14
11	Depreciation Expense	(B)	20,122,458	Summary, Line 15
12	Amortization of Loss on Reacquired Debt	(C)	73,091	Summary, Line 16
13	Investment Tax Credit	(D)	(209,438)	Summary, Line 17
14	Property Tax Expense	(E)	15,372,820	Summary, Line 18
15	Payroll Tax Expense	(F)	857,337	Summary, Line 19
16	Operation & Maintenance Expense	(G)	18,125,978	Summary, Line 20
17	Administrative & General Expense	(H)	18,913,825	Summary, Line 21
18	Total Expenses (Lines 10 thru 17)		\$137,850,309	
19	PTF Transmission Plant	(A)(1)(a)	\$918,015,798	Summary, Line 1
20	Carrying Charge Factor (FTPA)		15.01612%	Line 18 / Line 19

New England Power Company Annual Revenue Requirements For Costs in 2012

Shading denotes an input

	CAPITALIZATION 12/31/2012	CAPITALIZATION RATIOS	COST OF CAPITAL	COST OF CAPITAL	EQUITY PORTION
LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY	\$ 410,350,000 \$ 1,111,700 \$ 735,600,299	35.77% 0.10% 64.13%	0.65% 6.02% 11.07%	0.23% 0.01% 7.10%	0.01% 7.10%
TOTAL INVESTMENT RETURN	\$1,147,061,999	100.00%		7.34%	7.11%

Cost of Capital Rate=

(a) Weighted Cost of Capital	=	0.0734	
			PTF Inv. Eq. AFUDC
(b) Federal Income Tax	= ((((Tax Credit + of Deprec. Exp.) / PTF Inv. Base) x Federal Income Tax Rate) - Federal Income Tax Rate)
	= (0.0711	+((\$209,438) + \$720,355) / \$556,520,569) x 0.35)
	- ((1	- 0.35)
	=	0.0387790	
			PTF Inv. Eq. AFUDC
(c) State Income Tax	= (R.O.E. +	((Tax Credit + of Deprec. Exp.) / PTF Inv. Base) + Federal Income Tax)* State Income Tax Rate
		(1	- State Income Tax Rate)
	= (0.0711	+((\$209,438) + \$720,355) / \$556,520,569) + 0.0387790)* 0.059466 - 0.059466)
		· ·	
	=	0.0070052	
(a) (b) (a) Cost of Copital Pata		0 1101942	
(a)+(b)+(c) Cost of Capital Rate	=	0.1191842	
		(PTF)	
INVESTMENT BASE		\$556,520,569	From Worksheet 1
x Cost of Capital Rate		0.1191842	
= Investment Return and Income Taxes		\$66,328,459	To Worksheet 1
INVESTMENT BASE (Excluding NEEW	S CWIP)	\$541,969,813	From Worksheet 1
x Cost of Capital Rate		0.1191842	
= Investment Return and Income Taxes		\$64,594,239	To Worksheet 2
Post 2003 PTF Investment Base w/ In Plant In-Service Accumulated Depreciation Accumulate Deferred Income Taxes Total Post-2003 Investment	cremental 100 bps	213,518,137 (46,296,429) (48,612,947) \$ 118,608,761	From Attachment 1 From Worksheets 5 & 7 From Worksheets 5 & 7 Calculated
Incremental ROE:	1.00	% 0.00641	Calculated
Federal Income Taxes:		0.00345	Per Attachment F
State Income Taxes: Cost of Capital Rate		0.00062	Per Attachment F
Incremental Return and Taxes on Post-	2003 PTF Investme	nt \$ 1,244,200	
	E hann		
New England Power NEEWS In-Service		\$ 56,490,343	PowerPlant PTF 4 & 5 reports - PTF only
Accumulated Depreciation Accumulate Deferred Income Taxes		(12,248,613) (12,861,493)	From Worksheets 3 & 5 From Worksheets 3 & 5
Total New England Power NEEWS In	vestment	\$ 31,380,236	Calculated
Incremental ROE:	1.25		Calculated
Federal Income Taxes: State Income Taxes:		0.00432 0.00078	Per Attachment F Per Attachment F
Cost of Capital Rate		0.01311	
Incremental Return and Taxes on NEE	VS PTF Investment	\$ 411,471	
[
NEEWS Allocation Factor			
Total Transmission Investment Total NEEWS In-Service - NEF		\$1,712,325,359 \$56,490,343	Worksheet 7 Line 2 Plant Accounting Records
For Accumulated Depreciation		3.2990%	
NEEWS Allocation Factor		3.2990%	
Plant Allocation Factor	-	0.992978	Worksheet 7 Line 16
For Accumulated Deferred Inco	ome Laxes	3.2759%	
l			1

New England Power Company Annual Revenue Requirements For Costs in 2012

	LONG-TERM DEBT S PREFERED STOCK S COMMON EQUITY S	PITALIZATION 12/31/2012 CAPITALIZATION RATIOS COST OF CAPITAL COST OF CAPITAL EQUITY CAPITAL 410,350,000 1,111,700 735,600,299 35,77% 0.10% 0.65% 6.02% 0.23% 0.01% 0.01% 7.26% \$1,117,700 735,600,299 0.10% 64.13% 11.32% 7.26% 7.26% \$1,147,061,999 100.00% 7.50% 7.27%
Cost of Capital Rate=		
(a) Weighted Cost of Capital	= 0.0750	
(b) Federal Income Tax	PTF Inv. Eq. AFUDC = (TF Inv. Base) x Federal Income Tax Rate) - Federal Income Tax Rate)
	= (3556,520,569) x 0.35)
	(1 =0.0396405	- 0.35)
	PTF Inv. Eq. AFUDC	
(c) State Income Tax	= (R.O.E. + ((Tax Credit + of Deprec. Exp.) / PT (1	TF Inv. Base) + Federal Income Tax)* State Income Tax Rate - State Income Tax Rate)
	= (0.0727 +((\$209,438) + \$720,355) / \$8	5556,520,569) + 0.0396405)* 0.059466 - 0.059466)
	= 0.0071609	
(a)+(b)+(c) Cost of Capital Rate	=	

