## VIA Electronic Filing

The Honorable Kimberly D. Bose, Secretary<br>Federal Energy Regulatory Commission<br>888 First Street, N.E.<br>Washington, DC 20426

## Re: Supplement to July 31, 2014 Annual Informational Filing Regarding ISO Tariff Charges in Effect as of June 1, 2014, Pursuant to Docket Nos. RT04-2000, et. al.

Dear Secretary Bose:
The Participating Transmission Owners’ Administrative Committee ("PTO AC") on behalf of New England’s Participating Transmission Owners ("PTOs") hereby electronically submits for informational purposes this letter and supporting materials to supplement its July 31, 2014, PTO AC Informational Filing under Section II of the ISO New England Inc. ("ISO-NE") Transmission, Markets and Services Tariff ("ISO Tariff") in the above captioned proceeding. ${ }^{1}$

## I. Background

On July 31, 2014, the PTOs submitted to the Commission the PTO AC Informational Filing ("July 31 Informational Filing") identifying updated rates for regional formula transmission charges for Scheduling, System Control and Dispatch Service ("S\&D")", Through or Out ("TOUT") Service ${ }^{3}$, and Regional Network Service ("RNS") ${ }^{4}$, pursuant to Commissionapproved formula rates respectively contained in Schedule 1, Schedule 8, and Schedule 9 under the ISO Tariff. These charges were based on actual cost data for calendar year 2013 and estimated data for calendar year 2014 and became effective as of June 1, 2014. ${ }^{5}$

[^0]Pursuant to Section II, Attachment F and Schedule 1 of the ISO Tariff, the PTOs are required to submit an informational filing to the Commission annually before July 31 of each year reflecting the calculation of regional transmission rates based on the most recent calendar year data. The ISO Tariff also requires revising the informational filing, and hence the rates for regional transmission services, if an error is found or if there is a change to the underlying data used in the calculation of the rates. Under Schedule 1 and Attachment F, "[i]f there are any corrections made to the information reflected in the informational filing after it has been submitted, the PTOs will file corrections to the informational filing." ${ }^{6}$

The modifications reflected in a corrected informational filing are used to revise the rates for $\mathrm{S} \& \mathrm{D}, \mathrm{TOUT}^{7}$ and RNS, whichever is applicable, and to adjust customer bills accordingly. Attachment F makes clear that an informational filing "does not reopen the formula rate...but rather is contestable only with respect to the accuracy of the information contained in the informational filing." ${ }^{8}$ Pursuant to the advance posting provisions in the Attachment F Implementation Rule of the ISO Tariff, the rates subject to the revisions submitted with this filing, and supporting information, have been posted on the ISO-NE website 45 days in advance of the date of this filing. Through the date of this filing, no comments have been received regarding this informational posting.

## II. Description of Adjustments Made to the July 31, 2014 Annual Informational Filing

This supplemental filing contains revised information from New England Power Company d/b/a National Grid ("NEP") which results in adjustments to the S\&D, TOUT and RNS rates in effect for the period beginning June 1, 2014 through May 31, 2015. The proposed supplemental PTO AC rate information contained in this filing identifies the impact of NEP's revisions on the S\&D and RNS rates. The revised support sheets for S\&D and RNS rates and revised information for NEP are attached to this transmittal letter as Attachment 2.

NEP's revisions in this filing are the result of a limited tariff waiver granted by the Commission in Docket No. ER14-1686. ${ }^{9}$ On April 8, 2013, NEP filed a Request for Limited Tariff Waiver requesting a waiver of certain requirements under Attachment F to the ISO Tariff to (1) permit NEP to provide estimated data as the basis for calculating its calendar year 2013 Transmission Revenue Requirement for the S\&D, TOUT and RNS service rates submitted for the July 31 Informational Filing and (2) give NEP until February 28, 2015, to submit a corrected informational filing to the Commission with NEP's Transmission Revenue Requirement updated

[^1]such that it fully complies with the ISO Tariff's requirement that 2013 FERC Form 1 data be used for calculating NEP's Transmission Revenue Requirement.

On June 6, 2014 the Commission granted National Grid's request with certain modifications. Specifically, the Commission granted the waiver request, but shortened the proposed filing date to no later than January 12, 2015. The Commission also required that the corrected rates be posted on the ISO-NE website for no less than 45 days prior to making the supplemental filing, or no later than November 29, 2014 if the filing was to be made on January $12^{\text {th }}$. The actual posting took place on November 21, 2014. Today's supplemental filing complies with the 45 -day posting requirement.

Using actual information from its 2013 FERC Form 1 results in a decrease to NEP's Annual Transmission Revenue Requirement ("ATRR") of \$3,600,458 from the estimated ATRR included in the July 31 Informational Filing. This is a decrease to the RNS rate of $\$ 0.17218 / \mathrm{kW}$ yr. for the period June 1, 2014 through May 31, 2015. ${ }^{10}$ In addition, the use of actual 2013 FERC Form 1 data results in a decrease to the Schedule 1 S\&D rate of $\$ 0.04684 / \mathrm{kW}-\mathrm{yr}$. Worksheets supporting the calculation of NEP's revenue requirements for 2013 are provided in Attachment 1 to this transmittal letter.

NEP's revisions in this filing also consist of corrections to address certain errors from prior periods. The 2013 ATRR true-up in this supplemental filing includes a one-time adjustment for the period of June 1, 2014 through May 31, 2015 to correct ATRR calculations for the years 2008 through 2012. This correction is a result of correcting the basis for identifying plant investment as Pool Transmission Facilities ("PTF") owned by NEP and its affiliates for purposes of establishing NEP's ATRR for RNS rates. In validating 2013 plant balances for the FERC Form 1, anomalies were noted in transmission plant values which prompted a further review of internal plant reports used to determine the plant accounting inputs for the ATRR calculation. This review revealed that the underlying tables used to calculate specific PTF and Non-PTF asset values required correction back to December 2008. The Company has now updated the tables to reflect the corrected information for the PTF and Non-PTF transmission plant assets. ${ }^{11}$ The internal plant reports were also revised to correct Post-2003 PTF Investment and PTF plant investment specifically related to the New England East West Solution ("NEEWS") both of which qualify for incentive rate treatment. Attachment 3 provides a summary of the corrections to plant investment for the years 2008 through 2012. To correct the impact of these errors on RNS rates, NEP recalculated its ATRRs for 2008 through 2012 based on the corrected plant balances and associated accumulated depreciation and accumulated deferred taxes. The increase to the PTF plant balances also caused an increase to the PTF Plant Allocation Factor that is used to allocate certain rate base and revenue requirement items that contributes to the increase in the ATRR. The revised calculations for this time period are contained in Attachment 4, Exhibits 1 through 8, to this transmittal letter. The total change to the

[^2]ATRRs for these years resulted in a total revenue requirement increase of $\$ 13,691,514$ which has been included as a one-time adjustment to the ATRR calculation for the June 1, 2014 through May 31, 2015 rate period. NEP is not seeking recovery of any interest on this amount. The $\$ 13,691,514$ increase to ATRR results in a one-time increase to the RNS rate of $\$ 0.65476 / \mathrm{kW}-\mathrm{yr}$. or 0.7 percent for the period from June 1, 2014 through May 31, 2015.

The combined effect of the \$3,600,458 decrease to ATRR from NEP's actual 2013 FERC Form 1 results and the one-time adjustment resulting from the correction of plant investment values from prior years results in a net increase of $\$ 10,091,055$ million to the ATRR, which will increase the RNS rate by approximately $\$ 0.48258 / \mathrm{kW}$-year, or 0.5 percent for the period of June 1, 2014 through May 31, 2015.

## III. Method Utilized by NEP To Revise Prior Year Revenue Requirements

NEP has proposed to include its prior year ATRR revenue requirement corrections through a one-time adjustment to the current RNS rate effective June 1, 2014 through May 31, 2015 (referred to herein as "prospective adjustment"). The ISO-NE Billing Policy ${ }^{12}$ is generally utilized for recalculations that are performed within a short time frame from the original billing. Longer term recalculations require the ISO to undertake a significant level of administrative effort.

NEP respectfully requests that the Commission grant any waivers that may be necessary to enable the PTOs to reflect the revisions in prior-year PTF revenue requirements as a prospective adjustment to the current year's RNS rate. NEP submits that there is good cause for using a prospective adjustment because in these circumstances it is administratively simpler, more efficient, and less costly than undertaking a complete rebilling. Implementing re-billing for these relatively small adjustments would precipitate administrative charges for time spent by ISO-NE to recalculate over 60 months of ISO billings to correct over- and under-collections on a monthly basis to all customers as part of the re-billing process under the ISO-NE Re-Billing Protocol. ${ }^{13}$ This re-billing would entail substantial administrative effort and expense whereas a prospective adjustment will fully recover the past under-collection with minimal administrative effort. Therefore, NEP has adopted a prospective rate adjustment approach and respectfully submits that such an approach is the most efficient and effective method to remedy the prior errors in its PTF revenue requirement calculations.

At the PTO AC Meeting held on November 19, 2014, the Participating Transmission Owners were notified of the proposed prospective rate adjustment. There were no objections by the PTOs to the use of this methodology.

## IV. Charges Resulting from the Adjustments Reflected in This Supplement to the July 31, 2014 Annual Informational Filing

[^3]The Honorable Kimberly D. Bose, Secretary Page 5

The impact of these revisions on the S\&D and RNS rates is, respectively, a decrease of $\$ 0.04684 / \mathrm{kW}-\mathrm{yr}$. and increase $\$ 0.48258 / \mathrm{kW}-\mathrm{yr}$. The revised S\&D rate is $\$ 1.64867 / \mathrm{kW}-\mathrm{yr}$. and revised RNS rate is $\$ 90.27897 / \mathrm{kW}-\mathrm{yr}$.

## V. Attachments and Additional Supporting Information

- This Transmittal Letter;
- Attachment 1 - NEP’s revised PTF revenue requirement worksheets for 2013;
- Attachment 2 - Revised support sheets for S\&D and RNS for rates effective June 1, 2014 - May 31, 2015;
- Attachment 3 - Summary of corrections to ATRR plant investment inputs;
- Attachment 4 - NEP’s revised PTF revenue requirement worksheets for 2008-2012;
- Attachment 5 - Service List of state regulators and other interested parties; and
- Attachment 6 - List of Participating Transmission Owners sponsoring this supplemental informational filing.


## VI. Communications

The PTOs request that correspondence and communications with respect to this supplement to the July 31 Informational Filing in this proceeding be addressed to the following:

| New England Power Company <br> d/b/a National Grid |  |
| :--- | :--- |
|  |  |
| Timothy J Martin | Terry L. Schwennesen |
| Principal Program Manager | Counsel for National Grid |
| National Grid | c/o National Grid |
| 40 Sylvan Road | 40 Sylvan Road |
| Waltham, MA 02451 | Waltham, MA 02451 |
| Tel: (781) 907-2417 | Tel: (401) 480-9051 |
| Fax: (781) 907-5700 | Terry.Schwennesen@nationalgrid.com |
| Timothy.martin@nationalgrid.com |  |

The Honorable Kimberly D. Bose, Secretary
Page 6

| PTO AC Chair | PTO AC Legal Work Group Chair |
| :--- | :--- |
|  |  |
| James Clemente | Michael J. Hall |
| The United Illuminating Company | Senior Counsel |
| 180 Marsh Hill Road | 780 N. Commercial Street |
| Orange, CT 06477 | Manchester, NH 03257 |
| Tel: (203) 499-3669 | Tel: (603) 634-2273 |
| James.Clemente@uinet.com | Fax: (603) 634-2438 |
|  | $\underline{\text { Michael.Hall@nu.com }}$ |
|  |  |

Accordingly, the PTOs request that these individuals be entered on the official service list maintained by the Secretary in this proceeding.

A copy of this submission is being sent to state regulators in New England, the New England Conference of Public Utility Commissioners ("NECPUC"), ISO New England, Inc., NEPOOL and the Power Planning Committee of the New England Governors Conference, Inc. Attachment 5 identifies the entities to which this filing has been sent. In addition, Attachment 6 includes a service list of the PTOs making up the PTO AC and sponsoring this filing.

Thank you for your attention to this matter. Please contact me if you have any questions concerning this informational filing.

Respectfully submitted,
/s/ Michael J. Hall
Michael J. Hall, Esq.
Counsel to Northeast Utilities
\& Chair of the PTO AC Legal Work Group
On behalf of the PTO Administrative Committee
Attachments
cc: Persons and Entities identified in Attachments 5 and 6.

NEP's Revised PTF Revenue Requirement Worksheets for 2013

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


| PTO 201312 CP NETWORK LOADS |  |
| :---: | :---: |
|  | 2013 |
| Local Networks | Network <br> Load (MW) |
| Central Maine Power Co. <br> Emera Maine <br> Fitchburg Gas \& Electric Light Co. <br> New England Power Co. <br> Northeast Utilities <br> NSTAR Electric Co. <br> The United Illuminating Co. <br> VT Transco LLC | $1,418.440$ 254.663 76.971 $6,019.709$ $7,235.546$ $4,339.080$ 734.933 831.238 |
| Total | 20,910.580 |
| Long Term TOUT (MW) | 0 |


| Total impact to RNS rate |
| :--- |
| PTO RNS Rates for 6/1/14 PRE 97 <br> RNS Rate Post 96 <br> RNS Rate RNS Rates for June 1, 2014 <br> (Revised November 19, 2014) RNS Rates previously <br> in effect <br> June 1, 2014 |
| Total NE Rev Req <br> Total NE Loads - kW <br> Total NE RNS \$ / kW-yr. |


| PTO RNS Rates for 6/1/14 | PRE 97 <br> RNS Rate | Post 96 <br> RNS Rate | RNS Rates for June 1, 2014 <br> (Revised November 19, 2014) | RNS Rates previously in effect June 1, 2014 | Delta |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total NE Rev Req | \$347,444,493 | \$1,526,649,644 | 89.62421 | 89.79639 | (0.17218) |
| Total NE Loads - kW | 20,910,580 | 20,910,580 |  |  |  |
| Total NE RNS \$ / kW-yr. | 16.61573 | 73.00848 |  |  |  |


| PTO RNS Rates for 6/1/14 | PRE 97 RNS Rate | Post 96 <br> RNS Rate | RNS Rates for June 1, 2014 <br> (Revised November 19, 2014) | RNS Rates previously in effect June 1, 2014 | Delta |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total NE Rev Req | \$4,111,477 | \$9,580,037 | 0.65476 | 0.00000 | 0.65476 |
| Total NE Loads - kW | 20,910,580 | 20,910,580 |  |  |  |
| Total NE RNS \$ / kW-yr. | 0.19662 | 0.45814 |  |  |  |


| REGIONAL RATES NOTICE |  |
| :--- | :--- |
| TO: | NEPOOL Transmission Committee Members and Alternates |
| FROM: | Tiffany Forsyth, Member - Rates Work Group ("RWG") of the Participating Transmission Owners <br> Administrative Committee ("PTO AC") |
| DATE: | November 19, 2014 |
| RE: | RNS and Schedule 1 Rates Effective June 1, 2014 (Revised November 19, 2014) |

Please note that the formula rates for Regional Network Service ("RNS") and Regional Schedule 1 Service effective June 1, 2014 have been updated to reflect actual data for 2013, forecasted data for 2014 and the annual true-up and associated interest of New England Power Company. The resulting rates for RNS and Schedule 1 are included in the table below for stakeholder information purposes and for posting on OASIS.

| ------------REGIONAL RATES (\$ / kW-year)------------ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pre 97 | Post 96 | Total RNS Rate Effective 6/1/14 (Revised 11/19/14) | Total RNS Rate Previously in Effect 6/1/14 | Change |
| RNS - revised | 16.81235 | 73.46662 | 90.27897 | 89.79639 | 0.48258 |
| Schedule 1 |  |  | 1.64867 | 1.69551 | (0.04684) |

The PTO AC has approved the revised RNS and Schedule 1 rates effective June 1, 2014 at the meeting scheduled on November 19, 2014.