PTF Revenue Requirements Worksheet 3 of 6

Shading denotes an input

New England Power Company

	Shading denotes an input		(2)		(4)		
			Wage/Plant	(3) = (1)*(2)	PTF	$(5) = (3)^*(4)$	
Line No.		(1) Total	Allocation Factors	Transmission Allocated	Allocation Factor (b)	PTF Allocated	Source Reference for Col (1)
1	Transmission Plant					\$918,015,798	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases General Plant	\$ 6,396,194	99.7856% (a)	CODO 404	53.6122% (b)	\$0 \$3,421,788	Attachment 2
3 4	Total (line 1+2+ 3)	\$ 6,396,194	99.7856% (a)	\$6,382,481 \$6,382,481	53.6122% (D)	\$921,437,586	FERC Form 1 page 207.99g
4	Total (inte 1+2+3)			φ0,302,401	=	\$921,437,300	
5	Transmission Plant Held for Future Use	\$ 1,027,771		\$1,027,771	53.6122% (b)_	\$551,011	FERC Form 1 page 214.2d,4d,9d
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	\$ (371,277,823)		(\$371,277,823)	53.6122% (b)	(\$199,050,209)	FERC Form 1 page 219.25b
7	General Plant Accumulated Depreciation	\$ (5,112,522)	99.7856% (a)		53.6122% (b)	(\$2,735,059)	FERC Form 1 Page 219.28b
8	Total (line 6+ 7)			(\$376,379,384)	-	(\$201,785,268)	
	Transmission Accumulated Deferred Taxes						
9	Accumulated Deferred Taxes (281-283)	\$ (508,206,767)		(\$504,638,139)	53.6122% (b)	(\$270,547,608)	FERC Form 1 page 113.62-64
10	Accumulated Deferred Taxes (190)	\$ 112,818,102	99.2978% (c)	\$112,025,893	53.6122% (b)	\$60,059,546	FERC Form 1 page 111.82
11	Total (line 9+ 10)			(\$392,612,246)	=	(\$210,488,062)	
12	Transmission Loss on Reacquired Debt	\$ 282,898	100.0000%	\$282,898	53.6122% (b)_	\$151,668	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$-	99.7856% (a)		53.6122% (b)	\$0	FERC Form 1 Page 232.8f
14	FAS 109 (Asset Account 182.3)	\$ 46,354,440	100.0000%	\$46,354,440	53.6122% (b)	\$24,851,635	FERC Form 1 Page 232.6f
15 16	FAS 109 (Liability Account 254) Total (line 13+14+ 15)	\$- \$46,354,440	100.0000%	\$0 \$46,354,440	53.6122% (b)	\$0 \$24.851.635	FERC Form 1 Page 278
10	10tal (inte 13+14+13)	\$40,334,440		\$40,334,440	=	\$24,001,000	
17	Transmission Prepayments	\$-	99.7856% (a)	\$0	53.6122% (b)_	\$0	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$ 4,889,313		\$4,889,313	53.6122% (b)_	\$2,621,268	FERC Form 1 Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$18,125,978	Worksheet 1, Line 20
21	Administrative & General Expense					\$18,913,825	Worksheet 1, Line 21
22	Transmission Support Expense				-	\$0	Worksheet 8
23 24	Subtotal (line 20+21+22)					\$37,039,803 0,1250	x 45 / 360
24 25	Total (line 23 * line 24)				-	\$4,629,975	x 45 / 300
20	1 Utar (1118 23 1118 24)				=	\$4,029,975	
26	NEEWS CWIP	\$ 14,550,755			=	\$14,550,755	Plant Accounting Records

(a) Worksheet 7 Line 11 (b) Worksheet 7 Line 3 (c) Worksheet 7 Line 16

PTF Revenue Requirements Worksheet 4 of 6

Shading denotes an input

New England Power Company

Line No. 1 2 3	Depreciation Expense Transmission Depreciation General Depreciation Total (line 1+2)	(1) Total (g) \$37,176,180 \$357,944	Wage/Plant Allocation Factors 99.7856% (a)	(3) = (1)*(2) Transmission Allocated \$37,176,180 \$357,177 \$37,533,357	PTF Allocation Factor (b) 53.6122% 53.6122%	(5) = (3)*(4) PTF Allocated \$19,930,968 \$191,490 \$20,122,458	Source Reference for Col (1) FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
4	Amortization of Loss on Reacquired Debt	\$136,332		\$136,332	53.6122%	\$73,091	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$390,654)		(\$390,654)	53.6122%	(\$209,438)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$28,674,108		\$28,674,108	53.6122%	\$15,372,820	FERC Form 1 Page 263.10,17,23,28,31i - Footnote (e)
7 8 9 10 ** 11	<u>Transmission Operation and Maintenance</u> Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) * Station Expenses & Rents - #562 & #567 O&M less lines 8, 9 & 10	\$56,023,206 \$12,561,903 \$9,651,875 \$0 \$33,809,428		\$56,023,206 \$12,561,903 \$9,651,875 \$33,809,428	53.6122% 53.6122% 53.6122% 53.6122%	\$30,035,273 \$6,734,712 \$5,174,583 \$0 \$18,125,978	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15 16 17 18 19 20 21	Transmission Administrative and General Total Administrative and General Less: Property Insurance (#924) Less: Regulatory Commission Expenses (#928) Less: General Advertising Expenses (#928) Less: General Advertising Expenses (#928) Less: Regulatory Commission Expenses Plus: Property Insurance Allocated using Pant Allocatior Pus: Regulatory Commission Expense Plus: Specifically identified Trans. Related General Advertising Expense Puss: Specifically identified Trans. Related Regulatory Expense Total A&G [line 16 + (17 thru 20)]	\$36,456,496 \$113,624 \$3,645,548 \$32,697,324 \$113,624 \$2,502,632 \$0 \$53,850 \$35,367,430	99.7856% (a) 99.2978% (c) 99.2978% (c)	\$32,627,221 \$112,826 \$2,485,059 \$0 \$53,850 \$35,278,956	53.6122% 53.6122% 53.6122% 53.6122% 53.6122%	\$17,492,171 \$60,489 \$1,332,295 \$0 \$28,870 \$18,913,825	FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b Line 13 Attachment 5 Line 6 Line 15 FERC Form 1 Page 350.18c
22	Payroll Tax Expense	\$1,602,581	99.7856% (a)	\$1,599,145	53.6122%	\$857,337	FERC Form 1 Page 263.3,4i - Footnote (d)
(c	i) <u>Payroll taxes - G/L 408.1</u> Federal Unemployment FICA Payroll Taxes State Unemployment Total	\$0 \$0 \$1,602,581 \$0 \$1,602,581	Line 4(i) Line 3(i) Line 9 (i)	Property Taxes F Massachusetts New Hampshire Vermont Maine Rhode Island Connecticut	F1, Page 263i \$24,657,699 \$2,788,702 \$1,080,853 \$0 \$146,854 \$0 \$28,674,108		Property Taxes FERC Form 1 Page 263.10(i) FERC Form 1 Page 263.17(i) FERC Form 1 Page 263.23(i) n/a FERC Form 1 Page 263.28(i) & 35(i) FERC Form 1 Page 263.31(i)

(a) Worksheet 7, Line 11
(b) Worksheet 7, Line 3
(c) Worksheet 7, Line 16
(d) Transmission Only - Payroll Taxes - Specifically identified in FERC Form 1
(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1	PTF Transmission Investment	\$918,015,798	Attachment 1, Page 1
2	Total Transmission Investment	\$1,712,325,359	FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	53.6122%	
	Transmission Wages and Salaries Allocation Factor		
4	Direct Transmission Wages and Salaries	\$0	FERC Form 1 Page 354.14b
5	Affiliated Company Transmission Wages and Salaries	\$18,493,757	General Ledger Query
6	Total Transmission Wages and Salaries (Line 4 + Line 5)	\$18,493,757	
7	Total Wages and Salaries	\$0	FERC Form 1 Page 354.28b
8	Administrative and General Wages and Salaries	\$0	FERC Form 1 Page 354.27b
9	Affiliated Company Wages and Salaries less A&G	\$18,533,501	General Ledger Query
10	Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	\$18,533,501	
11	Percent Allocation (Line 6/Line 10)	99.7856%	
	Plant Allocation Factor		
12	Total Transmission Investment	\$1,712,325,359	Line 2
13	plus Transmission-Related General Plant (Line 2 of Wkst. 3)	\$6,382,481	Worksheet 5, Line 3, Column 3
14	= Revised Numerator (Line 12 + Line 13)	\$1,718,707,840	
15	Total Plant in Service	\$1,730,862,090	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2978%	
	Post-2003 PTF Allocation Factor		
17	Total Post-2003 PTF Investment	\$ 213,518,137	Attachment 1 Line 7
18	Total Transmission Investment	\$1,712,325,359	Line 2
19	Percent Allocation (Line 17/Line 18) for Post-2003 to Total Tx	12.4695%	
20	Total Invst in Tx Plant/Total Plant in Serv *		
21	Post-2003 PTF Tx Plant/Total Invst in Tx Plant	12.3819%	Line 19 * Line 16

New England Power Company Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2012

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			тот	AL
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses
			(a)	(b)
NSTAR	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$0
	Bell Rock Road	Page 330.5 Line 12 Col (n)	\$0	
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabroo	Page 330.1 Line 8 Col (n)	\$0	
NU	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5 Col (n)	\$0	
NEP	Chester SVC	Transmission Billing		\$C
	HQ Phase II - AC in MA	Page 330 Line 11 Col (n)	\$0	
VT Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12 Col (n)	\$0	
		Totals	\$0	\$0

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 22, Column 5)

\$0

New England Power Company 2012 Informational Filing PTF Plant Allocation

			Total_	Percent Pre/Post
1	2011	Pre-1997 PTF Transmission Plant	\$349,334,382	
2	2011	Post-1996 PTF Transmission Plant	\$819,449,952	
3	2012	Additions/Retirements	\$103,978,575	
4	2012	Pre-1997 PTF Transmission Plant	\$352,959,991	27.77%
5	2012	Post-1996 PTF Transmission Plant	\$918,015,798	72.23%
6	2012	Total PTF Transmission Plant	\$1,270,975,789	100.00%
7	2012	Post-2003 PTF Transmission Plant	\$213,518,137	172.23%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5
- 7 PTF Plant Report: Post 2003 RSP Projects