The PTO AC on behalf of the New England PTOs will submit an Annual Informational Filing to FERC on or before January 12, 2015 and a draft of the Information Filing will be available for viewing on ISO’s web site by November 21, 2014 at:
http://www.iso-ne.com/stlmnts/iso_rto_tariff/supp_docs/2014/index.html

Revised Support Sheets for S\&D and RNS for Rates Effective June 1, 2014 - May 31, 2015

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)
2 Less ISO \& OATT Sch 1 costs included in above accounts
3 Sub-total (1-2)
4 Amount allocated to transmission function
5 Transmission related S\&D costs from SCADA or other systems
6 Sub-total ( $4+5$ )
7 PTF allocation factors (see page 2 for details)
8 Sub-total after applying PTF allocation factors (from page 2)
9 Maine LCC costs
10 REMVEC II costs
11 CONVEX costs
12 Sub-total $(9+10+11)$
13 100\% allocated to transmission function
14 Revenues credited for short-term Transmission Service
15 Total transmission related system \& dispatch revenue requirement (8+13+14)
1612 month CP LOAD (kW) as defined in section 46.1 of the ISO-NE Tariff
17 Long Term Firm PTP Capacity (kW)
18 Scheduling System Control and Dispatch Service Rate (\$/kW-YR): (15/(16+17))

| \$ | 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 |  |
|  | 20,910,580 |  |
|  | - |  |
| \$ | 1.64867 |  |



| ISO NE Transmission, Markets \& Services Tariff |  |
| :--- | ---: |
| OATT Regional Schedule 1 - Scheduling System Control and Dispatch Service Rate |  |
| Effective June 1, 2014 - May 31, 2015 |  |
| (Reflecting 2013 Schedule 1 Costs) Revised 11/19/2014 |  |
| COMPANY |  |
| Braintree Electric Light Department |  |
| Central Maine Power Company |  |
| Emera Maine |  |
| Fitchburg Gas and Electric Light Company |  |
| Hudson Light \& Power Department |  |
| Maine Electric Power Company |  |
| Massachusetts Municipal Wholesale Electric |  |
| Middleborough Gas \& Electric Department |  |
| New England Power Company |  |
| Northeast Utilities |  |
| NSTAR Electric Company |  |
| Reading Municipal Light Plant |  |
| Taunton Municipal Light Plant |  |
| United Illuminating Company |  |
| Vermont Transco LLC |  |
|  | $0.02414 \%$ |
|  |  |

PTO 201312 CP NETWORK LOADS


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


|  | PTO 2013 Rev Req |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PTO Annual Input Data 2013 (Revised 11/19/14) |  |  |  |  |  |  |
|  |  |  |  | PTF Revenue Requirements |  |  |  |
|  | Customer \# | DUNS \# | DUNS Name | $\begin{gathered} \hline \text { Pre-1997 } \\ \text { PTF } \\ \$ \\ \hline \end{gathered}$ |  | $\begin{gathered} \hline \text { Post-1996 } \\ \text { PTF } \\ \$ \\ \hline \end{gathered}$ |  |
| 1 | 5 | 17-057-1897 | Braintree Electric Light Department | \$ 144,673 | \$ | 1,362,936 | 1 |
| 2 | 6 | 00-694-8954 | 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 | 96-773-8696 | Connecticut Transmission Municipal Electric | \$ 343,747 | \$ | 8,917,213 | 4 |
| 5 | 2 | 00-694-9002 | 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 | 08-465-0050 | 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 | 00-695-1552 | NSTAR Electric Company | \$ 49,558,238 | \$ | 190,933,064 | 16 |
| 17 | 148 | 86-703-4654 | Reading Municipal Light Plant | \$ (142,959) | \$ | 324,779 | 17 |
| 18 | 153 | 04-661-6033 | Taunton Municipal Light Plant | \$ $(73,960)$ | \$ | 13,633 | 18 |
| 19 | 185 | 79-806-8342 | Unitil Power Corp. | \$ 126,672 | \$ | - | 19 |
| 20 | 181 | 00-691-7967 | United Illuminating Company | \$ 21,271,544 | \$ | 94,937,914 | 20 |
| 21 | 50853 | 78-039-9163 | Vermont Transco LLC | \$ 12,474,570 | \$ | 138,008,051 | 21 |
| 21 | 182 | 00-579-1934 | 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 requirement amounts indicate payments made to support PTF owned by other Participants. |  |  |  |  |  |  |

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):
Rates Effective for the Period:
Through:

Calendar Year 2013
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 Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F - Sections A through I | \$144,558,044 ${ }^{\text {(a) }}$ | \$158,541,414 ${ }_{\text {(f) }}$ |
| Total of Attachment F - Section J - Support Revenue | \$5,208,613 ${ }^{(0)}$ | \$0 ${ }^{(9)}$ |
| Total of Attachment F - Section K - Support Expense | \$697,433 (c) | \$0 ${ }^{(n)}$ |
| Total of Attachment F - Section (L through O) | $(\$ 328,037){ }_{\text {(d) }}$ | $(\$ 926,350){ }^{\text {(i) }}$ |
| Sub Total - Sum (A through I) - J + $\mathrm{K}+(\mathrm{L}$ through O ) | \$139,718,827 $\quad(\mathrm{e})=(\mathrm{a}) \cdot(\mathrm{l})+(\mathrm{c})+(\mathrm{d})$ | \$157,615,064 ${ }^{(0)}$ |
| 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 ${ }^{(n)=(e)+(1)}$ | \$213,480,520 ${ }^{(0)=()+(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requireme Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require | nts \& ments | \$353,199,347 ${ }^{(p)=(n)+(0)}$ | and True-ups (including interest)

# PTF Revenue Requirements <br> Worksheet 1 of 6 Page 1 of 2 

## New England Power Company <br> Annual Revenue Requirements of PTF Facilities <br> For Costs in 2013

POST-1996
Shading denotes an input

| Line No. |
| :---: |
| 1 |
| 2 |
| 3 |
| 4 |

## I. INVESTMENT BASE <br> Transmission Plant <br> General Plant <br> Plant Held For Future Use Total Plant (Lines 1+2+3) <br> Accumulated Depreciation <br> Accumulated Deferred Income Taxes <br> Loss On Reacquired Debt <br> Other Regulatory Assets <br> Net Investment (Line 4+5+6+7+8) <br> Prepayments <br> Materials \& Supplies <br> Cash Working Capital <br> NEEWS CWIP

Attachment F
$\frac{\text { Reference }}{\text { Section: }}$
(A)(1)(a)
(A)(1)(b)
(A)(1)(c)
(A)(1)(d)
(A)(1)(e)
(A)(1)(f)
(A)(1)(g)

(A)(1)(h)
(A)(1)(i)
(A)(1)(j)
(A)(1)(k)

| NEP |
| ---: |
| $\$ 986,723,295$ |
| $\$ 3,236,344$ |
| $\$ 542,157$ |
| $\$ 990,501,796$ |

(\$209,979,240
(\$223,376,635)
\$102,169
\$22,676,43
\$579,924,521
\$140,767
\$1,861,480
\$4,911,504
\$15,340,495
\$602,178,767
-

## II. REVENUE REQUIREMENTS

| (A) | $\$ 80,450,478$ |
| ---: | ---: |
| (B) | $\$ 21,16,538$ |
| (C) | $\$ 47,186$ |
| (D) | $(\$ 202,818)$ |
| (E) | $\$ 16,940,728$ |
| (F) | $\$ 897,449$ |
| (G) | $\$ 20,238,401$ |
| (H) | $\$ 19,053,632$ |
| (I) | $\$ 0$ |
| (J) | $\$ 0$ |
| (K) | $\$ 0$ |
| (L) | $\$ 0$ |
| (M) | $\$ 0$ |
| (N) | $(\$ 380,112)$ |
| (O) | $(\$ 546,238)$ |


| Reference |
| :--- |
| Worksheet 3 , line $1 \& 2$ column 5 |
| Worksheet 3 , line 3 column 5 |
| Worksheet 3 , line 5 column 5 |
|  |
| Worksheet 3 , line 8 column 5 |
| Worksheet 3 , line 11 column 5 |
| Worksheet 3 , line 12 column 5 |
| Worksheet 3 , line 16 column 5 |
|  |
| Worksheet 3 , line 17 column 5 |
| Worksheet 3 , line 18 column 5 |
| Worksheet 3 , line 25 column 5 |
| Worksheet 3 , line 26 column 5 |

Total Investment Base (Line 9+10+11+12+13)

Investment Return and Income Taxe
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
Transmission Related Integrated Facilities Charge
Transmission Support Revenue
Transmission Support Expense
Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff
Transmission Rents Received from Electric Property
Total Revenue Requirements (Line 14 thru 28)

Depreciation Expense

Popertax Expens
Payroll Tax Expense
dministrative \& General Expense
Transmission Related Integrated Facilities Charge
Transmission Support Revenue
Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff

Total Revenue Requirements (Line 14 thru 28)
\$157,615,064

Worksheet 2
Worksheet 4, line 3, column 5 Worksheet 4 , line 4 , column 5 Worksheet 4 , line 5 , column 5 Worksheet 4 , line 6 , column 5 Worksheet 4, line 22, column 5 Worksheet 4 , line 11 , column 5 Worksheet 4 , line 21, column 5

Attachment 4, line 6
Worksheet 6
Worksheet 6

Attachment 7
Attachment 6

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

Shading denotes an input

| Line No. | Description | Attachment F Reference |  | Forecasted 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 CWIP |
| 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 |


|  | CAPITALIZATION12/31/2012 |  | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY <br> PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$ | 410,350,000 | 32.98\% | 0.63\% | 0.21\% |  |
| PREFERRED STOCK | \$ | 1,111,700 | 0.09\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$ | 832,696,968 | 66.93\% | 11.64\% | 7.79\% | 7.79\% |
| TOTAL INVESTMENT RETURN |  | \$1,244,158,668 | 100.00\% |  | 8.01\% | 7.80\% |

## Cost of Capital Rate=



|  | (PTF) |  |
| :---: | :---: | :---: |
| INVESTMENT BASE | \$602,178,767 | From Worksheet 1 |
| x Cost of Capital Rate | 0.1303163 |  |
| = Investment Return and Income Taxes | \$78,473,709 | To Worksheet 1 |
| INVESTMENT BASE (Excluding NEEWS CWIP) | \$586,838,272 | From Worksheet 1 |
| x Cost of Capital Rate | 0.1303163 |  |
| = Investment Return and Income Taxes | \$76,474,592 | To Worksheet 2 |


| Plant In-Service | \$ | 209,862,929 | From Attachment 1 |
| :---: | :---: | :---: | :---: |
| Accumulated Depreciation |  | $(44,104,898)$ | From Worksheets 5 \& 7 |
| Accumulate Deferred Income Taxes |  | $(47,203,372)$ | From Worksheets 5 \& 7 |
| Total Post-2003 Investment | \$ | 118,554,659 | Calculated |
| Incremental ROE: 1.00\% |  | 0.00669 | Calculated |
| Federal Income Taxes: |  | 0.00360 | Per Attachment F |
| State Income Taxes: |  | 0.00065 | Per Attachment F |
| Cost of Capital Rate |  | 0.01094 |  |
| Incremental Return and Taxes on Post-2003 PTF Investment | \$ | 1,296,988 |  |



Accumulated Depreciation
Accumulate Deferred Income Taxes
Total New England Power NEEWS Investment
Incremental ROE:
Federal Income Taxes:
State Income Taxes:
Cost of Capital Rate
Incremental Return and Taxes on NEEWS PTF Investment

Incremental Return and Taxes on NEEWS PTF Investment


New England Power NEEWS In-Service Accumulated Depreciation
Accumulate Deferred Income Taxes
Total New England Power NEEWS Investment

| Incremental ROE: | $1.25 \%$ | 0.00837 |
| :--- | :---: | ---: |
| Federal Income Taxes: |  | 0.00451 |
| State Income Taxes: |  | 0.00081 |
| Cost of Capital Rate |  | 0.01369 |
|  |  |  |

NEEWS Allocation Factor

> Total Transmission Investment
> Total NEEWS In-Service - NEP
> For Accumulated Depreciation

NEEWS Allocation Factor
Plant Allocation Factor
For Accumulated Deferred Income Taxes

|  | $\$ 1,868,987,087$ |  |
| :--- | ---: | :--- |
| $\$ 00,742,476$ | Worksheet 5 Line 2 |  |
| \$lant Accounting Records |  |  |
|  | $3.2500 \%$ |  |
|  | $3.2500 \%$ |  |
| 0.993561 | Worksheet 5 Line 16 |  |

PowerPlant PTF 4 \& 5 reports - PTF only
From Worksheets 3 \& 5
From Worksheets 3 \& 5
Calculated
Calculated
Per Attachment F
Per Attachment F

From Worksheets 3

Calculated
Calculated
Per Attachment F
Per Attachment F

Worksheet 5 Line 16

| New England Power Company | PTF Revenue Requirements |
| :---: | ---: |
| Annual Revenue Requirements | Worksheet 2 of 6 |
| For Costs in 2013 | Page 2 of 2 |

## Shading denotes an input

|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2013 \\ \hline \end{gathered}$ |  | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY <br> PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$ | 410,350,000 | 32.98\% | 0.63\% | 0.21\% |  |
| PREFERRED STOCK | \$ | 1,111,700 | 0.09\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$ | 832,696,968 | 66.93\% | 12.89\% | 8.63\% | 8.63\% |
| TOTAL INVESTMENT RETURN |  | \$1,244,158,668 | 100.00\% |  | 8.85\% | 8.64\% |

## Cost of Capital Rate=

(a) Weighted Cost of Capital
(b) Federal Income Tax
(c) State Income Tax
$=\quad 0.0 .0885$
$=\quad 0.0085004$
$=\quad 0.0470560$



|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |

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

(a) Worksheet 5, Line 11
(b) Worksheet 5 Line 3
(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 <br> No. |  |  | Source |
| :---: | :--- | ---: | :--- |
| Reference |  |  |  |

## 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.

|  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: |
| 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 $8 \mathrm{Col}(\mathrm{n})$ | \$0 |  |
| NU | Public Service Co. -Moore 115 kV Substation | Page 330.1 Line 5 Col (n) | \$0 |  |
| NEP | Chester SVC | Transmission Billing |  | \$0 |
|  | HQ Phase II - AC in MA | Page 330 Line $11 \mathrm{Col}(\mathrm{n})$ | \$0 |  |
| VT Elec Co. | Comerford 115 kV Substation | Page 330.1 Line $12 \mathrm{Col}(\mathrm{n})$ | \$0 |  |
|  |  |  |  |  |
|  |  | Totals | \$0 | \$0 |

New England Power Company
2013 Informational Filing
PTF Plant Allocation

## Percent <br> 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

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES

 $\underline{2013}$| LINE <br> NO |  | (HVDC) <br> NHH/NEH <br> LEASE |
| :---: | :--- | :---: |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line |  |$\quad$| (a) |
| :---: |

## 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 

Total Current Year Book Depreciation on Equity AFUDC
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
Total unidentified Book Depreciation on Equity AFUDC \$387,375
Plant Allocator Factor 99.3561\%
Allocated Transmission Related Book Depreciation on Equity AFUDC \$384,881
Plus: Specifically Identified Transmission-Related Equity AFUDC \$1,128,113
Total Transmission-Related Equity AFUDC \$1,512,994
Post-96 PTF Allocation Factor
52.7945\%

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 <br> Determination of the PTF Related Integrated Facilities Charges

|  | Narragansett <br> $\mathbf{2 0 1 3}$ | MECO <br> $\underline{\mathbf{2 0 1 3}}$ |  |
| :--- | :--- | ---: | ---: |
| 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 $13 \& 14 \mathrm{Col}(\mathrm{n})$
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 |  |  |  |
| :---: | :---: | :---: | :---: |
| No. |  | $\underline{2013}$ | Source |
| 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 | \$100,454 | 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

## 2013

Revenues

Plant Allocation Factor

Transmission Allocated
PTF Allocation

Total PTF Revenue
\$1,034,650
100.00\%
\$1,034,650
52.7945\%
\$546,238

## Source:

Revenues: SAP account C4540000, C454000W, C4545000

# New England Power Company 

## 2013

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


Post－96 Revenue
Requirements



Pre－97 Revenue
Requirements $\$ 144,558,044{ }^{\text {（a）}}$
$\longrightarrow^{\$ 5,208,613}{ }^{\text {（b）}}$ （p）$\overline{(\angle \varepsilon 0 ‘ 8 乙 \varepsilon \$)}$


$$
\$ 158,541,414{ }^{(f)}
$$



ととャ 269\＄

$\$ 213,480,520^{(0)=(0)+(k)+(m)}$

$(0)=(0)+(k)+(m)$

$\mathbf{N}^{\$ 139,718,827}{ }^{(\mathrm{n})=(\mathrm{e})+(\mathrm{l})}$

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





## II．REVENUE REQUIREMENTS


Investment Return and Income Taxes
Depreciation Expense Amortization of Loss on Reacquired Debt Amortization of Loss on Reacquired Debt
Investment Tax Credit
Property Tax Expense Property Tax Expense


PTF Revenue Requirements
Worksheet 2 of 6


Shading denotes an input

$$
\begin{aligned}
& \text { Cost of Capital Rate= } \\
& \text { (a) Weighted Cost of Capital } \\
& \text { (b) Federal Income Tax }
\end{aligned}
$$