GROSS PLANT ASSOC. WITH HVDC LEASES 2012

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$0
2 3 4	Allocation Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	0 0 0%
5	Total Gross Plant leased by NHH (a)	\$0
6	Total Land from Sandy Pond to New Hampshire	\$0
7	HVDC lines occupy 35% of Right of Way	0%
8	Total Land leased by NEH (a)	\$0
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$0

Source:

- 1 FERC Form 1, Page 423.1, Lines 5 + 16
- 2 Total miles used per lease agreement
- 3 Total miles per lease agreement
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2012</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,346,360
2	Less: Specifically identified Transmission-Related	
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission	\$9,777
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission 2007 Transmission	\$64,352 \$42,418
	2007 Transmission 2008 Transmission	\$57,508
	2009 Transmission	\$98,437
	2010 Transmission	\$79,948
	2011 Transmission	\$155,706
	2012 Transmission	\$210,246
		\$958,985
		+ ,
3	Total unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.2978%
5 6 7	Allocated Transmission Related Book Depreciation on Equity AFUDC Plus: Specifically Identified Transmission-Related Equity AFUDC Total Transmission-Related Equity AFUDC	\$384,655 <u>\$958,985</u> \$1,343,640
8 9	Post-96 PTF Allocation Factor Transmission-Related Equity AFUDC	53.6122% \$720,355

Sources:

- 1 & 2 Transmission Rates includes \$9,777 from Montaup
 - 3 Line 1 Line 2
 - 4 Worksheet 5 PTF Plant Allocation Factor
 - 5 Line 3 * Line 4
 - 6 Line 2
 - 7 Line 5 + Line 6
 - 8 Worksheet 6 Post-96 PTF Allocation Factor
 - 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

		Narragansett <u>2012</u>	MECO <u>2012</u>
1	Total Integrated Facilities Charges	\$0	\$0
2	Total 2012 PTF Property	\$0	\$0
3	Total Transmission Plant in 2012	\$0	\$0
4	NECO or MECO PTF Plant Allocator	0.00%	0.00%
5	PTF Related Integrated Facilities Charge	\$0	\$0
6	Total Integrated Facilities	=	\$0

Source:

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2012 Regulatory Commission Expense

Line <u>No.</u>		<u>2012</u>	Source
1	Total Regulatory Commission Expense - NEP	\$3,645,548	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$63,704	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$229,133	FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$850,079</mark>	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,502,632	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property

New England Power Company

	<u>2012</u>
Revenues	<mark>\$1,129,406</mark>
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,129,406
PTF Allocation	53.6122%
Total PTF Revenue	\$605,499

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

	<u>2012</u>
Revenues	\$1,056,174
Post-96 PTF Percent	72.2292%
Total Post-96 PTF Revenue	\$762,866

Source: Short Term Through and Out Revenues from ISO New England

ISO Tariff Billing ISO Annual Transmission Revenue Requirements per Tariff Attachment F and ISO Agreement Part 2, Section 6.3

Submitted on:				
Revenue Requirements for (year):		Calen	dar Year 2012	
Rates Effective for the Period: Through:	-	une 2013 May 2014	_	
Customer:	New England P	ower Compa	any	
Customer's NABs Number:				
Name of Participant responsible for customer's billing:				
DUNs number of Participant responsible for customer's billing:	l			
	Pre-97 Revenue <u>Requirements</u>		Post-96 Revenue <u>Requirements</u>	
Total of Attachment F - Sections A through I	\$118,127,016	(a)	\$141,430,997	(f)
Total of Attachment F - Section J - Support Revenue	\$5,407,628	(b)	\$0	(g)
Total of Attachment F - Section K - Support Expense	\$703,144	(c)	\$0	(h)
Total of Attachment F - Section (L through O)	(\$526,111)	(d)	(\$1,368,365)	(i)
Sub Total - Sum (A through I) - J + K + (L through O)	\$112,896,422	(e)=(a)-(b)+(c)+(d)	\$140,062,632	()
Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)	N/A		\$52,042,711	(k)
Annual True-up (per Attachment C to Attachment F Im[plementation Rule)	N/A	(1)	N/A	(m)
Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)	\$112,896,422	(n)=(e) + (l)	\$192,105,342	(0)=(j)+(l
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirement and Post-96 Revenue Requirements Subtotals for rate calculations under			\$305,001,764	(p) = (n)

New England Power Company Annual Revenue Requirements of PTF Facilities For Costs in 2012

PRE-1997

			-1557		
	Sha	ading denotes an input			
			Attachment F		
	Ι.	INVESTMENT BASE	Reference	NEP	Reference
Line No.			Section:		
1	_	Transmission Plant	(A)(1)(a)	\$339,265,312	Worksheet 3, line 1&2 column 5
2		General Plant	(A)(1)(b)	\$1,315,614	Worksheet 3, line 3 column 5
3		Plant Held For Future Use	(A)(1)(c)	\$211,853	Worksheet 3, line 5 column 5
4		Total Plant (Lines 1+2+3)		\$340,792,779	
				+	
5		Accumulated Depreciation	(A)(1)(d)	(\$77,582,706)	Worksheet 3, line 8 column 5
6		Accumulated Deferred Income Taxes	(A)(1)(e)	(\$80,928,770)	Worksheet 3, line 11 column 5
7		Loss On Reacquired Debt	(A)(1)(f)	\$58,313	Worksheet 3, line 12 column 5
8		Other Regulatory Assets	(A)(1)(g)	\$9,554,994	Worksheet 3, line 16 column 5
9		Net Investment (Line 4+5+6+7+8)	(**)(**)(9)	\$191,894,610	
Ū				¢.0.,00.,010	
10		Prepayments	(A)(1)(h)	\$0	Worksheet 3, line 17 column 5
11		Materials & Supplies	(A)(1)(i)	\$1,007,829	Worksheet 3, line 18 column 5
12		Cash Working Capital	(A)(1)(j)	\$1,780,140	Worksheet 3, line 25 column 5
			(**/(*/1)	÷.,	
13		Total Investment Base (Line 9+10+11+12)		\$194,682,579	
	II.	REVENUE REQUIREMENTS			
14		Investment Return and Income Taxes	(A)	\$23,214,340	Worksheet 2
15		Depreciation Expense	(B)	\$7,736,714	Worksheet 4, line 3, column 5
16		Amortization of Loss on Reacquired Debt	(C)	\$28,102	Worksheet 4, line 4, column 5
17		Investment Tax Credit	(D)	(\$80,525)	Worksheet 4, line 5, column 5
18		Property Tax Expense	(E)	\$5,910,565	Worksheet 4, line 6, column 5
10		Payroll Tax Expense	(E) (F)	\$329,630	Worksheet 4, line 22, column 5
20		Operation & Maintenance Expense	(F) (G)	\$6,969,104	Worksheet 4, line 11, column 5
20		Administrative & General Expense	(G) (H)	\$7,272,016	Worksheet 4, line 21, column 5
21					
22		Transmission Related Integrated Facilities Charge	(1)	\$66,747,070 (\$5,407,628)	Attachment 4, line 6 Worksheet 6
		Transmission Support Revenue	(J)	(\$5,407,628)	
24		Transmission Support Expense	(K)	\$703,144	Worksheet 6
25		Transmission Related Expense from Generators	(L)	\$0 \$0	Worksheet 7
26		Transmission Related Taxes and Fees Charge	(M)	\$0	
27		Revenue for ST Trans. Service Under NEPOOL Tariff	(N)	(\$293,308)	Attachment 7
28		Transmission Rents Received from Electric Property	(O)	(\$232,803)	Attachment 6

\$112,896,422

29 Total Revenue Requirements (Line 14 thru 28)

New England Power Company Annual Revenue Requirements For Costs in 2012

Shading denotes an input

	CAPITALIZATION 12/31/2012		CAPITALIZATION RATIOS	COST OF CAPITAL	COST OF CAPITAL	EQUITY PORTION	
LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY	\$ \$ \$	410,350,000 1,111,700 735,600,299	35.77% 0.10% 64.13%	0.65% 6.02% 11.07%	0.23% 0.01% 7.10%	0.01% 7.10%	
TOTAL INVESTMENT RETURN		\$1,147,061,999	100.00%		7.34%	7.11%	

Cost of Capital Rate=

(a) Weighted Cost of Capital	=	0.0734							
(b) Federal Income Tax	= ((PTF Inv. ((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	x -	Federal Income Tax Rate Federal Income Tax Rate))	
	= ((<u>0.0711</u> + (<u>1</u>	-((\$80,525) +	\$276,963) /	\$194,682,579) x	0.35 0.35))	
	=	0.0388279	PTF Inv.						
(c) State Income Tax	= ((<u>R.O.E. +</u> (<u>1</u>	((Tax Credit +	Eq. AFUDC of Deprec. Exp.) /	PTF Inv. Base)	+	Federal Income Tax State Income Tax Rate)*	State Income Tax Rate
	= ((<u>0.0711</u> +	·((\$80,525) +	\$276,963) /	\$194,682,579) +	0.0388279 0.059466)*	0.059466
	=	0.0070141							
(a)+(b)+(c) Cost of Capital Rate	=	0.1192420							
		(PTF)							
INVESTMENT BASE		\$194,682,579	From Worksheet 1						
x Cost of Capital Rate		0.1192420							
= Investment Return and Income Taxe	S	\$23,214,340	To Worksheet 1						