(c) State Income Tax
(a) $+(\mathrm{b})+(\mathrm{c})$ Cost of Capital Rate
$=$ Investment Return and Income Taxes
(a) Worksheet 5 Line 11
(b) Worksheet 5 Line 3
(c) Worksheet 5 Line 16
Shading denotes an input


|  | Shading denotes an input |  |  | New England Power Company |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Line } \\ \text { No. } \end{gathered}$ |  |  |  | (2) |  |  |  |
|  |  |  |  |  |  | (4) |  |
|  |  |  |  | Wage/Plant | (3) $=(1)^{*}(2)$ | PTF | $(5)=(3)^{*}(4)$ |
|  |  |  |  | Allocation | Transmission | Allocation | PTF |
|  |  |  |  | Factors | Allocated | Factor (b) | Allocated |
| 1 | Transmission Plant |  |  |  |  |  | \$349,415,646 |
| 2 | Less: Plant Assoc. HVDC Leases |  |  |  |  |  | (\$13,715,537) |
| 3 | General Plant | \$ | 6,142,337 | 99.8004\% (a) | \$6,130,077 | 18.6955\% (b) | \$1,146,049 |
| 4 | Total (line 1+2+3) |  |  |  | \$6,130,077 |  | \$336,846,158 |
| 5 | Transmission Plant Held for Future Use | \$ | 1,026,919 |  | \$1,026,919 | 18.6955\% (b) | \$191,988 |
|  | Transmission Accumulated Depreciation |  |  |  |  |  |  |
| 6 | Transmission Accumulated Depreciation | \$ | $(392,787,258)$ |  | (\$392,787,258) | 18.6955\% (b) | (\$73,433,542) |
| 7 | General Plant Accumulated Depreciation | \$ | $(4,952,011)$ | 99.8004\% (a) | $(\$ 4,942,127)$ | 18.6955\% (b) | $(\$ 923,955)$ |
| 8 | Total (line 6+7) |  |  |  | $\underline{(\$ 397,729,385)}$ |  | (\$74,357,497) |
|  | Transmission Accumulated Deferred Taxes |  |  |  |  |  |  |
| 9 | Accumulated Deferred Taxes (281-283) | \$ | $(474,541,945)$ | 99.3561\% (c) | $(\$ 471,486,369)$ | 18.6955\% (b) | (\$88,146,734) |
| 10 | Accumulated Deferred Taxes (190) | \$ | 48,694,028 | 99.3561\% (c) | \$48,380,487 | 18.6955\% (b) | \$9,044,974 |
| 11 | Total (line 9+10) |  |  |  | $\underline{(\$ 423,105,882)}$ |  | (\$79,101,760) |
| 12 | Transmission Loss on Reacquired Debt | \$ | 193,522 | 100.0000\% | \$193,522 | 18.6955\% (b) | \$36,180 |
|  | Other Regulatory Assets |  |  |  |  |  |  |
| 13 | FAS 106 | \$ | - | 99.8004\% (a) | \$0 | 18.6955\% (b) | \$0 |
| 14 | FAS 109 (Asset Account 182.3) | \$ | 42,952,261 | 100.0000\% | \$42,952,261 | 18.6955\% (b) | \$8,030,140 |
| 15 | FAS 109 ( Liability Account 254 ) | \$ | - | 100.0000\% | \$0 | 18.6955\% (b) | \$0 |
| 16 | Total (line 13+14+15) |  | \$42,952,261 |  | \$42,952,261 |  | \$8,030,140 |
| 17 | Transmission Prepayments | \$ | 267,164 | 99.8004\% (a) | \$266,631 | 18.6955\% (b) | \$49,848 |
| 18 | Transmission Materials and Supplies | \$ | 3,525,898 |  | \$3,525,898 | 18.6955\% (b) | \$659,184 |
| 19 | Cash Working Capital |  |  |  |  |  |  |
| 20 | Operation \& Maintenance Expense |  |  |  |  |  | \$7,166,788 |
| 21 | Administrative \& General Expense |  |  |  |  |  | \$6,747,241 |
| 22 | Transmission Support Expense |  |  |  |  |  | \$0 |
| 23 | Subtotal (line 20+21+22) |  |  |  |  |  | \$13,914,029 |
| 24 |  |  |  |  |  |  | 0.1250 |
| 25 | Total (line 23 * line 24) |  |  |  |  |  | \$1,739,254 |
|  | (a) Worksheet 5 Line 11 |  |  |  |  |  |  |
|  | (b) Worksheet 5 Line 3 |  |  |  |  |  |  |
|  | (c) Worksheet 5 Line 16 |  |  |  |  |  |  |


|  | Shading denotes an input |  |  | New England Power Company |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Line } \\ \text { No. } \end{gathered}$ |  |  |  | (2) |  |  |  |
|  |  |  |  |  |  | (4) |  |
|  |  |  |  | Wage/Plant | (3) $=(1)^{*}(2)$ | PTF | $(5)=(3)^{*}(4)$ |
|  |  |  |  | Allocation | Transmission | Allocation | PTF |
|  |  |  |  | Factors | Allocated | Factor (b) | Allocated |
| 1 | Transmission Plant |  |  |  |  |  | \$349,415,646 |
| 2 | Less: Plant Assoc. HVDC Leases |  |  |  |  |  | (\$13,715,537) |
| 3 | General Plant | \$ | 6,142,337 | 99.8004\% (a) | \$6,130,077 | 18.6955\% (b) | \$1,146,049 |
| 4 | Total (line 1+2+3) |  |  |  | \$6,130,077 |  | \$336,846,158 |
| 5 | Transmission Plant Held for Future Use | \$ | 1,026,919 |  | \$1,026,919 | 18.6955\% (b) | \$191,988 |
|  | Transmission Accumulated Depreciation |  |  |  |  |  |  |
| 6 | Transmission Accumulated Depreciation | \$ | $(392,787,258)$ |  | (\$392,787,258) | 18.6955\% (b) | (\$73,433,542) |
| 7 | General Plant Accumulated Depreciation | \$ | $(4,952,011)$ | 99.8004\% (a) | $(\$ 4,942,127)$ | 18.6955\% (b) | $(\$ 923,955)$ |
| 8 | Total (line 6+7) |  |  |  | $\underline{(\$ 397,729,385)}$ |  | (\$74,357,497) |
|  | Transmission Accumulated Deferred Taxes |  |  |  |  |  |  |
| 9 | Accumulated Deferred Taxes (281-283) | \$ | $(474,541,945)$ | 99.3561\% (c) | $(\$ 471,486,369)$ | 18.6955\% (b) | (\$88,146,734) |
| 10 | Accumulated Deferred Taxes (190) | \$ | 48,694,028 | 99.3561\% (c) | \$48,380,487 | 18.6955\% (b) | \$9,044,974 |
| 11 | Total (line 9+10) |  |  |  | $\underline{(\$ 423,105,882)}$ |  | (\$79,101,760) |
| 12 | Transmission Loss on Reacquired Debt | \$ | 193,522 | 100.0000\% | \$193,522 | 18.6955\% (b) | \$36,180 |
|  | Other Regulatory Assets |  |  |  |  |  |  |
| 13 | FAS 106 | \$ | - | 99.8004\% (a) | \$0 | 18.6955\% (b) | \$0 |
| 14 | FAS 109 (Asset Account 182.3) | \$ | 42,952,261 | 100.0000\% | \$42,952,261 | 18.6955\% (b) | \$8,030,140 |
| 15 | FAS 109 ( Liability Account 254 ) | \$ | - | 100.0000\% | \$0 | 18.6955\% (b) | \$0 |
| 16 | Total (line 13+14+15) |  | \$42,952,261 |  | \$42,952,261 |  | \$8,030,140 |
| 17 | Transmission Prepayments | \$ | 267,164 | 99.8004\% (a) | \$266,631 | 18.6955\% (b) | \$49,848 |
| 18 | Transmission Materials and Supplies | \$ | 3,525,898 |  | \$3,525,898 | 18.6955\% (b) | \$659,184 |
| 19 | Cash Working Capital |  |  |  |  |  |  |
| 20 | Operation \& Maintenance Expense |  |  |  |  |  | \$7,166,788 |
| 21 | Administrative \& General Expense |  |  |  |  |  | \$6,747,241 |
| 22 | Transmission Support Expense |  |  |  |  |  | \$0 |
| 23 | Subtotal (line 20+21+22) |  |  |  |  |  | \$13,914,029 |
| 24 |  |  |  |  |  |  | 0.1250 |
| 25 | Total (line 23 * line 24) |  |  |  |  |  | \$1,739,254 |
|  | (a) Worksheet 5 Line 11 |  |  |  |  |  |  |
|  | (b) Worksheet 5 Line 3 |  |  |  |  |  |  |
|  | (c) Worksheet 5 Line 16 |  |  |  |  |  |  |



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

Shading denotes an input





Shading denotes an input
PTF Transmission Plant Allocation Factor
PTF Transmission Investment
Percent Allocation (Line 1/Line 2)
Transmission Wages and Salaries Allocation Factor

| Line |
| ---: |
| No. |
|  |
| 1 |
| 2 |
| 3 |

Shading denotes input
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 | HQ Phase II - AC in MA | Pg 332 Line 5 Col (g) |  | \$109,892 |
|  | Bell Rock Road | Page 330.5 Line $12 \mathrm{Col}(\mathrm{n})$ | \$39,828 |  |
|  | Boston Edison -345 kV NH/MA border - Tewksbury 394 Line (Seabrool | Page 330.1 Line 8 Col ( n ) | \$379,686 |  |
| NU | Public Service Co. -Moore 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

|  | Shading denotes an input <br> New England Power Company <br> 2013 Informational Filing <br> PTF Plant Allocation |
| :---: | :---: | :---: |

Sources:
$\begin{array}{ll}1 & \text { PTF Plant Reports for previous year } \\ 2 & \text { PTF Plant Reports for previous year } \\ 3 & \text { Line } 6-\text { Line } 1+\text { Line } 2 \\ 4 & \text { PTF Plant Reports for current year } \\ 5 & \text { PTF Plant Reports for current year } \\ 6 & \text { Line } 4+5\end{array}$
Attachment 2
Shading denotes an input

$$
\begin{aligned}
& \begin{array}{l}
\text { GROSS PLANT ASSOC. WITH HVDC LEASES } \\
\underline{\mathbf{2 0 1 3}}
\end{array} \\
& \\
& \text { Source: } 1 \text { FERC Form 1, Page 422.1, 423.1, Lines } 18+35 \text { col (I); Page 422.2, 423.2, Line } 1 \text { col (I) } \\
& \text { Total miles used per lease agreement } \\
& 3 \text { FERC Form 1, Page 422.1, Lines } 18+35 \mathrm{col} \text { (f); Page 422.2, Line } 1 \mathrm{col} \text { (f) } \\
& \text { Line } 2 \text { / Line } 3 \\
& \text { (a) NEH and NHH are acronyms for two of the three "Hydro Companies, New } \\
& \text { Transmission Corporation, and New England Hydro Transmission Electric } \\
& \text { Company, Inc. (NHH)". }
\end{aligned}
$$



$18.6955 \%$
$\$ 282,862$

New England Power Company
Determination of Book Depreciation on Equity AFUDC
Total Current Year Book Depreciation on Equity AFUDC
Less: Specifically Identified Transmission-Related
Tewksbury Line
Hydro-Quebec
MontaupTransmission
1998 Transmission
1999 Transmission
2000 Transmission
2001 Transmission
2002 Transmission
2003 Transmission
2004 Transmission
2005 Transmission
2006 Transmission
2007 Transmission
2008 Transmission
2009 Transmission
2010 Transmission
2011 Transmission
2012 Transmission
2013 Transmission
Sources:
Line 1 - Line 2
Worksheet 5 - PTF Plant Allocation Factor
Line 3 * Line 4
Line 2
Worksheet 5 - P
Line 7 * Line 8
$\stackrel{\sim}{\infty}$

Shading denotes an input
Shading denotes an input
Attachment 4

|  | New England Determination of the PTF Re | Charges |  |
| :---: | :---: | :---: | :---: |
|  |  | Narragansett $\underline{2013}$ | $\begin{gathered} \text { MECO } \\ \underline{2013} \end{gathered}$ |
| 1 | Total Integrated Facilities Charges | \$98,617,356 | \$15,090,817 |
| 2 | Total 2013 PTF Property | \$535,734,181 | \$24,833,644 |
| 3 | Total Transmission Plant in 2013 | \$624,367,987 | \$53,681,732 |
| 4 | NECO or MECO PTF Plant Allocator | 85.80\% | 46.26\% |
| 5 | PTF Related Integrated Facilities Charge | \$84,617,869 | \$6,981,145 |
| 6 | Total Integrated Facilities |  | \$91,599,014 |
| Sourc |  |  |  |
| 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 |  |  |

Shading denotes an input
2013 FERC Form1 Page 350.46d (page 323.189b) 2013 FERC Form1 Page 350.1d
2013 FERC Form1 Page 350.7d
2013 FERC Form1 Page 350.8d
2013 FERC Form1 Page 350.15d
Line 1 - (Line 2-5)

\$2,418,553
Total Regulatory Commission Expense - NEP Less: New Hampshire PUC Assessment
Less Mass DPU Special Assessment Less: Utility Expenses
Total Federal Assessments
$\stackrel{\circ}{9} 9$

18.6955\%
\$193,433
Revenues: SAP account C4540000, C454000W, C4545000
Revenue for Short-Term Transmission Service under the NEPOOL Tariff

Attachment 7

| Supplemental Filing |  |
| :---: | :---: |
| Pre-97 Revenue | Post-96 Revenue |
|  |  |
| \$144,558,044 (a) | \$158,541,414 |
| \$5,208,613 ${ }^{\text {(0) }}$ | \$0 |
| \$697,433 ${ }_{\text {(c) }}$ | \$0 |
| $(\$ 328,037){ }_{\text {(a) }}$ | $(\$ 926,350){ }^{(1)}$ |
| \$139,718,827 ${ }^{(0)=(a)(b)+(0)+(0)}$ | \$157,615,064 ${ }^{\text {a }}$ |
| N/A | \$55,865,456 |
| \$32,171,756 ${ }^{(1)}$ | $(\$ 28,795,422){ }^{(m)}$ |
| \$171,890,583 ${ }^{(n)=(e)+(1)}$ | \$184,685,097 ${ }^{(0)}$ |



Total of Attachment F - Sections A through I
Total of Attachment F - Section J - Support Revenue
Total of Attachment F - Section K - Support Expense
Total of Attachment F - Section (L through O)
Sub Total - Sum (A through I) - J + K + (L through O)

Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule)

Adjusted Sub Total - Sum (Sub Total + Forecast + True-up)
Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirements \&

Sheet: Input Panel
ISO Annual Transmission Revenue Requirements
per Tariff Attachment F and ISO Agreement Part 2, Section 6.3
Shading denotes an input
Submitted on:

PTF Revenue Requirements

New England Power Company

| $\begin{array}{l}\text { 2013 True－up }\end{array}$ |
| :--- |
| ANNUAL TRUE－UP PERROE COMPLIANCE WTHFERCROE ORDEF |
| Transmission Revenue Requirements（as billed） |
| True－up 2013 Actual Annual RR |
| （Over）／Under（Line 2－Line 1） |
| Per Month（Line 3／12） |
| Total Rate Year（Over）／Under |

－
ーNの $\quad$ に
Pre 97
Post 96

| Initial Billing Period | PRE 97 <br> Balance |  | POST 1996 | FERC Monthly Interest Rate |  | PRE 97 Interest |  | ST 1996 nterest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  | $(106,864)$ |
|  | Total Interest |  |  |  | \$ | 904,908 | \$ | $(1,237,559)$ |
|  |  |  | -Up |  |  | 27,155,371 | \$ | ( $37,137,900$ ) |
|  | Total TU \& Interest |  |  |  | \$ | 28,060,279 | \$ | $(38,375,459)$ |
|  | 2008-2012 PTF True-up (excludes interest) |  |  |  |  | 4,111,477 |  | 9,580,037 |
|  | Total Adjusted TU \& Interest |  |  | \$ |  | 32,171,756 | \$ | $(28,795,422)$ |

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

|  | led: 11.64 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June 11 - Sept 11 |  |  | Pro-rated for 4 months |  |  |  |
|  | 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

|  | FERC Order: 11.07\% Revised ROE Rate |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Oct 11 - May 12 |  |  | Pro-rated for 8 months |  |  |  |
|  | PRE 97 |  | POST 1996 | PRE 97 |  | 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 |  | ,965,794 |
| 2 Transmission Revenue Requirements: Re-Stated |  | 95,332,395 |  | 128,174,379 |  | 3,506,775 |
| (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 months |  |
| :---: | :---: | :---: | :---: |
| PRE 97 | POST 1996 | PRE 97 | POST 1996 |
| \$ 111,428,286 | \$138,305,693 | \$64,999,833.61 | \$ 80,678,321 |
| 112,896,422 | 140,062,632 | 65,856,246 | 81,703,202 |
| \$ 1,468,135 | \$ 1,756,939 | \$ 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 |
| \$ | 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 |
| \$ | 1,479,373 | \$ 1,817,226 | \$ 616,406 | \$ | 757,177 |

1 Transmission Revenue Requirements: As-Filed \& FERC Order
2 Transmission Revenue Requirements: Re-Stated
(Over)/Under Billing (Line 2 - Line 1)

| Combined |  |  |  |
| :---: | :---: | :---: | :---: |
| PRE 97 |  | POST 1996 | Total |
| \$111,901,274 | \$ | 139,646,043 | \$ 251,547,317 |
| 113,374,092 |  | 141,428,102 | 254,802,193 |
| \$ 1,472,818 | \$ | 1,782,058 | \$ 3,254,876 |