PTF Revenue Requirements Worksheet 3 of 6

			New England Pov	wer Company			
	Shading denotes an input						
Line No.		(1) Total	(2) Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	(4) PTF Allocation Factor (b)	(5) = (3)*(4) PTF Allocated	Source Reference
1	Transmission Plant					\$352,959,991	Attachment 1, Page 1
2	Less: Plant Assoc. HVDC Leases					(\$13,694,679)	Attachment 2
3	General Plant	\$ 6,396,194	99.7856% (a)	\$6,382,481	20.6129% (b)		FERC Form 1 Page 207.99g
4	Total (line 1+2+ 3)			\$6,382,481	(-)	\$340,580,926	
5	Transmission Plant Held for Future Use	\$ 1,027,771		\$1,027,771	20.6129% (b)	\$211,853	FERC Form 1 page 214.2d,4d,9d
	Transmission Accumulated Depreciation						
6	Transmission Accumulated Depreciation	\$ (371,277,823)		(\$371,277,823)	20.6129% (b)		FERC Form 1 page 219.25b
7	General Plant Accumulated Depreciation	\$ (5,112,522)	99.7856% (a)		20.6129% (b)	(\$1,051,580)	FERC Form 1 Page 219.28b
8	Total (line 6+ 7)		:	(\$376,379,384)		(\$77,582,706)	
9	Transmission Accumulated Deferred Taxes Accumulated Deferred Taxes (281-283)	\$ (508,206,767)	00.2078% (c)	(\$504,638,139)	20 61209/ (h)	(\$104,020,555)	FERC Form 1 Page 113.62-64
9 10	Accumulated Deferred Taxes (201-203) Accumulated Deferred Taxes (190)	\$ (508,208,787) \$ 112,818,102	()	\$112,025,893	()	\$23,091,785	FERC Form 1 Page 111.82
10	Total (line 9+ 10)	ψ 112,010,102	55.257070 (C)	(\$392,612,246)	20.012070 (b)	(\$80,928,770)	TEROTOIII TT age TT.02
			•				
12	Transmission Loss on Reacquired Debt	\$ 282,898	100.0000%	\$282,898	20.6129% (b)	\$58,313	FERC Form 1 Page 111.81c
	Other Regulatory Assets						
13	FAS 106	\$ -	99.7856% (a)		20.6129% (b)		FERC Form 1 Page 232.8f
14	FAS 109 (Asset Account 182.3)	\$ 46,354,440	100.0000%	\$46,354,440	20.6129% (b)		FERC Form 1 Page 232.6f
15 16	FAS 109 (Liability Account 254) Total (line 13+14+ 15)	\$ <u>-</u> \$46,354,440	100.0000%	\$0 \$46,354,440	20.6129% (b)	\$0 \$9,554,994	FERC Form 1 Page 278
17	Transmission Prepayments	\$-	99.7856% (a)	\$0	20.6129% (b)	\$0	FERC Form 1 Page 111.57c
18	Transmission Materials and Supplies	\$ 4,889,313		\$4,889,313	20.6129% (b)	\$1,007,829	FERC Form 1 Page 227.8c
19	Cash Working Capital						
20	Operation & Maintenance Expense					\$6,969,104	Worksheet 1, Line 20
21	Administrative & General Expense					\$7,272,016	Worksheet 1, Line 21
22	Transmission Support Expense					\$0	Worksheet 6
23 24	Subtotal (line 20+21+22)					\$14,241,120 0.1250	x 45 / 360
24 25	Total (line 23 * line 24)					\$1,780,140	x 40 / 300
20						ψ1,700,140	

New England Power Company

(a) Worksheet 5 Line 11(b) Worksheet 5 Line 3(c) Worksheet 5 Line 16

PTF Revenue Requirements Worksheet 4 of 6

New England Power Company

	a a b b b b b b b b b b		New Engla	a Power Company			
Line	Shading denotes an input	(1)	(2) Wage/Plant Allocation	(3) = (1)*(2) Transmission	(4) PTF Allocation	(5) = (3)*(4) PTF	
No.		Total	Factors	Allocated	Factor (b)	Allocated	Source Reference for Col (1)
1 2 3	Depreciation Expense Transmission Depreciation General Depreciation	\$37,176,180 \$357,944	99.7856% (a)	\$37,176,180 <u>\$357,177</u> \$37,533,357	20.6129% (b) 20.6129% (b) -	\$7,663,089 \$73,625 \$7,736,714	FERC Form 1 Page 336.7b FERC Form 1 Page 336.10b
4	Amortization of Loss on Reacquired Debt	\$136,332	100.0000%	\$136,332	20.6129% (b) _	\$28,102	FERC Form 1 Page 117.64c
5	Amortization of Investment Tax Credits	(\$390,654)	100.0000%	(\$390,654)	20.6129% (b) _	(\$80,525)	FERC Form 1 Page 266.8f - Footnote (f)
6	Property Taxes	\$28,674,108	100.0000%	\$28,674,108	20.6129% (b) _	\$5,910,565	FERC Form 1 Page 263.10,17,23,28i - Footnote (e)
7 8 9 10 11	<u>Transmission Operation and Maintenance</u> Operation and Maintenance Transmission of Electricity by Others - #565 Load Dispatching - #561 (excl #561.3) **Station Expenses & Rents - #562 / #567 O&M less lines 8, 9 & 10	\$56,023,206 \$12,561,903 \$9,651,875 \$0 \$33,809,428		\$56,023,206 \$12,561,903 \$9,651,875 \$33,809,428	20.6129% (b) 20.6129% (b) 20.6129% (b) 20.6129% (b)	\$11,548,007 \$2,589,372 \$1,989,531 \$0 \$6,969,104	FERC Form 1 Page 321.112b FERC Form 1 Page 321.96b FERC Form 1 Page 321.84-92b less 87b FERC Form 1 Page 321.93b & .98b
12 13 14 15 16	Transmission Administrative and General Total Administrative and General Less: Property Insurance (#924) Less: Regulatory Commission Expenses (#928) Less: General Advertising Expense (#930.1) Subtotal [line 12 minus (13 thru 15)]	\$36,456,496 \$113,624 \$3,645,548 \$0 \$32,697,324	99.7856% (a)	\$32,627,221	20.6129% (b)	\$6,725,416	FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b
17	Plus: Property Insurance Allocated using Plant Allocation	\$113,624	99.2978% (c)	\$112,826	20.6129% (b)	\$23,257	Line 13
18	Plus: Regulatory Commission Expense	\$2,502,632	99.2978% (c)	\$2,485,059	20.6129% (b)	\$512,243	Attachment 5 Line 6
19 20	Plus: Specifically identifed Trans. Related General Advertising Expense	\$0 \$52.850		\$0 \$50 850	20.6129% (b)	\$0 \$14,400	Line 15
20 21	Plus: Specifically identified Trans. Related Regulatory Expense Total A&G [line 16 + (17 thru 20)]	\$53,850 \$35,367,430		\$53,850 \$35,278,956	20.6129% (b)	\$11,100 \$7,272,016	FERC Form 1 Page 350.10c
22	Payroll Tax Expense	\$1,602,581	99.7856% (a)	\$1,599,145	20.6129% (b)	\$329,630	FERC Form 1 Page 263.3,4i - Footnote (d)
(d) Payroll taxes - G/L 408.1		(e)	Property Taxes FF	-1, Page 263i		
	Federal Unemployment FICA Payroll Taxes State Unemployment Total	\$0 \$0 \$1,602,581 \$0 \$1,602,581		Massachusetts New Hampshire Vermont Maine Rhode Island Connecticut	\$24,657,699 \$2,788,702 \$1,080,853 \$0 \$146,854 \$0 \$28,674,108		FERC Form 1 Page 263.10(i) FERC Form 1 Page 263.17(i) FERC Form 1 Page 263.23(i) n/a FERC Form 1 Page 263.28(i) & 35(i) FERC Form 1 Page 263.31(i)

(a) Worksheet 5 Line 11

(b) Worksheet 5 Line 3

(c) Worksheet 5 Line 16

(d) Transmission Only - Payroll Taxes - Specifically identified in FERC Form 1

(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1

(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1

** Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

Line No.			Source Reference
	PTF Transmission Plant Allocation Factor	NEP	
1 2	PTF Transmission Investment	\$352,959,991 \$1,712,325,359	Attachment 1, Page 1 FERC Form 1 Page 207.58g - Page 200.4b
3	Percent Allocation (Line 1/Line 2)	20.6129%	
	Transmission Wages and Salaries Allocation Factor		
4 5 6	Direct Transmission Wages and Salaries Affiliated Company Transmission Wages and Salaries Total Transmission Wages and Salaries (Line 4 + Line 5)	\$0 <u>\$18,493,757</u> \$18,493,757	FERC Form 1 Page 354.14b General Ledger Query
7 8 9 10 11	Total Wages and Salaries Administrative and General Wages and Salaries Affiliated Company Wages and Salaries less A&G Total Wages and Salaries net of A&G (Line 7 - 8 + 9) Percent Allocation (Line 6/Line 10)	\$0 \$0 <u>\$18,533,501</u> \$18,533,501 99.7856%	FERC Form 1 Page 354.28b FERC Form 1 Page 354.27b General Ledger Query
12 13 14	<u>Plant Allocation Factor</u> Total Transmission Investment plus Transmission-Related General Plant = Revised Numerator (Line 12 + Line 13)	\$1,712,325,359 \$6,382,481 \$1,718,707,840	Line 2 Worksheet 3, Line 3, Column 3
14	Total Plant in Service	\$1,730,862,090	FERC Form 1 Page 207.104g - Page 200.4b
16	Percent Allocation (Line 14 / Line 16)	99.2978%	

New England Power Company Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2012

Input Revenues associated with the PTF Supporting Facilities in columns (a) and expenses associated with the facilities in columns (b). The totals are then linked to Worksheet 1, Lines 23 and 24.

			TOTA	L
Participant	PTF Supporting Facilities	FERC Form 1 Reference	Revenues	Expenses
			(a)	(b)
NSTAR	HQ Phase II - AC in MA	Pg 332 Line 5 Col (g)		\$99,271
	Bell Rock Road	Page 330.5 Line 12 Col (n)	\$44,768	
	Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrook	Page 330.1 Line 8 Col (n)	\$366,468	
NU	Public Service CoMoore 115 kV Substation	Page 330.1 Line 5 Col (n)	\$13,571	
NEP	Chester SVC	Transmission Billing		\$603,873
	HQ Phase II - AC in MA	Page 330 Line 11 Col (n)	\$4,946,997	
VT Elec Co.	Comerford 115 kV Substation	Page 330.1 Line 12 Col (n)	\$35,824	
		Totals	\$5,407,628	\$703,144

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 22, Column 5)

\$0

New England Power Company 2012 Informational Filing PTF Plant Allocation

				Percent
			Total	Pre/Post
1	2011	Pre-1997 PTF Transmission Plant	\$349,334,382	
2	2011	Post-1996 PTF Transmission Plant	<mark>\$819,449,952</mark>	
3	2012	Additions/Retirements	\$103,978,575	
4	2012	Pre-1997 PTF Transmission Plant	\$352,959,991	27.77%
5	2012	Post-1996 PTF Transmission Plant	\$918,015,798	72.23%
6	2012	Total PTF Transmission Plant	\$1,270,975,789	100.00%

Sources:

- 1 PTF Plant Reports for previous year
- 2 PTF Plant Reports for previous year
- 3 Line 6 Line 1 + Line 2
- 4 PTF Plant Reports for current year
- 5 PTF Plant Reports for current year
- 6 Line 4 + 5