Summary of Corrections to ATRR Plant Investment Inputs

Summary of Change in PTF Plant Inputs to Pre 97 and Post 96 ISO Annual Transmission Revenue Requirement 2008-2012

| Line No. | Revised |  | 2008 | 2009 | 2010 | 2011 | 2012 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  | Pre-1997 Transmission Revenue Requirement |  |  |  |  |  |  |
| 1 | Attachment $1 \ln 4$ | PTF Plant* | 353,995,853 | 352,386,820 | 351,115,800 | 349,334,382 | 352,959,991 |
| 2 | Attachment $4 \ln 2$ | Narragansett Total PTF Property** | 170,859,376 | 173,100,030 | 209,109,440 | 234,900,022 | 386,991,881 |
| 3 | Attachment $4 \ln 2$ | Mass Electric Total PTF Property** | 20,288,739 | 21,108,649 | 21,182,153 | 21,875,675 | 24,868,977 |
|  |  |  | 545,143,968 | 546,595,499 | 581,407,393 | 606,110,079 | 764,820,849 |
| Post-1996 Transmission Revenue Requirement |  |  |  |  |  |  |  |
| 4 | Attachment $1 \ln 5$ | PTF Plant* | 503,285,683 | 664,596,724 | 755,657,102 | 819,449,952 | 918,015,798 |
| 5 | Attachment $1 \ln 7$ | Post 2003 PTF Investment Base w/ Incremental 100 bps*** | 188,364,644 | 206,004,443 | 213,120,061 | 213,375,099 | 213,518,137 |
| 6 | Worksheet 2 Pg 1 | NEEWS In-Service w/Incremental 125 bps **** | 774,674 | 5,893,661 | 14,281,610 | 52,962,648 | 56,490,343 |
|  |  |  | 692,425,001 | 876,494,828 | 983,058,773 | 1,085,787,699 | 1,188,024,278 |


| Filed |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pre-1997 Transmission Revenue Requirement |  |  |  |  |  |  |  |
| 7 | Attachment $1 \ln 4$ | PTF Plant | 352,396,942 | 350,766,082 | 351,352,992 | 350,215,608 | 349,727,420 |
| 8 | Attachment $4 \ln 2$ | Narragansett Total PTF Property | 169,846,333 | 172,481,172 | 206,391,771 | 228,545,943 | 380,877,791 |
| 9 | Attachment $4 \ln 2$ | Mass Electric Total PTF Property | 19,073,085 | 19,014,465 | 21,044,551 | 23,325,823 | 24,846,487 |
|  |  |  | 541,316,360 | 542,261,719 | 578,789,314 | 602,087,374 | 755,451,698 |
| Post-1996 Transmission Revenue Requirement |  |  |  |  |  |  |  |
| 10 | Attachment $1 \ln 5$ | PTF Plant | 502,643,379 | 640,156,098 | 725,670,117 | 816,526,816 | 900,658,296 |
| 11 | Attachment $1 \ln 7$ | Post 2003 PTF Investment Base w/ Incremental 100 bps | 190,125,725 | 229,012,126 | 326,955,170 | 327,705,145 | 352,797,993 |
| 12 | Worksheet 2 Pg 1 | NEEWS In-Service w/Incremental 125 bps | 4,279,317 | 10,856,783 | 15,743,593 | 55,119,725 | 59,854,691 |
|  |  |  | 697,048,421 | 880,025,007 | 1,068,368,880 | 1,199,351,686 | 1,313,310,980 |


| Change |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pre-1997 Revenue Requirement |  |  |  |  |  |  |
| 13 | Attachment $1 \ln 4 \quad$ PTF Plant | 1,598,911 | 1,620,738 | $(237,192)$ | $(881,226)$ | 3,232,571 |
| 14 | Attachment $4 \ln 2 \quad$ Narragansett Total PTF Property | 1,013,043 | 618,858 | 2,717,669 | 6,354,079 | 6,114,090 |
| 15 | Attachment $4 \ln 2 \quad$ Mass Electric Total PTF Property | 1,215,654 | 2,094,184 | 137,602 | $(1,450,148)$ | 22,490 |
|  |  | 3,827,608 | 4,333,780 | 2,618,079 | 4,022,705 | 9,369,151 |
| Post-1996 Revenue Requirement |  |  |  |  |  |  |
| 16 | Attachment $1 \ln 5 \quad$ PTF Plant | 642,304 | 24,440,626 | 29,986,985 | 2,923,136 | 17,357,502 |
| 17 | Attachment $1 \ln 7 \quad$ Post 2003 PTF Investment Base w/ Incremental 100 bps | $(1,761,081)$ | $(23,007,683)$ | $(113,835,109)$ | $(114,330,046)$ | $(139,279,856)$ |
| 18 | Worksheet 2 Pg 1 NEEWS In-Service w/Incremental 125 bps | $(3,504,643)$ | $(4,963,122)$ | $(1,461,983)$ | $(2,157,077)$ | $(3,364,348)$ |
|  |  | $(4,623,420)$ | $(3,530,179)$ | $(85,310,107)$ | $(113,563,987)$ | $(125,286,702)$ |
|  |  |  |  |  |  |  |
|  | Total Change to PTF Plant (ln $13+14+15+16)$ | 4,469,912 | 28,774,406 | 32,605,064 | 6,945,841 | 26,726,653 |
|  | Total Change in RSP Plant (ln17) | $(1,761,081)$ | $(23,007,683)$ | $(113,835,109)$ | $(114,330,046)$ | $(139,279,856)$ |
|  | Total Change to NEEWS In-Service (ln 18) | $(3,504,643)$ | $(4,963,122)$ | $(1,461,983)$ | $(2,157,077)$ | $(3,364,348)$ |
|  |  | $(795,812)$ | 803,601 | $(82,692,028)$ | $(109,541,282)$ | (115,917,551) |

[^4]Attachment 4
Exhibit 1
Page 1 of 1
Summary Changes in NEP PTF Revenue Requirements - for June 1, 2014 RNS Rate


* 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.

Sheet: Input Panel
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):
Rates Effective for the Period:
Through:
Customer:
Customer's NABs Number:
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:

|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F-Sections A through I | \$91,613,205 ${ }^{\text {a }}$ | \$88,628,221 ${ }^{(7)}$ |
| Total of Attachment F - Section J - Support Revenue | \$9,231,767 ${ }_{\text {(b) }}$ | \$0 (9) |
| Total of Attachment F - Section K - Support Expense | \$1,381,011 ${ }^{\text {(c) }}$ | \$0 ${ }^{(n)}$ |
| Total of Attachment F - Section (L through O) | $(\$ 708,921)$ (d) | (\$1,007,893) (i) |
| Sub Total - Sum (A through I) - J + $\mathrm{K}+(\mathrm{L}$ through O ) | \$83,053,527 ${ }^{(0)=(a)(b)+(c)+(d)}$ | \$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 Attachment F Implementation Rule) | N/A | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$83,053,527 ${ }^{(n)=(e)+(1)}$ | \$116,606,261 ${ }^{(0)=(0)+(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirem Post-96 Revenue Requirements Subtotals, Forecasted Revenue Requir | nts \& ments | \$199,659,789 $(\mathrm{p})=(\mathrm{n})+(0)$ | and True-ups (including interest)

## New England Power Company

Sheet: Worksheet 1

## Annual Revenue Requirements of PTF Facilities

 for costs in 2008 POST-1996 Shading denotes an input| I. INVESTMENT BASE |
| :--- |
| Transmission Plant |
| General Plant |
| Plant Held For Future Use |
| $\quad$ Total Plant (Lines $1+2+3$ ) |
| Accumulated Depreciation |
| Accumulated Deferred Income Taxes |
| Loss On Reacquired Debt |
| Other Regulatory Assets |
| $\quad$ Net Investment (Line 4-5-6+7+8) |
| Prepayments |
| Materials \& Supplies |
| Cash Working Capital |
| Total Investment Base (Line $9+10+11+12)$ |

Total Investment Base (Line 9+10+11+12)

## II. REVENUE REQUIREMENTS

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
Transmission Related Integrated Facilities Charge
Transmission Support Revenue
Transmission Support Expense
Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff
Transmission Rents Received from Electric Property
Total Revenue Requirements (Line 14 thru 28)

| (A) |  | $\$ 45,902,164$ |
| :---: | ---: | ---: |
| (B) | $2 \%$ | $\$ 11,111,540$ |
| (C) | $0 \%$ | $\$ 134,321$ |
| (D) | $0 \%$ | $(\$ 169,353)$ |
| (E) | $1 \%$ | $\$ 7,031,960$ |
| (F) | $0 \%$ | $\$ 760,792$ |
| (G) | $3 \%$ | $\$ 15,287,279$ |
| (H) | $2 \%$ | $\$ 8,569,518$ |
| (I) |  | $\$ 0$ |
| (J) |  | $\$ 0$ |
| (K) |  | $\$ 0$ |
| (L) |  | $\$ 0$ |
| (M) |  | $\$ 0$ |
| (N) |  | $(\$ 694,521)$ |
| (O) |  | $(\$ 313,372)$ |

Worksheet 2
Worksheet 4, line 3, column 5 Worksheet 4, line 4, column 5 Worksheet 4, line 5, column 5 Worksheet 4, line 6, column 5 Worksheet 4 , line 22 , column 5 Worksheet 4 , line 11, column 5 Worksheet 4, line 21, column 5 Attachment 4, line 6 Worksheet 6 Worksheet 6 Worksheet 7

Attachment 7 Attachment 6

PTF Revenue Requirements
Worksheet 1 of 5

Reference
Worksheet 3 , line $1 \& 2$ column ! Worksheet 3 , line 3 column 5 Worksheet 3 , line 5 column 5

Worksheet 3 , line 8 column 5 Worksheet 3 , line 11 column 5 Worksheet 3, line 12 column 5 Worksheet 3 , line 16 column 5

Worksheet 3, line 17 column 5 Worksheet 3, line 18 column 5 Worksheet 3 , line 25 column 5

New England Power Company

## Forecasted Transmission Revenue Requirements of PTF Facilities



|  | CAPITALIZATION 12/31/2008 | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$410,350,000 | 34.25\% | 2.28\% | 0.78\% |  |
| PREFERRED STOCK | \$1,111,700 | 0.09\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$786,651,891 | 65.66\% | 11.64\% | 7.64\% | 7.64\% |
| TOTAL INVESTMENT RETURN | \$1,198,113,591 | 100.00\% |  | 8.43\% | 7.65\% |

Cost of Capital Rate=
(a) Weighted Cost of Capital

(b) Federal Income Tax

$=\quad 0.0414199$
(c) State Income Tax


$=\quad 0.0067984$
(a) + (b) + (c) Cost of Capital Rate
$=$
0.1325183

|  | (PTF) |  |
| :--- | ---: | :--- |
| INVESTMENT BASE | $\$ 337,166,828$ | From Worksheet 1 |
| x Cost of Capital Rate | 0.1325183 |  |
| = Investment Return and Income Taxes |  | $\$ 44,680,775$ |
|  |  | To Worksheet 1 |

Source: Attachment 2
Post 2003 PTF Investment Base w/ Incremental 100 bps:
Ppant
Accum. Depreciation
Accum. Deferred
Total Post-2003 Investment
Incremental ROE:
FIT:
State Income Taxes:
Cost of Capital Rate
Incremental Return and Taxes on Post-2003 PTF Investment

NEEWS PTF Investment Base w/ Incremental 125 bps:
Plant
Accum. Depreciation
Accum. Deferred
Total NEEWS Investment
Incremental ROE:
FIT:
State Income Taxes:
Cost of Capital Rate

| \$ | 188,364,644 | From Attachment 1 |
| :---: | :---: | :---: |
| \$ | 44,750,429 | From Worksheets 3 \& 5 |
| \$ | 29,584,149 | From Worksheets 3 \& 5 |
| \$ | 114,030,067 | Calculated |
| .00\% | 0.00657 | Calculated |
|  | 0.00354 | Per Attach. F |
|  | 0.00058 | Per Attach. F |
|  | 0.01068 |  |
| ment \$ | 1,218,051 |  |


| NEEWS Allocation Factor |  |
| :--- | ---: |
| Total Trans Investment | $\$ 1,208,005,587$ |
| Total NEEWS In-Service | $\$ 774,674$ |
| For Accum Depreciation | $0.0641 \%$ |
| Post-2003 PTF Allocation Factor | $0.0641 \%$ |
| Plant Allocation Factor | 0.991107 |
| For Accum Deferred | $0.0636 \%$ |

## Sheet: Worksheet 3

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

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

## Sheet: Worksheet 4

Shading denotes an input
4
6

(e) Transmission Only - Property Taxes - Specifically Identified in FERC Form 1
(f) Transmission Only - Amortization of ITC - Specifically Identified in FERC Form 1
(2)
$\begin{gathered}\text { Wage/Plant } \\ \text { Allocation } \\ \text { Factors }\end{gathered}$
99.7176\% (a)
Line
No.
$\begin{array}{r}\text { Line } \\ \text { No. } \\ \hline\end{array}$
1
2
3

Shading denotes an input

| Line <br> No. |  |  | FERC Form 1 |
| ---: | :--- | ---: | :--- |
| Reference |  |  |  |

## 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.

(To Worksheet 3, Line 21, Column 5)

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 | $\$ 857,281,536$ | $100.00 \%$ |
| 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 <br> NO |  | (HVDC) <br> NHH/NEH <br> LEASE |
| :---: | :--- | :---: |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line |  |$\quad$| (a) |
| :---: |

## 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 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 | \$42,457 |
|  | 2000 Transmission | $(\$ 8,299)$ |
|  | 2001 Transmission | \$23,561 |
|  |  | \$364,621 |
| 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 | \$364,621 |
| 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<br>Determination of the PTF Related Integrated Facilities Charges

|  | Narragansett <br> $\mathbf{2 0 0 8}$ | MECO <br> $\underline{\mathbf{2 0 0 8}}$ |  |
| :--- | :--- | ---: | ---: |
| 1 | Total Integrated Facilities Charges $\left(^{*}\right)$ | $\$ 0$ | $\$ 0$ |
| 2 | Total 2008 PTF Property |  | $\$ 0$ |
| 3 | Total Transmission Plant in 2008 | $\$ 0$ | $\$ 0$ |
| 4 | NECO or MECO PTF Plant Allocator | $0.00 \%$ | $0.00 \%$ |
| 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 <br> Development of 2008 Regulatory Commission Expense 

## 2008

## Source

1 Total Regulatory Commission Expense - NEP
2 Less: New Hampshire PUC Assessment
3 Less: Mass Emergency Fund
4 Less Mass DPU Special Assessment
5 Less: Utility Expenses
6 Total Federal Assessments
\$3,589,657
\$42,981
\$0
\$237,488
\$1,449,562
\$1,859,626 Line 1 - (Line 2-5)

| Revenues | $\frac{\mathbf{2 0 0 8}}{\$ 752,168}$ |
| :--- | ---: |
| Plant Allocation Factor | $100.00 \%$ |
| Transmission Allocated | $\$ 752,168$ |
| PTF Allocation | $41.6625 \%$ |
| Total PTF Revenue | $\$ 313,372$ |

New England Power Company
$\underline{2008}$
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

Sheet: Input Panel
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

June 2009
May 2010
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 Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| 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 ${ }^{\text {(b) }}$ | \$0 ${ }^{(9)}$ |
| Total of Attachment F - Section K - Support Expense | \$1,381,011 ${ }^{\text {(c) }}$ | \$0 (h) |
| Total of Attachment F - Section (L through O) | $(\$ 708,921){ }^{(d)}$ | $(\$ 1,007,893){ }^{(1)}$ |
| Sub Total - Sum (A through I) - J + $\mathrm{K}+(\mathrm{L}$ through O ) | \$83,053,527 ${ }^{(\mathrm{e})=(\mathrm{a})-(\mathrm{l})+(\mathrm{c})+(\mathrm{d})}$ | \$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 | $\mathrm{N} / \mathrm{A} \quad{ }^{(\mathrm{m})}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$83,053,527 (n)=(e)+(1) | \$116,606,261 ${ }^{(0)=(0)+(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirem and Post-96 Revenue Requirements Subtotals for rate calculations under | nts the Tariff: | \$199,659,789 ${ }^{(p)=(n)+(0)}$ |

Sheet: Worksheet 1

## \section*{New England Power Company} <br> Annual Revenue Requirements of PTF Facilities

for costs in 2008

| Shading denotes an input |  |
| :--- | :--- |
| Line No. | I. INVESTMENT BASE |
|  | Transmission Plant |
| 2 | General Plant |
| 3 | Plant Held For Future Use |
| 4 | Total Plant (Lines 1+2+3) |
| 5 | Accumulated Depreciation |
| 6 | Accumulated Deferred Income Taxes |
| 7 | Loss On Reacquired Debt |
| 8 | Other Regulatory Assets |
| 9 | Net Investment (Line 4-5-6+7+8) |
| 10 | Prepayments |
| 11 | Materials \& Supplies |
| 12 | Cash Working Capital |
| 13 | Total Investment Base (Line 9+10+11+12) |

II. REVENUE REQUIREMENTS
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
Transmission Related Integrated Facilities Charge
Transmission Support Revenue
Transmission Support Expense
Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff
Transmission Rents Received from Electric Property
Total Revenue Requirements (Line 14 thru 28)

| $(A)$ | $\$ 29,735,176$ |
| :---: | ---: |
| (B) | $\$ 7,815,536$ |
| (C) | $\$ 94,477$ |
| (D) | $(\$ 119,118)$ |
| (E) | $\$ 4,946,078$ |
| (F) | $\$ 535,119$ |
| (G) | $\$ 10,752,632$ |
| (H) | $\$ 6,027,552$ |
| (I) | $\$ 31,825,752$ |
| (J) | $(\$ 9,231,767)$ |
| (K) | $\$ 1,381,011$ |
| (L) | $\$ 0$ |
| (M) | $\$ 0$ |
| (N) | $(\$ 488,504)$ |
| (O) | $(\$ 220,417)$ |

Worksheet 2
Worksheet 4, line 3, column 5
Worksheet 4, line 4, column 5
Worksheet 4, line 5, column 5
Worksheet 4, line 6, column 5
Worksheet 4, line 22, column 5
Worksheet 4, line 11, column 5
Worksheet 4, line 21, column 5
Attachment 4, line 6
Worksheet 6
Worksheet 6
Worksheet 7
Attachment 7
Attachment 6

New England Power Company Annual Revenue Requirements For Costs in 2008

|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2008 \\ \hline \end{gathered}$ | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY <br> PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$410,350,000 | 34.25\% | 2.28\% | 0.78\% |  |
| PREFERRED STOCK | \$1,111,700 | 0.09\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$786,651,891 | 65.66\% | 11.64\% | 7.64\% | 7.64\% |
| TOTAL INVESTMENT RETURN | \$1,198,113,591 | 100.00\% |  | 8.43\% | 7.65\% |