GROSS PLANT ASSOC. WITH HVDC LEASES 2012

LINE <u>NO</u>		(HVDC) NHH/NEH <u>LEASE</u>
1	Gross Plant Value Comerford Station to Tewksbury Line	\$14,952,279
2 3 4	<u>Allocation</u> Miles used by NHH (a) Total miles at Comerford Station Percentage of Total Gross Plant leased by NHH (a)	224 253 89%
5	Total Gross Plant leased by NHH (a)	\$13,307,528
6	Total Land from Sandy Pond to New Hampshire	\$1,106,146
7	HVDC lines occupy 35% of Right of Way	35%
8	Total Land leased by NEH (a)	\$387,151
9	Total NEP Gross Plant leased by HVDC to be excluded from PTF Revenue requirement	\$13,694,679
<u>Sourc</u> 1	:e: FERC Form 1, Page 422.1-423.1, Lines 5 + 16 col (I) Total miles used per lease agreement	

- 2 Total miles used per lease agreement
- 3 FERC Form 1, Page 422.1 Lines 5 + 16 col (f)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 FERC Form 1, Page 422-423, Line 15 col (j)
- 7 Percentage per lease agreement
- 8 Line 6 * Line 7
- 9 Line 5 + Line 8

Note:

(a) NEH and NHH are acronyms for two of the three "Hydro Companies, New England Hydo Transmission (NEH) Electric Company, New England Electric Transmission Corporation, and New England Hydro Transmission Electric Company, Inc. (NHH)" which own and lease the HVDC interconnection facilities to the participants to the NEPOOL HVDC agreements.

New England Power Company Determination of Book Depreciation on Equity AFUDC

		<u>2012</u>
1	Total Current Year Book Depreciation on Equity AFUDC	\$1,346,360
2	Less: Specifically Identified Transmission-Related	
	Tewksbury Line	\$54,708
	Hydro-Quebec	\$23,543
	MontaupTransmission	\$9,777
	1998 Transmission	\$13,959
	1999 Transmission	\$42,457
	2000 Transmission	(\$8,299)
	2001 Transmission	\$23,561
	2002 Transmission	\$8,889
	2003 Transmission	\$16,500
	2004 Transmission	\$15,518
	2005 Transmission	\$49,757
	2006 Transmission	\$64,352
	2007 Transmission	\$42,418
	2008 Transmission 2009 Transmission	\$57,508
	2009 Transmission 2010 Transmission	\$98,437 \$79,948
	2010 Transmission	\$155,706
	2012 Transmission	\$210,246
		\$958,985
		ψ330,303
3	Total Unidentified Book Depreciation on Equity AFUDC	\$387,375
4	Plant Allocator Factor	99.2978%
5	Allocated Transmission Related Book Depreciation on Equity AFUDC	\$384,655
6	Plus: Specifically Identified Transmission-Related Equity AFUDC	<u>\$958,985</u>
7	Total Transmission-Related Equity AFUDC	\$1,343,640
8	Pre-97 PTF Allocation Factor	20.6129%
9	Transmission-Related Equity AFUDC	\$276,963

Sources:

1 & 2 Transmission Rates includes \$9,777 from Montaup

- 3 Line 1 Line 2
- 4 Worksheet 5 PTF Plant Allocation Factor
- 5 Line 3 * Line 4
- 6 Line 2
- 7 Line 5 + Line 6
- 8 Worksheet 5 Pre-97 PTF Allocation Factor
- 9 Line 7 * Line 8

New England Power Company Determination of the PTF Related Integrated Facilities Charges

			Narragansett <u>2012</u>	MECO <u>2012</u>
1	Total Integrated Facilities Charges		\$77,884,781	\$9,279,091
2 3 4	Total 2012 PTF Property Total Transmission Plant in 2012 NECO or MECO PTF Plant Allocator	(NECO includes \$88M topside) (NECO includes \$88M topside)	\$386,991,881 \$486,729,573 79.51%	\$24,868,977 \$47,856,277 51.97%
5	PTF Related Integrated Facilities Char	rge	\$61,925,101	\$4,821,969
6	Total Integrated Facilities		=	\$66,747,070
<u>Source</u>	<u>e:</u>			

- 1 FF1 Page 330.4 Lines 13 & 14 Col (n)
- 2 PowerPlant Reports
- 3 FF1 Page 207 Line 58 (g)
- 4 Line 2 / Line 3
- 5 Line 1 * Line 4
- 6 Line 5 Totals for Narragansett and Massachusetts Electric

New England Power Company Development of 2012 Regulatory Commission Expense

Line <u>No.</u>		<u>2012</u>	Source
1	Total Regulatory Commission Expense - NEP	\$3,645,548	FERC Form1 Page 350.46d
2	Less: New Hampshire PUC Assessment	\$63,704	FERC Form1 Page 350.2d
3	Less: Mass Emergency Fund	\$0	FERC Form1 Page 350.7d
4	Less Mass DPU Special Assessment	\$229,133	FERC Form1 Page 350.8d
5	Less: Utility Expenses	<mark>\$850,079</mark>	FERC Form1 Page 350.46c
6	Total Federal Assessments	\$2,502,632	Line 1 - (Line 2-5)

Transmission Rents Received from Electric Property

New England Power Company

	<u>2012</u>
Revenues	\$1,129,406
Plant Allocation Factor	100.00%
Transmission Allocated	\$1,129,406
PTF Allocation	20.6129%
Total PTF Revenue	\$232,803

Source: Peoplesoft Activities #454002, 454020 and 454024 - see Analysis for details

Revenue for Short-Term Transmission Service under the NEPOOL Tariff

New England Power Company

		<u>2012</u>
Revenues	C C	\$1,056,174
Pre-97 PTF Percent		27.7708%
Total Pre-97 PTF Revenue	\$	293,308

Source: Short Term Through and Out Revenues from ISO New England