Cost of Capital Rate=


## Sheet: Worksheet 3

| Shading denotes an input |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (2) |  |  | (4) |  |  |
|  |  | (1) | Wage/Plant | $(3)=(1)^{*}(2)$ | PTF | $(5)=(3)^{*}(4)$ |  |
| Line |  |  | Allocation | Transmission | Allocation | PTF | FERC Form 1 |
| No. |  | Total | Factors | Allocated | Factor (b) | Allocated | 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) | \$6,568,211 | 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) | \$4,300,519 | 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
Depreciation Expense
Transmission Depreciation
General Depreciation
$(1)$
Total $(\mathrm{g})$
$\$ 26,331,765$
$\$ 339,557$

| Amortization of Loss on Reacquired Debt | $\$ 322,402$ | $100.0000 \%(f)$ | $\$ 322,402$ | $29.3042 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Amortization of Investment Tax Credits | $\$ 406,488$ | $100.0000 \%(f)$ | $\$ 406,488$ | $29.3042 \%$ |


| 6 | Property Taxes | \$16,878,393 |
| :---: | :---: | :---: |
| Transmission Operation and Maintenance |  |  |
| 7 | Operation and Maintenance | \$63,832,583 |
| 8 | Transmission of Electricity by Others - \#565 | \$16,917,655 |
| 9 | Load Dispatching - \#561 | \$10,221,789 |
| 10 | **Station Expenses \& Rents - \#562 / \#567 | \$0 |
| 11 | O\&M less lines 8, 9 \& 10 | \$36,693,139 |
|  | Transmission Administrative and General |  |
| 12 | Total Administrative and General | \$22,288,359 |
| 13 | less Property Insurance (\#924) | -\$531,974 |
| 4 | less Regulatory Commission Expenses (\#928) | \$3,589,657 |
| 15 | less General Advertising Expense (\#930.1) | \$224,120 |
| 16 | Subtotal [line 12 minus (13 thru 15)] | \$19,006,556 |
| 7 | PLUS Property Insurance alloc. using Plant Allocatior | -\$531,974 |
| 18 | PLUS Regulatory Comm. Exp. | \$1,859,626 |
| 9 | PLUS Specifically identifed $T$ T rans. Related General Adverising Expense | \$224,120 |
| 0 | PLUS Specifically identified Trans. Related Regulatory Expense | \$76,055 |
| 21 | Total A\&G [line 16 + (17 thru 20)] | \$20,634,383 |
| 22 | Payroll Tax Expense | \$1,831,256 |

(a) Worksheet 5 of 6 , line 11
(b) Worksheet 5 of 8 , line 3
(c) Worksheet 5 of 8 , line 16
(d) Payroll taxes FERC Form 1, page 263.i
Federal Unemployment
FICA
Payroll Taxes
State Unemployment
$\quad$ Total

| $-\$ 1,709$ |
| ---: |
| $\$ 1,832,965$ |
| $\$ 0$ |
| $\$ 0$ |
| $\$ 1,831,256$ |

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

[^5]

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.

| Participant | PTF Supporting Facilities | FERC Form 1 | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Revenues <br> (a) | Expenses <br> (b) |
| BECO | 345 kV Sherman - Medway 336 line |  |  |  |
|  | : 115 kV Somerville 402 Substation |  |  |  |
|  | T15/345 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 | 1 Pg 332 Line 5 Col (g) |  | \$100,648 |
|  | '345 kV "stabilizer" 342 line | Pg 332 Line 3 Col (g) |  | \$171,978 |
|  | i 345 kV Walpole - Medway 325 line |  |  |  |
|  | T345 kV Carver-Walpole 331 line | Pg 332 Lines 12 \& 13 Col (g) |  | \$306,744 |
|  | 1345 kV Jordan Rd - Canal 342 line |  |  |  |
| CEC | Second Canal line | 'Pg 332 Line 4 Col (g) |  | \$47,040 |
|  | 345 kV Pilgrim-Bridgewater-355 line |  |  | \$0 |
|  | '345 kV Myles Standish - Canal 342 line |  |  | \$0 |
|  | 'Bell Rock Road | 'Page 330.5 Line 12 | \$17 |  |
| CMP | 335 kV Buxton-South Gorham 386 line | Page 332.1, Line 4 |  | \$0 |
|  | 115 kV Wyman 164 -167 lines | PPg 332.1 Line 3 Col (g) |  | \$0 |
|  | 115 kV Maine Yankee transmission |  |  |  |
|  |  |  |  |  |
| NEP | 345 kV Carver - Walpole 331 line |  |  |  |
|  | ' 345 kV Medway - Bridgewater 344 Line | P-g 330.5, Line 11 | \$92 |  |
|  | Northern Rhode Island transmission | Reflect in Integr: Fac. Chg wksh1 |  | N/ $/$ A |
|  |  |  |  |  |
| NEP | Chester SvC | ITx Billing |  | \$730,025 |
|  | Fitchburg Support | See Attachment 9 |  | \$0 |
|  | MWRA Transmission (MDC) | Contract |  | \$10,000 |
| VT Elec Co. | Comerford 115 kV Substation | Page 328.1 Line 12 | \$42 |  |
|  | Boston-Edison [345 kV Sandy-Tewksbury 337 line |  |  |  |
|  | 345 kV Tewksbury-woburn 338 line] | Page 330 Line 4 | \$903 |  |
|  | Boston-Edison [115 kV Tewksbury-woburn M139 line |  |  |  |
|  | 115 kV Tewksbury - Woburn N140 line] | Page 330 Line 3 | \$160 |  |
|  | Public Service Co.-Moore 115 kV Substation | Page 330.1 Line 5 |  |  |
|  | Hophase II-AC in MA | Page 330 -ine 11 | \$4,616 |  |
|  | Boston Edison -345 kV Golden Hills-Mystic 349 line | Page 330 Line 2 | \$562 |  |
|  | 345 kV NHIMA border-Tewksbury 394 line (Seabrook) | Page 330.1 Line 8 | \$2,821 |  |
|  |  |  |  |  |
|  |  |  |  |  |
| NU | \|PSNH $345 \mathrm{kV} 363,369$ and 394 Seabrook lines | P-age 332 Line 11 |  | \$0 |
|  | FFairmont 115 kV Substation |  |  |  |
|  | S 345 kV Millstone-Manchester 310 line | Page 332.1 Line 5 |  | \$0 |
|  | UUI Substations |  |  |  |
|  | Black Pond |  |  |  |
| Total $=$ |  |  | \$9,231 | \$1,381,011 |


| New England Power Company |  |
| :---: | :---: |
| 2008 Informational Filing | Percent |
| PTF Plant Allocation | Pre |
|  | Post |

12007 Pre-1997 PTF Transmission Plant \$358,707,072
22007 Post-1996 PTF Transmission Plant \$457,529,370
32008 Additions/Retirements \$41,045,094
42008 Pre-1997 PTF Transmission Plant \$353,995,853
41.29\%

52008 Post-1996 PTF Transmission Plant $\$ 503,285,683 \quad 58.71 \%$
62008 Total PTF Transmission Plant $\$ 857,281,536 \quad 100.00 \%$

## 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

$\left.\begin{array}{llr}\begin{array}{c}\text { LINE } \\ \text { NO }\end{array} & & \begin{array}{c}\text { (HVDC) } \\ \text { NHH/NEH }\end{array} \\ \text { LEASE }\end{array}\right]$

## Source:

1 FERC Form 1, Page 422.1-423.1, Lines 5 + 16
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

Total Current Year Book Depreciation on Equity AFUDC
2008

Less: Specifically Identified Transmission-Related 2002 Transmission 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 $\quad(\$ 8,299)$
2001 Transmission \$23,561
\$364,621
Total Unidentified Book Depreciation on Equity AFUDC \$387,375
Plant Allocator Factor
99.1107\%

Allocated Transmission Related Book Depreciation on Equity AFUDC
\$383,930
Plus: Specifically Identified Transmission-Related Equity AFUDC
Total Transmission-Related Equity AFUDC
\$364,621

Pre-97 PTF Allocation Factor
\$748,551

Transmission-Related Equity AFUDC
29.3042\%
\$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

Shading denotes an input

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

|  |  | Narragansett <br> $\mathbf{2 0 0 8}$ | MECO <br> $\mathbf{2 0 0 8}$ |
| :--- | :--- | ---: | ---: |
|  |  | $\underline{2}$ |  |
| 1 | Total Integrated Facilities Charges $\left(^{*}\right)$ | $\$ 38,882,752$ | $\$ 8,331,313$ |
| 2 | Total 2008 PTF Property | $\$ 170,859,376$ | $\$ 20,288,739$ |
| 3 | Total Transmission Plant in 2008 | $\$ 237,350,850$ | $\$ 44,069,025$ |
| 4 | NECO or MECO PTF Plant Allocator | $71.99 \%$ | $46.04 \%$ |
| 5 | PTF Related Integrated Facilities Charge | $\$ 27,990,137$ | $\$ 3,835,616$ |
| 6 | Total Integrated Facilities |  | $\mathbf{\$ 3 1 , 8 2 5 , 7 5 2}$ |

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

## 2008

\$3,589,657
\$42,981
\$0
\$237,488
\$1,449,562
\$1,859,626

Source

1 Total Regulatory Commission Expense - NEP
2 Less: New Hampshire PUC Assessment
3 Less: Mass Emergency Fund
4 Less Mass DPU Special Assessment
5 Less: Utility Expenses

6 Total Federal Assessments

FERC FF1 p350.46d
FERC FF1 p350.2d
FERC FF1 p350.7d
FERC FF1 p350.8d
FERC FF1 p350.46c
Line 1 - (Line 2-5)

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

## 2008

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:

| Revenue Requirements for (year): |
| :--- |
| Calendar Year 2009 <br> Rates Effective for the Period: <br> Through: |
| June 2010 <br> May 2011 |

Customer's NABs Number:
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:

|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F - Sections A through I | \$90,404,997 ${ }^{\text {(a) }}$ | \$110,240,121 ${ }^{(f)}$ |
| Total of Attachment F - Section J - Support Revenue | \$7,130,058 ${ }^{\text {(b) }}$ | \$0 ${ }^{(9)}$ |
| Total of Attachment F - Section K - Support Expense | \$963,053 ${ }^{\text {(c) }}$ | \$0 ${ }^{(n)}$ |
| Total of Attachment F - Section (L through O) | $(\$ 547,552){ }^{\text {(d) }}$ | $(\$ 1,032,676){ }^{\text {(i) }}$ |
| Sub Total - Sum (A through I) - J + K + (L through O) | \$83,690,440 ${ }^{(e)=(a)-(b)+(0)+(d)}$ | \$109,207,445 () |
| 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 ${ }^{(1)}$ | $\mathrm{N} / \mathrm{A} \quad{ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$83,690,440 ${ }^{(n)=()+(1)}$ | \$134,379,008 ${ }^{(0)=(0)+(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requireme Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require | nts \& ments | \$218,069,448 ${ }^{(p)=(n)+(0)}$ |

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

$+$

| Line No. |
| :---: |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |

Shading denotes an input
I. INVESTMENT BASE
Transmission Plant
General Plant
Plant Held For Future Use
$\quad$ Total Plant (Lines $1+2+3$ )
Accumulated Depreciation
Accumulated Deferred Income Taxes
Loss On Reacquired Debt
Other Regulatory Assets
$\quad$ Net Investment (Line 4-5-6+7+8)
Prepayments
Materials \& Supplies
Cash Working Capital
Total Investment Base (Line $9+10+11+12$ )

Attachment F

| Reference | NEP |
| :---: | :---: |
| Section: |  |
| (A)(1)(a) | \$664,596,724 |
| (A)(1)(b) | \$3,164,504 |
| (A)(1)(c) | \$496,668 |
|  | \$668,257,896 |
| (A)(1)(d) | \$148,983,596 |
| $(\mathrm{A})(1)(\mathrm{e})$ | \$134,031,553 |
| (A)(1)(f) | \$478,726 |
| $(\mathrm{A})(1)(\mathrm{g})$ | \$29,678,590 |
|  | \$415,400,063 |
| $(\mathrm{A})(1)(\mathrm{h})$ | \$0 |
| (A)(1)(i) | \$1,877,837 |
| $(\mathrm{A})(1)(\mathrm{j})$ | \$3,777,107 |

$\$ 421,055,007$

## II. REVENUE REQUIREMENTS

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
Transmission Related Integrated Facilities Charge
Transmission Support Revenue
Transmission Support Expense
Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff
Transmission Rents Received from Electric Property

| $(A)$ | $\$ 55,185,546$ |
| ---: | ---: |
| (B) | $\$ 13,815,406$ |
| (C) | $\$ 141,733$ |
| (D) | $(\$ 196,264)$ |
| (E) | $\$ 10,128,938$ |
| (F) | $\$ 947,908$ |
| (G) | $\$ 16,615,219$ |
| (H) | $\$ 13,601,635$ |
| (I) | $\$ 0$ |
| (J) | $\$ 0$ |
| (K) | $\$ 0$ |
| (L) | $\$ 0$ |
| (M) | $\$ 0$ |
| (N) | $(\$ 603,747)$ |
| (O) | $(\$ 428,929)$ |

Worksheet 2
Worksheet 4, line 3, column 5 Worksheet 4, line 4, column 5 Worksheet 4 , line 5, column 5 Worksheet 4, line 6, column 5 Worksheet 4 , line 22 , column 5 Worksheet 4, line 11, column 5 Worksheet 4 , line 21 , column 5

Attachment 4, line 6 Worksheet 6 Worksheet 6 Worksheet 7

Attachment 7 Attachment 6

## New England Power Company

## Forecasted Transmission Revenue Requirements of PTF Facilities

| POST-1996 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Shading denotes an input |  |  |  |  |  |
|  | I. FORECASTED TRANSMISSION REVENUE REQUIREMENTS | Period | Attachment F 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

| Investment Return and Income Taxes | (A) | \$55,185,546 | Summary, line 14 |
| :---: | :---: | :---: | :---: |
| Depreciation Expense | (B) | 13,815,406 | Summary, line 15 |
| Amortization of Loss on Reacquired Debt | (C) | 141,733 | Summary, line 16 |
| Investment Tax Credit | (D) | $(196,264)$ | Summary, line 17 |
| Property Tax Expense | (E) | 10,128,938 | Summary, line 18 |
| Payroll Tax Expense | (F) | 947,908 | Summary, line 19 |
| Operation \& Maintenance Expense | (G) | 16,615,219 | Summary, line 20 |
| Administrative \& General Expense | (H) | 13,601,635 | Summary, line 21 |
| Total Expenses (Lines 4 thru 11) |  | \$110,240,121 |  |
| PTF Transmission Plant | $(\mathrm{A})(1)(\mathrm{a})$ | \$664,596,724 | Summary, line 1 |
| Carrying Charge Factor (Lines 12/13) |  | 16.59\% |  |

# New England Power Company <br> Annual Revenue Requirements <br> For Costs in 2009 

Shading denotes an input

|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2009 \\ \hline \end{gathered}$ | $\begin{gathered} \text { CAPITALIZATION } \\ \text { RATIOS } \\ \hline \end{gathered}$ | COST OF CAPITAL | COST OF CAPITAL | EQUITY PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$410,350,000 | 35.48\% | 1.58\% | 0.56\% |  |
| PREFERRED STOCK | \$1,111,700 | 0.10\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$745,076,320 | 64.42\% | 11.64\% | 7.50\% | 7.50\% |
| TOTAL INVESTMENT RETURN | \$1,156,538,020 | 100.00\% |  | 8.07\% | 7.51\% |

## Cost of Capital Rate=

| (b) Federal Income Tax | $=$ | ( | R.O.E. + | $($ | PTF Inv. <br> Eq. AFUDC <br> (Tax Credit $+\quad$ of of Deprec <br> Exp. |  |  |  | ) | PTF Inv. Base) |  | x | Federal Income Tax Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 |  |  |  |  |  |  |  |  | - | Federal Income Tax Rate |
|  | $=$ | ( | 0.0751 | +( | $(\$ 196,264)$ | + |  | \$433,647) | ) | \$421,055,007 | ) | $x$ | 0.35 |
|  |  |  | 1 |  | (\$106,264) |  |  |  |  |  |  |  | 0.35 |


(a) + (b) + (c) Cost of Capital Rate
$\qquad$
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

## Source: Attachment 2

| Post 2003 PTF Investment Base w/ Incremental 100 bps : |  |  |
| :---: | :---: | :---: |
| Plant | \$ | 206,004,443 |
| Accum. Depreciation | \$ | 45,482,926 |
| Accum. Deferred | \$ | 41,220,054 |
| Total Post-2003 Investment | \$ | 119,301,463 |
| Incremental ROE: 1.00\% |  | 0.00644 |
| FIT: |  | 0.00347 |
| State Income Taxes: |  | 0.00056 |
| Cost of Capital Rate |  | 0.01047 |
| Incremental Return and Taxes on Post-2003 PTF Investment | \$ | 1,249,388 |
| NEEWS PTF Investment Base w/ Incremental 125 bps: |  |  |
| Plant | \$ | 5,893,661 |
| Accum. Depreciation | \$ | 1,301,239 |
| Accum. Deferred | \$ | 1,179,281 |
| Total NEEWS Investment | \$ | 3,413,142 |
| Incremental ROE: 1.25\% |  | 0.00438 |
| FIT: |  | 0.00236 |
| State Income Taxes: |  | 0.00038 |
| Cost of Capital Rate |  | 0.00711 |
| Incremental Return and Taxes on NEEWS PTF Investment | \$ | 24,275 |
| NEEWS Allocation Factor |  |  |
| 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\% |

Shading denotes an input

| Line No. |  | (1) <br> Total |
| :---: | :---: | :---: |
| 1 | Transmission Plant |  |
| 2 | Less: Plant Assoc. HVDC Leases |  |
| 3 | General Plant | \$6,563,943 |
| 4 | Total (line 1+2+3) |  |
| 5 | Transmission Plant Held for Future Use | \$1,027,771 |
|  | Transmission Accumulated Depreciation |  |
| 6 | Transmission Accum. Depreciation | \$303,640,607 |
| 7 | General Plant Accum.Depreciation | \$4,666,793 |
| 8 | Total (line 6+7) |  |
|  | Transmission Accumulated Deferred Taxes |  |
| 9 | Accumulated Deferred Taxes (281-283) | -\$430,463,140 |
| 10 | Accumulated Deferred Taxes (190) | \$150,916,705 |
| 11 | Total (line 9+10) |  |
| 12 | Transmission Loss on Reacquired Debt | \$990,643 |
|  | Other Regulatory Assets |  |
| 13 | FAS 106 | \$0 |
| 14 | FAS 109 (Asset Account 182.3) | \$61,414,823 |
| $\begin{aligned} & 15 \\ & 16 \end{aligned}$ | FAS 109 (Liability Account 254 ) Total (line $13+14+15$ ) | $\begin{array}{r} \$ 0 \\ \$ 61,414,823 \end{array}$ |
| 17 | Transmission Prepayments | \$0 |
| 18 | Transmission Materials and Supplies | \$3,885,867 |
| 19 | Cash Working Capital |  |
| 20 | Operation \& Maintenance Expense |  |
| 21 | Administrative \& General Expense |  |
| 22 | Transmission Support Expense |  |
| 23 | Subtotal (line 20+21+22) |  |
| 24 |  |  |
| 25 | Total (line 23 * line 24) |  |

## New England Power Company

| (2) |  | (4) |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Wage/Plant | $(3)=(1)^{*}(2)$ | PTF | $(5)=(3)^{*}(4)$ |  |
| Allocation | Transmission | Allocation | PTF |  |
| Factors | Allocated | Factor (b) | Allocated | Source Reference for Col (1) |
| 99.7633\% (a) | \$0 | 48.3248\% | \$664,596,724 | Attachment 1, Page 1 <br> Attachment 1, Page 2 <br> FERC Form 1 page 207.99 |
|  |  |  | \$0 |  |
|  | \$6,548,406 |  | \$3,164,504 |  |
|  | \$6,548,406 |  | \$667,761,228 |  |
|  | \$1,027,771 | 48.3248\% | \$496,668 | FERC Form 1 page 214.2,4,9 |
| 99.7633\% (a) | \$303,640,607 | $\begin{aligned} & 48.3248 \% \\ & 48.3248 \% \end{aligned}$ | $\begin{array}{r} \$ 146,733,716 \\ \$ 2,249,880 \\ \hline \end{array}$ | FERC Form 1 page 219.25 FERC Form 1 Page 219.28 |
|  | \$4,655,747 |  |  |  |
|  | \$308,296,354 |  | \$148,983,596 |  |
| 99.2163\% | (\$427,089,600) | 48.3248\% | (\$206,390,195) | FERC Form 1 page 113.62-64 |
| 99.2163\% | \$149,733,971 | 48.3248\% | \$72,358,642 | FERC Form 1 page 111.82 |
|  | $\underline{(\$ 277,355,629)}$ |  | (\$134,031,553) |  |
| 100.0000\% | \$990,643 | 48.3248\% | \$478,726 | FERC Form 1 Page 111.81c |
| $\begin{aligned} & 99.7633 \% \text { (a) } \\ & 100.0000 \% \\ & 100.0000 \% \end{aligned}$ | $\$ 0$$\$ 61,414,823$$\$ 0$$\$ 61,414,823$ | $\begin{aligned} & 48.3248 \% \\ & 48.3248 \% \\ & 48.3248 \% \end{aligned}$ | $\$ 0$ <br> $\$ 29,678,590$ <br> $\$ 0$ <br> $\$ 29,678,590$ |  |
|  |  |  |  | FERC Form 1 Page 232.7f |
|  |  |  |  |  |
| 99.7633\% (a) | \$0 | 48.3248\% | \$0 | FERC Form 1 Page 111.57c |
|  | \$3,885,867 | 48.3248\% | \$1,877,837 | FERC Form 1 Page 227.8c |
|  |  |  | \$16,615,219 | Worksheet 1, Line 20 |
|  |  |  | \$13,601,635 | Worksheet 1, Line 21 |
|  |  |  | \$0 | Worksheet 6 |
|  |  |  | \$30,216,854 |  |
|  |  |  | 0.1250 | x $45 / 360$ |
|  |  |  | \$3,777,107 |  |

(a) Worksheet 6 Line 11
(b) Worksheet 6 Line 3


[^6]Shading denotes an input


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.

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Participant | PTF Supporting Facilities | FERC Form 1 | Revenues | Expenses |
| BECO | 345 kV Sherman - Medway 336 line |  |  |  |
|  | 115 kV Somerville 402 Substation |  |  |  |
|  | [115/345 kV North Cambridge 509 Substation | , |  |  |
|  | i $345 \mathrm{5V}$ G Golden Hills -Mystic 389 (xey) line |  |  | \$0 |
|  | West Medway 345 kv breaker | P--- 3 - |  | \$0 |
|  | 115-2v Millbury-Medway 2011 line | Page 332 Line 2 Column (g) |  | \$0 |
|  | :HQ Phasell: AC $^{\text {in M }}$ MA | Page 332 Line 5 Column (g) |  | \$0 |
|  | 345 kV "stabilizer- 342 line | Prage 332 Line 3 Column (9) |  | \$0 |
|  | 3 345 kV Walpole - Medway 325 line |  |  |  |
|  | 345 kv Carver-Walpole 331 line | Page 332 Line 4 Column (9) |  | \$0 |
|  | 1345 kV Jordan Rd--Canal 342 line |  |  |  |
| CEC | Second Canal line |  |  |  |
|  |  | - |  | ${ }^{\text {¢ }} 0$ |
|  | '345 kV Myles Standish-Canal 342 ine |  |  | \$0 |
|  | Beil Rock Road |  |  | \$0 |
| CMP | 1345 kV Buxton-South Gorham 386 line |  |  | \$0 |
|  | :115 kv wyman 164-167 lines | :Page 33.1. Line 3 |  | \$0 |
|  | 115 kV Maine Yankee transmssion |  |  |  |
|  |  |  |  |  |
| EUA | ! 345 kV Carver - Walpole 331 line |  |  |  |
|  | 345-kV Medway-Bridgewater 344Line |  |  |  |
|  | NNorthern Rhode island transmission |  |  | N/A- |
| NEP | IChester SvC |  |  | \$0 |
|  | FFitchburg Support |  |  | \$0 |
|  | MWWA Transmission |  |  | \$0 |
|  | \|Comerford 115 kV Substation | Page 330.1Line 12 |  |  |
|  | Boston-Edison [345 kv Sandy-Tewksbury 337- line |  |  |  |
|  | - 345 kV Tewksbury-Woburn 338 line] | Page 330 Line 4 |  |  |
|  | Boston-Edison [115 kV Tewksbury - Woburn M139 line |  |  |  |
|  | 115 kV Tewksbury - Woburn N140 line] | Page 330 Line 3 |  |  |
|  | Public Service Co. -Moore 115 kv Substation | Page 330.1 Line 5 |  |  |
|  | 'Hophasell: AC in MA | Page 300 -ine 10 |  | \$0 |
|  | Booston Edison-345 kv Golden Hills-Mystic 349 line | Page 300 Line 2 |  |  |
|  | 3 3- 3 - NHMA border-Tewksbury 394 line | Page 300.1 Line 8 |  | \$0 |
|  | 111--kv Read -Washington v148 line | Page 300.1Line 3 |  | \$0 |
|  |  |  |  |  |
| NU | IPSNH 345 kV 363, 369 and 394 Seabrook lines | Prage 332 Line $11 \&$ M Montuap |  | \$0 |
|  | FFairmont 115 kV Substation |  |  |  |
|  | 345 kV Millstone-Manchester 310 line | Page 332.1Line 5 |  | \$0 |
|  | [UISUbstations |  |  |  |
|  | 'Black Pond |  |  |  |
|  | Total = |  |  | \$0 |

New England Power Company<br>2009 Informational Filing PTF Plant Allocation

| 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

## Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES 2009

| $\begin{gathered} \text { LINE } \\ \mathrm{NO} \end{gathered}$ |  | $\begin{aligned} & \text { (HVDC) } \\ & \text { NHH/NEH } \\ & \text { LEASE } \end{aligned}$ |
| :---: | :---: | :---: |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line | \$0 |
|  | Allocation |  |
| 2 | Miles used by NHH (a) | 0 |
| 3 | Total miles at Comerford Station | 0 |
| 4 | Percentage of Total Gross Plant leased by NHH (a) | 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 <br> Determination of Book Depreciation on Equity AFUDC 

|  |  | $\underline{2009}$ |
| :---: | :---: | :---: |
| 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 | \$23,561 |
|  |  | \$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 | \$513,021 |
| 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<br>Determination of the PTF Related Integrated Facilities Charges

|  | Narragansett <br> $\underline{\mathbf{2 0 0 9}}$ | MECO <br> $\underline{\mathbf{2 0 0 9}}$ |  |
| :--- | :--- | ---: | ---: |
| 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

# Attachment 5 

New England Power Company
Development of 2009 Regulatory Commission Expense

Line

1 Total Regulatory Commission Expense - NEP
2 Less: New Hampshire PUC Assessment
3 Less: Mass Emergency Fund
4 Less Mass DPU Special Assessment
5 Less: Utility Expenses
6 Total Federal Assessments

2009
\$4,241,188 \$54,748
\$249,867
\$0
\$1,328,369
\$2,608,204

Source
FERC Form1 Page 350.46d
FERC Form1 Page 350.2d
FERC Form1 Page 350.7d
FERC Form1 Page 350.8d
FERC Form1 Page 350.46c
Line 1 - (Line 2-5)

# Transmission Rents Received from Electric Property New England Power Company 

| Revenues | $\frac{\mathbf{2 0 0 9}}{\$ 887,595}$ |
| :--- | :--- |
| 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

# New England Power Company 

2009
Revenues $\quad \$ 923,870$
Post-96 PTF Percent ..... 65.3498\%
Total Post-96 PTF Revenue ..... \$603,747

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):
Rates Effective for the Period:
Through:
Customer:

Customer's NABs Number:
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:

|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F-Sections A through I | \$90,404,997 ${ }^{\text {(a) }}$ | \$110,240,121 ${ }^{(f)}$ |
| Total of Attachment F-Section J - Support Revenue | \$7,130,058 ${ }^{(0)}$ | \$0 ${ }^{(9)}$ |
| Total of Attachment F - Section K - Support Expense | \$963,053 (c) | \$0 ${ }^{(n)}$ |
| Total of Attachment F - Section ( L through O) | $(\$ 547,552){ }^{\text {(d) }}$ | $(\$ 1,032,676){ }^{\text {(1) }}$ |
| Sub Total - Sum (A through I) - J $+\mathrm{K}+(\mathrm{L}$ 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 Rule) | N/A ${ }^{(1)}$ | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$83,690,440 ${ }^{(n)=(e)+(1)}$ | \$134,379,008 ${ }^{(0)=(0)+(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requireme and Post-96 Revenue Requirements Subtotals for rate calculations under | nts the Tariff: | \$218,069,448 ${ }^{(p)=(n)+(0)}$ |

## New England Power Company

## Annual Revenue Requirements of PTF Facilities

For Costs in 2009

## PRE-1997

|  |
| :---: |
| Line No. |
| 1 |
| 2 |
| 3 |
| 4 |
|  |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |

Shading denotes an input

|  | Attachment F |  |
| :---: | :---: | :---: |
| I. INVESTMENT BASE | Reference | NEP |
|  | Section: |  |
| Transmission Plant | (A)(1)(a) | \$339,300,092 |
| General Plant | (A)(1)(b) | \$1,677,905 |
| Plant Held For Future Use | $(\mathrm{A})(1)(\mathrm{c})$ | \$263,347 |
| Total Plant (Lines 1+2+3) |  | \$341,241,344 |
| Accumulated Depreciation | (A)(1)(d) | \$78,995,083 |
| Accumulated Deferred Income Taxes | $(\mathrm{A})(1)(\mathrm{e})$ | \$71,067,110 |
| Loss On Reacquired Debt | $(\mathrm{A})(1)(\mathrm{f})$ | \$253,833 |
| Other Regulatory Assets | $(\mathrm{A})(1)(\mathrm{g})$ | \$15,736,382 |
| Net Investment (Line 4-5-6+7+8) |  | \$207,169,366 |
| Prepayments | $(\mathrm{A})(1)(\mathrm{h})$ | \$0 |
| Materials \& Supplies | $(\mathrm{A})(1)(\mathrm{i})$ | \$995,680 |
| Cash Working Capital | $(\mathrm{A})(1)(\mathrm{j})$ | \$2,002,723 |
| Total Investment Base (Line 9+10+11+12) |  | \$210,167,769 |

II. REVENUE REQUIREMENTS

| Investment Return and Income Taxes | (A) | $\$ 26,914,505$ |
| :--- | ---: | ---: |
| Depreciation Expense | (B) | $\$ 7,325,298$ |
| Amortization of Loss on Reacquired Debt | (C) | $\$ 75,151$ |
| Investment Tax Credit | (D) | $(\$ 104,065)$ |
| Property Tax Expense | (E) | $\$ 5,370,633$ |
| Payroll Tax Expense | (F) | $\$ 502,606$ |
| Operation \& Maintenance Expense | (G) | $\$ 8,809,833$ |
| Administrative \& General Expense | (H) | $\$ 7,211,949$ |
| Transmission Related Integrated Facilities Charge | (I) | $\$ 34,299,087$ |
| Transmission Support Revenue | (J) | $(\$ 7,130,058)$ |
| Transmission Support Expense | (K) | $\$ 963,053$ |
| Transmission Related Expense from Generators | (L) | $\$ 0$ |
| Transmission Related Taxes and Fees Charge | (M) | $\$ 0$ |
| Revenue for ST Trans. Service Under NEPOOL Tariff | (N) | $(\$ 320,123)$ |
| Transmission Rents Received from Electric Property | (O) | $(\$ 227,429)$ |
|  |  |  |
| Tral |  |  |

[^7]New England Power Company
Annual Revenue Requirements
$\quad$ For Costs in 2009

Shading denotes an input

|  | $\begin{aligned} & \text { CAPITALIZATION } \\ & 12 / 31 / 2009 \end{aligned}$ | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY <br> PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$410,350,000 | 35.48\% | 1.58\% | 0.56\% |  |
| PREFERRED STOCK | \$1,111,700 | 0.10\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$745,076,320 | 64.42\% | 11.64\% | 7.50\% | 7.50\% |
| TOTAL INVESTMENT RETURN | \$1,156,538,020 | 100.00\% |  | 8.07\% | 7.51\% |

## Cost of Capital Rate=

(a) Weighted Cost of Capita
(b) Federal Income Tax
)+(b) + (c) Cost of Capital Rate

(a) (b) (c) Cost
0.0066011
$\qquad$

|  | (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 |



[^8]

[^9]|  | Shading denotes an input |  |  |
| :---: | :---: | :---: | :---: |
| Line No. |  |  | Source Reference |
|  | PTF Transmission Plant Allocation Factor | NEP |  |
| $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | PTF Transmission Investment | $\begin{gathered} \$ 352,386,820 \\ \$ 1,375,270,230 \end{gathered}$ | Attachment 1, Page 1 <br> 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 | 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 | \$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\% |  |

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 Pg 330.1 Line 8 | $\$$ | $2,821,824$ |
| :---: | :---: | ---: |
| Revised @ 15\% per FERC Order | $\$$ | 423,274 |
| FF1 Adjustment | $\$$ | $\mathbf{2 , 3 9 8 , 5 5 0}$ |

Shading denotes an input

## New England Power Company <br> 2009 Informational Filing <br> PTF Plant Allocation

|  |  |  | Percent <br> 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 $4+5$

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES 2009

$\left.\begin{array}{clr}\text { LINE } \\ \text { NO }\end{array} \quad \begin{array}{c}\text { (HVDC) } \\ \text { NHH/NEH }\end{array}\right)$

## Source:

1 FERC Form 1, Page 422.1-423.1, Lines $5+16$
2 Total miles used per lease agreement
3 FERC Form 1, Page 422.1 Lines $5+16 \mathrm{col}$ (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

2009

Total Current Year Book Depreciation on Equity AFUDC \$900,396

Less: Specifically Identified Transmission-Related 2002 Transmission
\$8,889
2003 Transmission
2004 Transmission
2005 Transmission
\$16,500
\$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
1999 Transmission
2000 Transmission
2001 Transmission
\$13,959
\$42,457
$(\$ 8,299)$
\$23,561
\$513,021
Total Unidentified Book Depreciation on Equity AFUDC \$387,375
Plant Allocator Factor 99.2163\%
Allocated Transmission Related Book Depreciation on Equity AFUDC \$384,339
Plus: Specifically Identified Transmission-Related Equity AFUDC \$513,021
Total Transmission-Related Equity AFUDC
Pre-97 PTF Allocation Factor
25.6231\%

Transmission-Related Equity AFUDC

## 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

Shading denotes an input

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

|  |  | REVISED PTF |  |
| :---: | :---: | :---: | :---: |
|  |  | Narragansett $\underline{2009}$ | $\begin{gathered} \hline \text { MECO } \\ \underline{2009} \\ \hline \end{gathered}$ |
| 1 | Total Integrated Facilities Charges | \$42,294,362 | \$7,830,887 |
| 2 | Total 2009 PTF Property | \$173,100,030 | \$21,108,649 |
| 3 | Total Transmission Plant in 2009 | \$239,329,792 | \$44,568,938 |
| 4 | NECO or MECO PTF Plant Allocator | 72.33\% | 47.36\% |
| 5 | PTF Related Integrated Facilities Charge | \$30,590,238 | \$3,708,849 |
| 6 | Total Integrated Facilities |  | \$34,299,087 |

Source:
1 FF1 Page 330.4 Lines 13 \& $14 \mathrm{Col}(\mathrm{n})$
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 <br> No. | $\underline{2009}$ |  |  |
| ---: | :--- | ---: | ---: |
| 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 | $\$ 1,328,369$ | 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

| Revenues | $\frac{\mathbf{2 0 0 9}}{\$ 887,595}$ |
| :--- | :---: |
| 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

# New England Power Company 

2009RevenuesPre-97 PTF PercentTotal 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

Shading denotes an input

Submitted on:

| Revenue Requirements for (year): | Calendar Year 2010 |
| :---: | :---: |
| Rates Effective for the Period: | June 2011 |
| Through: | 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 |  |


|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F - Sections A through I | \$88,866,750 ${ }^{\text {(a) }}$ | \$121,119,799 ${ }^{(7)}$ |
| Total of Attachment F - Section J - Support Revenue | \$6,543,377 ${ }^{\text {(0) }}$ | \$0 (9) |
| Total of Attachment F - Section K - Support Expense | \$881,501 ${ }^{(c)}$ | \$0 ${ }^{(n)}$ |
| Total of Attachment F - Section (L through O) | (\$1,159,454) (d) | (\$2,495,328) (i) |
| Sub Total - Sum (A through I) - J + $\mathrm{K}+(\mathrm{L}$ through O) | \$82,045,420 ${ }^{(\mathrm{e})=(\mathrm{a}) \cdot(\mathrm{l})+(\mathrm{c})+(\mathrm{d})}$ | \$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 | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$82,045,420 ${ }^{(n)=(e)+(1)}$ | \$137,757,717 ${ }^{(0)=()+1(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requireme Post-96 Revenue Requirements Subtotals, Forecasted Revenue Requir and True-ups (including interest) | nts \& ments | \$219,803,137 ${ }^{(p)=(n)+(0)}$ |

New England Power Company

## Annual Revenue Requirements of PTF Facilities

For Costs in 2010

## POST-1996

|  |
| :---: |
| Line No. |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |

Shading denotes an input

## I. INVESTMENT BASE <br> Transmission Plant <br> General Plant <br> Plant Held For Future Use <br> Total Plant (Lines 1+2+3) <br> Accumulated Depreciation <br> Accumulated Deferred Income Taxes <br> Loss On Reacquired Debt <br> Other Regulatory Assets <br> Net Investment (Line 4+5+6+7+8) <br> Prepayments <br> Materials \& Supplies <br> Cash Working Capital <br> Total Investment Base (Line 9+10+11+12)

## II. REVENUE REQUIREMENTS

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
Transmission Related Integrated Facilities Charge
Transmission Support Revenue
Transmission Support Expense
Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff
Transmission Rents Received from Electric Property

| $(A)$ | $\$ 59,812,781$ |
| :---: | ---: |
| (B) | $\$ 16,593,368$ |
| (C) | $\$ 149,309$ |
| (D) | $(\$ 201,661)$ |
| (E) | $\$ 11,520,944$ |
| (F) | $\$ 1,049,911$ |
| (G) | $\$ 16,817,224$ |
| (H) | $\$ 15,377,923$ |
| (I) | $\$ 0$ |
| (J) | $\$ 0$ |
| (K) | $\$ 0$ |
| (L) | $\$ 0$ |
| (M) | $\$ 0$ |
| (N) | $(\$ 1,922,989)$ |
| (O) | $(\$ 572,339)$ |

Total Revenue Requirements (Line 14 thru 28)

| Attachment F <br> Reference | NEP |
| :---: | :---: |
|  | NEP |
| Section: |  |
| (A)(1)(a) | \$755,657,102 |
| (A)(1)(b) | \$3,501,114 |
| (A)(1)(c) | \$523,217 |
|  | \$759,681,433 |
| (A)(1)(d) | $(\$ 168,493,923)$ |
| $(\mathrm{A})(1)(\mathrm{e})$ | (\$160,012,647) |
| (A)(1)(f) | \$355,007 |
| $(\mathrm{A})(1)(\mathrm{g})$ | \$22,586,072 |
|  | \$454,115,942 |
| $(\mathrm{A})(1)(\mathrm{h})$ | \$0 |
| (A)(1)(i) | \$2,273,926 |
| $(\mathrm{A})(1)(\mathrm{j})$ | \$4,024,393 |
|  | \$460,414,261 |

Reference

Worksheet 5, line $1 \& 2$ column 5 Worksheet 5 , line 3 column 5 Worksheet 5 , line 5 column 5

Worksheet 5, line 8 column 5 Worksheet 5 , line 11 column 5 Worksheet 5, line 12 column 5 Worksheet 5, line 16 column 5

Worksheet 5, line 17 column 5 Worksheet 5, line 18 column 5 Worksheet 5, line 25 column 5

## Worksheet 3

Worksheet 6, line 3, column 5 Worksheet 6, line 4, column 5 Worksheet 6, line 5, column 5 Worksheet 6, line 6, column 5 Worksheet 6, line 22, column 5 Worksheet 6, line 11, column 5 Worksheet 6, line 21, column 5 Attachment 4, line 6 Worksheet 8 Worksheet 8

Attachment 7
Attachment 6

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

Shading denotes an input

| 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 | Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA) | Appendix C iv | \$ 73,388,000 | Project Detail |
| 5 | Carrying Charge Factor (CCF) | Appendix C vi | 15.84705\% | 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) |  |  |  |  |
| 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 | PTF Revenue Requirements |
| :---: | ---: |
| Annual Revenue Requirements | Worksheet 4 of 8 |
| For Costs in 2010 |  |

Shading denotes an input

|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2010 \\ \hline \end{gathered}$ | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$410,350,000 | 35.93\% | 1.25\% | 0.45\% |  |
| PREFERRED STOCK | \$1,111,700 | 0.10\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$730,712,039 | 63.98\% | 12.89\% | 8.25\% | 8.25\% |
| TOTAL INVESTMENT RETURN | \$1,142,173,739 | 100.01\% |  | 8.71\% | 8.26\% |

## Cost of Capital Rate=


$=\quad 0.0 .0448230$
(c) State Income Tax

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

|  | Shading denotes an input |  | New England Pow | wer Company |  |  | PTF Revenue Requirements Worksheet 5 of 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  |  |  | (2) |  | (4) |  |  |
|  |  |  | Wage/Plant | $(3)=(1)^{*}(2)$ | PTF | $(5)=(3)^{*}(4)$ |  |
| Line |  | (1) | Allocation | Transmission | Allocation | PTF |  |
| No. |  | Total | Factors | Allocated | Factor (b) | 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) | \$6,877,350 | 50.9079\% (b) | \$3,501,114 | FERC Form 1 page 207.99 |
| 4 | Total (line 1+2+3) |  |  | \$6,877,350 |  | \$759,158,216 |  |
| 5 | Transmission Plant Held for Future Use | \$1,027,771 |  | \$1,027,771 | 50.9079\% (b) | \$523,217 | FERC Form 1 page 214.2,4,9 |
|  | Transmission Accumulated Depreciation |  |  |  |  |  |  |
| 6 | Transmission Accumulated Depreciation | (\$325,966,071) |  | (\$325,966,071) | 50.9079\% (b) | (\$165,942,481) | FERC Form 1 page 219.25 |
| 7 | General Plant Accumulated Depreciation | $(\$ 5,024,647)$ | 99.7459\% (a) | (\$5,011,879) | 50.9079\% (b) | (\$2,551,442) | FERC Form 1 Page 219.28 |
| 8 | Total (line 6+7) |  |  | (\$330,977,950) |  | (\$168,493,923) |  |
|  | Transmission Accumulated Deferred Taxes |  |  |  |  |  |  |
| 9 | Accumulated Deferred Taxes (281-283) | (\$374,482,727) | 99.2566\% (c) | $(\$ 371,698,822)$ | 50.9079\% (b) | (\$189,224,065) | FERC Form 1 page 113.62-64 |
| 10 | Accumulated Deferred Taxes (190) | \$57,810,678 | 99.2566\% (c) | \$57,380,913 | 50.9079\% (b) | \$29,211,418 | FERC Form 1 page 111.82 |
| 11 | Total (line 9+10) |  |  | (\$314,317,909) |  | (\$160,012,647) |  |
| 12 | Transmission Loss on Reacquired Debt | \$697,351 | 100.0000\% | \$697,351 | 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\% | \$44,366,536 | 50.9079\% (b) | \$22,586,072 | FERC Form 1 Page 232.7f |
| 15 | FAS 109 ( Liability Account 254 ) | \$0 | 100.0000\% | \$0 | 50.9079\% (b) | \$0 | FERC Form 1 Page 278 |
| 16 | Total (line 13+14+15) | \$44,366,536 |  | \$44,366,536 |  | \$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 |  | \$4,466,745 | 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


Shading denotes an input

| Line No. |  |  | Source <br> Reference |
| :---: | :---: | :---: | :---: |
|  | PTF Transmission Plant Allocation Factor | NEP |  |
| 1 | PTF Transmission Investment | \$755,657,102 | Attachment 1, Page 1 |
| 2 | Total Transmission Investment | \$1,484,361,243 | 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 | Direct Transmission Wages and Salaries | \$0 | FERC Form 1 Page 354.14b |
| 5 | Affiliated Company Transmission Wages and Salaries | \$22,444,501 | General Ledger Query |
| 6 | Total Transmission Wages and Salaries (Line 4 + Line 5) | \$22,444,501 |  |
| 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 | \$22,501,688 | General Ledger Query |
| 10 | Total Wages and Salaries net of A\&G (Line 7-8+9) | \$22,501,688 |  |
| 11 | Percent Allocation (Line 6/Line 10) | 99.7459\% |  |
|  | Plant Allocation Factor |  |  |
| 12 | Total Transmission Investment | \$1,484,361,243 | Line 2 |
| 13 | plus Transmission-Related General Plant (Line 2 of Wkst. 3) | \$6,877,350 | Worksheet 5, Line 3, Column 3 |
| 14 | $=$ Revised Numerator (Line $12+$ Line 13) | \$1,491,238,593 |  |
| 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\% |  |
|  | Post-2003 PTF Allocation Factor |  |  |
| 17 | Total Post-2003 PTF Investment | \$ 213,120,061 | Attachment 1 Line 7 |
| 18 | Total Transmission Investment | \$1,484,361,243 | Line 2 |
| 19 | Percent Allocation (Line 17/Line 18) for Post-2003 to Total Tx | 14.3577\% |  |
| 20 | Total Invst in Tx Plant/Total Plant in Serv * |  |  |
| 21 | 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.

|  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: |
| Participant | PTF Supporting Facilities | FERC Form 1 Reference | Revenues | Expenses |
| NSTAR |  |  | (a) | (b) |
|  | 115 kV Millbury-Medway 201 Line | Pg 332 Line 2 Col (g) |  | \$0 |
|  | HQ Phase II - AC in MA | Pg 332 Line 5 Col (g) |  | \$0 |
|  | 345 kV "stabilizer" 342 Line | Pg 332 Line 3 Col (g) |  | \$0 |
|  | 345 kV Carver - Walpole 331 Line | Pg 332 Line 13 Col (g) |  | \$0 |
|  | Second Canal Line | Pg 332 Line 4 Col (g) |  | \$0 |
|  | Bell Rock Road | Page 330.5 Line 12 | \$0 |  |
|  | Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV TewksburyWoburn 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 Co. -Moore 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 (Seabroo | Page 330.1 Line 8 | \$0 |  |
| EUA | 345 kV Medway - Bridgewater 344 Line | Pg 330.5, Line 11 | \$0 |  |
| NEP | Chester SVC | Transmission Billing |  | \$0 |
|  | HQ Phase II - AC in MA | Page 330 Line 11 | \$0 |  |
|  | MWRA Transmission (MDC) | Contract - Line Lease/Use |  | \$0 |
| VT Elec Co. | Comerford 115 kV Substation | Page 330.1 Line 12 | \$0 |  |
|  |  |  |  |  |
|  |  | Totals | \$0 | \$0 |

## Attachment 1

New England Power Company 2010 Informational Filing PTF Plant Allocation

## Percent Pre/Post

12009 Pre-1997 PTF Transmission Plant \$352,386,820
22009 Post-1996 PTF Transmission Plant \$664,596,724
32010 Additions/Retirements \$89,789,358
42010 Pre-1997 PTF Transmission Plant $\$ 351,115,800 \quad 31.72 \%$

52010 Post-1996 PTF Transmission Plant $\$ 755,657,102 \quad 68.28 \%$
62010 Total PTF Transmission Plant $\quad \$ 1,106,772,902 \quad 100.00 \%$
72010 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

## Attachment 2

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES <br> 2010

| $\begin{gathered} \text { LINE } \\ \mathrm{NO} \end{gathered}$ |  | (HVDC) |
| :---: | :---: | :---: |
|  |  | NHH/NEH |
|  |  | LEASE |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line | \$0 |
|  | Allocation |  |
| 2 | Miles used by NHH (a) | 0 |
| 3 | Total miles at Comerford Station | 0 |
| 4 | Percentage of Total Gross Plant leased by NHH (a) | 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

## $\underline{2010}$

Total Current Year Book Depreciation on Equity AFUDC
Less: Specifically identified Transmission-Related
Tewksbury Line
\$980,344

Hydro-Quebec
\$54,708
MontaupTransmission Only 1990-1999
位
1998 Transmission \$13,959
1999 Transmission \$42,457
2000 Transmission $\quad(\$ 8,299)$
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
Total unidentified Book Depreciation on Equity AFUDC
\$387,375
Plant Allocator Factor
99.2566\%

Allocated Transmission Related Book Depreciation on Equity AFUDC
\$384,495
Plus: Specifically Identified Transmission-Related Equity AFUDC
\$592,969
Total Transmission-Related Equity AFUDC
\$977,464

Post-96 PTF Allocation Factor
50.9079\%

Transmission-Related Equity AFUDC
\$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
$\underline{2010}$

MECO
$\underline{2010}$
1 Total Integrated Facilities Charges ..... \$0\$02 Total 2010 PTF Property \$00.00\%\$0
\$0
3 Total Transmission Plant in 20104 NECO or MECO PTF Plant Allocator5 PTF Related Integrated Facilities Charge \$0\$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.  <br> No.  <br>  $\underline{\mathbf{2 0 1 0}}$ | 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 | $\$ 1,861,563$ | FERC Form1 Page 350.46c |
| 6 | Total Federal Assessments | $\$ 2,349,311$ |  |

## Attachment 6

# Transmission Rents Received from Electric Property New England Power Company 

2010

Revenues

Plant Allocation Factor 100.00\%

Transmission Allocated
PTF Allocation

Total PTF Revenue
\$1,124,263
\$1,124,263
50.9079\%
\$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

| Revenues | $\underline{\mathbf{2 0 1 0}}$ |
| :--- | ---: |
| 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

## Shading denotes an input

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: $\qquad$
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:

|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F - Sections A through I | \$88,866,750 ${ }^{\text {a }}$ ( | \$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 ${ }^{\text {(c) }}$ | \$0 ${ }^{(h)}$ |
| Total of Attachment F-Section (L through O) | $(\$ 1,159,454)($ (d) | $(\$ 2,495,328){ }^{\text {(i) }}$ |
| Sub Total - Sum (A through I) - J + K + (L through O) |  | \$118,624,471 |
| Forecasted Transmission Revenue Requirements (per Attachment C to Attachment F Implementation Rule) | N/A | \$19,133,246 ${ }^{\text {(k) }}$ |
| Annual True-up (per Attachment C to Attacment F Im[plementation Rule) | N/A ${ }^{(1)}$ | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$82,045,420 ${ }^{(n)=(e)+(1)}$ | \$137,757,717 ${ }^{(0)=(0)+(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirem and Post-96 Revenue Requirements Subtotals for rate calculations unde | ts <br> he Tariff: | \$219,803,137 $(\mathrm{p})=(\mathrm{n})+(0)$ |

New England Power Company

## Annual Revenue Requirements of PTF Facilities

 For Costs in 2010PRE-1997

Shading denotes an input

| Line No. |
| :---: |
| 1 |
| 2 |
| 3 |
| 4 |
|  |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |

## II. REVENUE REQUIREMENTS

Depreciation Expense
Investment Tax Credit
Property Tax Expense
Payroll Tax Expense

Transmission Support Revenue
Transmission Support Expense


Investment Return and Income Taxes (A)
Amortization of Loss on Reacquired Debt
(B)
(C)
(D)
(E)

Operation \& Maintenance Expense
(F)

Administrative \& General Expense
Transmission Related Integrated Facilities Charge
(H)
(I)

Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff
Transmission Rents Received from Electric Property
Total Revenue Requirements (Line 14 thru 28)

| Attachment F Reference | NEP |
| :---: | :---: |
| Section: |  |
| (A)(1)(a) | \$338,029,073 |
| (A)(1)(b) | \$1,626,789 |
| (A)(1)(c) | \$243,112 |
|  | \$339,898,974 |
| (A)(1)(d) | $(\$ 78,290,517)$ |
| (A)(1)(e) | (\$74,349,701) |
| (A)(1)(f) | \$164,953 |
| (A)(1)(g) | \$10,494,594 |
|  | \$197,918,303 |


| $(\mathrm{A})(1)(\mathrm{h})$ | $\$ 0$ |
| :--- | ---: |
| (A)(1)(i) | $\$ 1,056,577$ |
| (A)(1)(j) | $\$ 1,869,930$ |

\$200,844,810
Reference

Worksheet 3 , line $1 \& 2$ column 5 Worksheet 3 , line 3 column 5 Worksheet 3 , line 5 column 5

Worksheet 3 , line 8 column 5 Worksheet 3 , line 11 column 5 Worksheet 3 , line 12 column 5 Worksheet 3 , line 16 column 5

Worksheet 3, line 17 column 5 Worksheet 3 , line 18 column 5 Worksheet 3 , line 25 column 5

## Worksheet 2

Worksheet 4, line 3, column 5 Worksheet 4 , line 4 , column 5 Worksheet 4, line 5, column 5 Worksheet 4, line 6, column 5 Worksheet 4 , line 22 , column 5 Worksheet 4, line 11, column 5 Worksheet 4 , line 21 , column 5 Attachment 4, line 6

Worksheet 6
Worksheet 6
Worksheet 7

Attachment 7
Attachment 6

## New England Power Company <br> Annual Revenue Requirement <br> For Costs in 2010

Shading denotes an input

|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2010 \\ \hline \end{gathered}$ | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$410,350,000 | 35.93\% | 1.25\% | 0.45\% |  |
| PREFERRED STOCK | \$1,111,700 | 0.10\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$730,712,039 | 63.98\% | 11.64\% | 7.45\% | 7.45\% |
| TOTAL INVESTMENT RETURN | \$1,142,173,739 | 100.01\% |  | 7.91\% | 7.46\% |

Cost of Capital Rate=


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

(a) Worksheet 5 Line 11
(b) Worksheet 5 Line 3
(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. |  |  |
| :---: | :---: | :---: |
|  | PTF Transmission Plant Allocation Factor | NEP |
| 1 | PTF Transmission Investment | \$351,115,800 |
| 2 |  | \$1,484,361,243 |
| 3 | Percent Allocation (Line 1/Line 2) | 23.6543\% |
|  | Transmission Wages and Salaries Allocation Factor |  |
| 4 | Direct Transmission Wages and Salaries | \$0 |
| 5 | Affiliated Company Transmission Wages and Salaries | \$22,444,501 |
| 6 | Total Transmission Wages and Salaries (Line 4 + Line 5) | \$22,444,501 |
| 7 | Total Wages and Salaries | \$0 |
| 8 | Administrative and General Wages and Salaries | \$0 |
| 9 | Affiliated Company Wages and Salaries less A\&G | \$22,501,688 |
| 10 | Total Wages and Salaries net of A\&G (Line 7-8+9) | \$22,501,688 |
| 11 | Percent Allocation (Line 6/Line 10) | 99.7459\% |
|  | Plant Allocation Factor |  |
| 12 | Total Transmission Investment | \$1,484,361,243 |
| 13 | plus Transmission-Related General Plant | \$6,877,350 |
| 14 | = Revised Numerator (Line $12+$ Line 13) | \$1,491,238,593 |
| 15 | Total Plant in Service | \$1,502,407,856 |
| 16 | Percent Allocation (Line 14 / Line 16) | 99.2566\% |

## Source

Reference

## New England Power Company

 Pre-97 RNs Revenue Requirments For Test Year Ended 12/31/2010Input 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

|  |  |  | TO |  |
| :---: | :---: | :---: | :---: | :---: |
| Participant | PTF Supporting Facilities | FERC Form 1 Reference | Revenues | Expenses |
| NSTAR |  |  | (a) | (b) |
|  | 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 TewksburyWoburn 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 Co. -Moore 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 | $\$$ | $\mathbf{2 4 0 , 3 6 7}$ |

Shading denotes an input
New England Power Company
2010 Informational Filing
PTF Plant Allocation

|  |  |  | Percent <br> Pre/Post |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |
| 2 | 2009 | Pre-1997 PTF Transmission Plant | $\$ 352,386,820$ |  |
| 3 | 2009 | Post-1996 PTF Transmission Plant | $\$ 664,596,724$ |  |
| 4 | 2010 | Additions/Retirements | $\$ 89,789,358$ |  |
| 5 | 2010 | Post-1996 PTF Transmission Plant | $\$ 755,657,102$ | $68.28 \%$ |
| 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 $4+5$

Shading denotes an input

GROSS PLANT ASSOC. WITH HVDC LEASES
$\underline{2010}$

|  |  | (HVDC) |
| :---: | :---: | :---: |
| LINE |  | NHH/NEH |
| NO |  | LEASE |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line | \$14,269,187 |
|  | Allocation |  |
| 2 | Miles used by NHH (a) | 224 |
| 3 | Total miles at Comerford Station | 253 |
| 4 | Percentage of Total Gross Plant leased by NHH (a) | 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 |

## Source:

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 $5+16 \mathrm{col}$ (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

Total Current Year Book Depreciation on Equity AFUDC
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
Total Unidentified Book Depreciation on Equity AFUDC \$387,375
Plant Allocator Factor 99.2566\%
Allocated Transmission Related Book Depreciation on Equity AFUDC \$384,495
Plus: Specifically Identified Transmission-Related Equity AFUDC \$592,969
Total Transmission-Related Equity AFUDC
\$977,464
Pre-97 PTF Allocation Factor
23.6543\%

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

Shading denotes an input

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

|  | Narragansett | MECO |  |
| :--- | :--- | ---: | ---: |
|  |  | $\underline{\mathbf{2 0 1 0}}$ | $\underline{\mathbf{2 0 1 0}}$ |
| 1 | Total Integrated Facilities Charges | $\$ 43,062,545$ | $\$ 8,366,692$ |
| 2 | Total 2010 PTF Property | $\$ 209,109,440$ | $\$ 21,182,153$ |
| 3 | Total Transmission Plant in 2010 | $\$ 290,660,448$ | $\$ 45,434,656$ |
| 4 | NECO or MECO PTF Plant Allocator | $71.94 \%$ | $46.62 \%$ |
| 5 | PTF Related Integrated Facilities Charge | $\$ 30,980,427$ | $\$ 3,900,647$ |
| 6 | Total Integrated Facilities |  | $\mathbf{\$ 3 4 , 8 8 1 , 0 7 3}$ |

## Source:

1 FF1 Page 330.4 Lines 13 \& $14 \mathrm{Col}(\mathrm{n})$
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 <br> No. | $\underline{2010}$ |  |  |
| ---: | :--- | ---: | ---: |
| 1 | Sotal 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 | $\$ 1,861,563$ | 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 

| Revenues | $\mathbf{\underline { \mathbf { 2 0 1 0 } }} \mathbf{1 , 1 2 4 , 2 6 3}$ |
| :--- | ---: |
| 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

New England Power Company

$$
\underline{2010}
$$

Revenues
Pre-97 PTF Percent

Total Pre-97 PTF Revenue
\$2,816,506
$31.7243 \%$
\$ 893,517

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

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):
Rates Effective for the Period:
Through:
Customer:
Customer's NABs Number:
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:

|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F-Sections A through I | \$101,550,462 ${ }^{\text {(a) }}$ | \$131,389,736 ${ }^{(7)}$ |
| Total of Attachment F - Section J - Support Revenue | \$5,663,545 ${ }^{(b)}$ | \$0 (9) |
| Total of Attachment F - Section K - Support Expense | \$723,254 (c) | \$0 (h) |
| Total of Attachment F - Section (L through O) | $(\$ 507,986)$ (d) | $(\$ 1,191,607){ }^{\text {(i) }}$ |
| Sub Total - Sum (A through I) - J + K + ( through O) | \$96,102,185 ${ }^{(\mathrm{e})=(\mathrm{a})(\mathrm{l})+(\mathrm{c})+(\mathrm{d})}$ | \$130,198,129 () |
| 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 | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$96,102,185 ${ }^{(n)=(e)+(1)}$ | \$167,246,952 $\quad(0)=(0)+(k)+(m)$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirements \& |  |  |
| Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require | ments | \$263,349,137 ${ }^{(p)=(n)+(0)}$ |



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

Shading denotes an input


## Derivation of Carrying Charge (CCF)

Investment Return and Income Taxes
Depreciation Expense

| (A) | $\$ 62,572,390$ | Summary, Line 14 |
| :---: | :---: | :---: |
| (B) | $17,882,627$ | Summary, Line 15 |
| (C) | 143,011 | Summary, Line 16 |
| (D) | $(203,026)$ | Summary, Line 17 |
| (E) | $13,971,698$ | Summary, Line 18 |
| (F) | $1,165,718$ | Summary, Line 19 |
| (G) | $17,931,179$ | Summary, Line 20 |
| (H) | $14,740,665$ | Summary, Line 21 |
|  | $\$ 128,204,262$ |  |
| (A)(1)(a) | $\$ 819,449,952$ | Summary, Line 1 |
|  | $15.64516 \%$ | Line 18/Line 19 |


|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2011 \\ \hline \end{gathered}$ | 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 | 64.45\% | 11.64\% | 7.50\% | 7.50\% |
| TOTAL INVESTMENT RETURN | \$1,157,668,223 | 100.00\% |  | 7.93\% | 7.51\% |

## Cost of Capital Rate=



|  | (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/ Incremental 100 bps : |  |  |  |
| :---: | :---: | :---: | :---: |
| Plant In-Service | \$ | 213,375,099 | From Attachment 1 |
| Accumulated Depreciation |  | $(46,695,224)$ | From Worksheets 5 \& 7 |
| Accumulate Deferred Income Taxes |  | $(46,311,697)$ | From Worksheets 5 \& 7 |
| Total Post-2003 Investment | \$ | 120,368,177 | Calculated |
| Incremental ROE: $1.00 \%$ |  | 0.00645 | Calculated |
| Federal Income Taxes: |  | 0.00347 | Per Attachment F |
| State Income Taxes: |  | 0.00063 | Per Attachment F |
| Cost of Capital Rate |  | 0.01054 |  |
| Incremental Return and Taxes on Post-2003 PTF Investment | \$ | 1,268,957 |  |
| NEEWS In-Service w/ Incremental 125 bps : |  |  |  |
| New England Power NEEWS In-Service | \$ | 52,962,648 | PowerPlant PTF 4 \& 5 reports - PTF only |
| Accumulated Depreciation |  | $(12,062,457)$ | From Worksheets 3 \& 5 |
| Accumulate Deferred Income Taxes |  | $(11,963,383)$ | From Worksheets 3 \& 5 |
| Total New England Power NEEWS Investment | \$ | 28,936,808 | Calculated |
| Incremental ROE: $1.25 \%$ |  | 0.00806 | Calculated |
| Federal Income Taxes: |  | 0.00434 | Per Attachment F |
| State Income Taxes: |  | 0.00078 | Per Attachment F |
| Cost of Capital Rate |  | 0.01318 |  |
| Incremental Return and Taxes on NEEWS PTF Investment | \$ | 381,325 |  |


| NEEWS Allocation Factor |  |  |
| :---: | :---: | :---: |
| Total Transmission Investment | \$1,593,625,753 | Worksheet 7 Line 2 |
| Total NEEWS In-Service - NEP | \$55,119,725 | Plant Accounting Records |
| For Accumulated Depreciation | 3.4588\% |  |
| NEEWS Allocation Factor | 3.4588\% |  |
| Plant Allocation Factor | 0.992997 | Worksheet 7 Line 16 |
| For Accumulated Deferred Income Taxes | 3.4345\% |  |

Shading denotes an input

|  | CAPITALIZATION | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY <br> 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) Worksheet 7 Line 11
(b) Worksheet 7 Line 3
(c) Worksheet 7 Line 16

## Attachment 4

> Depreciation Expense
> Transmission Depreciation
> General Depreciation

Total (line 1+2)

Amortization of Loss on Reacquired Debt
\$278,121

Amortization of Investment Tax Credits
$\$ 394,835)$

Property Taxes
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 Total Administrative and General
Less: Property Insurance (\#924)
Les: Regulatory Commission Expenses (\#928)
Less: General Advertising Expense (\#990.1)
Subtotal line 12 minus ( 13 thru 15)
Pus: Property Insurance Allocated using Plant Allocatior
Plus: Regulatory Cormission Experse
Plus: Speedifically identifed Trans. Related General Adverising Expense
Pus: Speeifically identified Trans. Related Requiatory Expense
Total A\&G [line $16+(17$ thru 20)]
Payroll Tax Expense

| $(1)$ |
| ---: |
| Total $(\mathrm{g})$ |
| $\$ 34,416,139$ <br> $\$ 361,782$ <br>  <br>  <br> $\$ 278,121$ <br>  <br> $(\$ 394,835)$ <br>  <br> $\$ 27,171,454$ <br>  <br> $\$ 61,295,709$ <br> $\$ 14,532,110$ <br> $\$ 11,891,943$ <br> $\$ 0$ <br> $\$ 34,871,656$ <br> $\$ 30,296,960$ <br> $(\$ 135,569)$ <br> $\$ 4,168,438$ <br> $\$ 0$ <br> $\$ 26,264,091$ <br> $\$ 135,569)$ <br> $\$ 2,605,606$ <br> $\$ 0$ <br> $\$ 0$ <br> $\$ 28,734,128$ <br> $\$ 2,271,348$ |

(d) (d) Payroll taxes FERC Form 1, page 263.i

| Federal Unemployment | $\$ 9,327$ |
| :--- | ---: |
| FICA | $\$ 2,262,021$ |
| Payroll Taxes | $\$ 0$ |
| State Unemployment | $\$ 0$ |
| Total | $\$ 2,271,348$ |

## Transmission Administrative and General

30,296,960
$\$ 30,296,960$
$(\$ 135,569)$
\$4,168,438

## New England Power Company

## Shading denotes an input

| W |
| :---: |

Wage/Plant $\quad(3)=(1)^{*}(2)$

| $\begin{gathered} (5)=(3)^{*}(4) \\ \text { PTF } \end{gathered}$ <br> Allocated | Source Reference for Col (1) |
| :---: | :---: |
| \$17,696,951 | FERC Form 1 Page 336.7b |
| \$185,676 | FERC Form 1 Page 336.10b |
| \$17,882,627 |  |
| \$143,011 | FERC Form 1 Page 117.64c |
| $(\$ 203,026)$ | FERC Form 1 Page 266.8f - Footnote (f) |
| \$13,971,698 | Form 1 Page 263.10,17,23,28,31i - Footnote (e) |


|  |  |  |
| ---: | ---: | ---: |
| $\$ 61,295,709$ | $51.4205 \%$ | $\$ 31,518,560$ |
| $\$ 14,532,110$ | $51.4205 \%$ | $\$ 7,472,484$ |
| $\$ 11,891,943$ | $51.4205 \%$ | $\$ 6,114,897$ |
|  |  | $\$ 0$ |
| $\$ 34,871,656$ |  |  |

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

FERC Form 1 Page 323.197b
FERC Form 1 Page 323.185b
FERC Form 1 Page 323.189b
FERC Form 1 Page 323.191b

| 99.8099\% (a) | \$26,214,163 | 51.4205\% | \$13,479,454 |
| :---: | :---: | :---: | :---: |
| 99.2997\% (c) | (\$134,620) | 51.4205\% | $(\$ 69,222)$ |
| 99.2997\% (c) | \$2,587,359 | 51.4205\% | \$1,330,433 |
|  | \$0 | 51.4205\% | \$0 |
|  | \$0 | 51.4205\% | \$0 |
|  | \$28,666,902 |  | \$14,740,665 |
| 99.8099\% (a) | \$2,267,030 | 51.4205\% | \$1,165,718 |

Line 13
Attachment 5 Line 6

$$
\text { Line } 15
$$

FERC Form 1 Page 350.18c

FERC Form 1 Page 263.3,4i - Footnote (d)

| Property Taxes FF1, Page 263i |  |
| :--- | ---: |
| Massachusetts | $\$ 23,571,202$ |
| New Hampshire | $\$ 2,662,307$ |
| Vermont | $\$ 786,615$ |
| Maine | $\$ 0$ |
| 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.

Shading denotes an input

| Line No. | PTF Transmission Plant Allocation Factor |  |  | Source Reference |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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 |  | \$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

|  |  |  | 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) |  | \$0 |
|  | HQ Phase II - AC in MA | Pg 332 Line 5 Col (g) |  | \$0 |
|  | 345 kV "stabilizer" 342 Line | Pg 332 Line 3 Col (g) |  | \$0 |
|  | 345 kV Carver - Walpole 331 Line | Pg 332 Line 13 Col (g) |  | \$0 |
|  | Second Canal Line | Pg 332 Line 4 Col (g) |  | \$0 |
|  | Bell Rock Road | Page 330.5 Line 12 | \$0 |  |
|  | Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV TewksburyWoburn 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 Co. -Moore 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 |  | \$0 |
|  | HQ Phase II - AC in MA | Page 330 Line 11 | \$0 |  |
|  | MWRA Transmission (MDC) | Contract - Line Lease/Use |  | \$0 |
| VT Elec Co. | Comerford 115 kV Substation | Page 330.1 Line 12 | \$0 |  |
|  |  |  |  |  |
|  |  | Totals | \$0 | \$0 |

## New England Power Company

2011 Informational Filing
PTF Plant Allocation

|  |  |  | Percent <br> 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 $\underline{2011}$

LINE NHH/NEH
LEASE(HVDC)
1 Gross Plant Value Comerford Station to Tewksbury Line ..... \$0
Allocation
Miles used by NHH (a) ..... 0
3 Total miles at Comerford Station ..... 0
4 Percentage of Total Gross Plant leased by NHH (a) ..... 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 ..... \$0to be excluded from PTF Revenue requirement

## 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

Total Current Year Book Depreciation on Equity AFUDC
Less: Specifically identified Transmission-Related Tewksbury Line
Hydro-Quebec
MontaupTransmission Only 1990-1999
1998 Transmission
1999 Transmission
2000 Transmission
2001 Transmission
2002 Transmission

## 2011

\$1,138,245

2003 Transmission
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
Total unidentified Book Depreciation on Equity AFUDC \$387,462
Plant Allocator Factor 99.2997\%
Allocated Transmission Related Book Depreciation on Equity AFUDC \$384,749
Plus: Specifically Identified Transmission-Related Equity AFUDC \$750,783
Total Transmission-Related Equity AFUDC
\$1,135,532
Post-96 PTF Allocation Factor
51.4205\%

Transmission-Related Equity AFUDC
\$583,896

## 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 2011 | $\begin{gathered} \text { MECO } \\ 2011 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 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 |

[^10]New England Power Company
Development of 2011 Regulatory Commission Expense

| Line |  |  |  |
| :---: | :---: | :---: | :---: |
| No. |  | $\underline{2011}$ | 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) |

# Transmission Rents Received from Electric Property New England Power Company 

## 2011

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 

2011
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):
Rates Effective for the Period:
Calendar Year 2011

June 2012
Through:
Customer:
Customer's NABs Number:
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:

|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F - Sections A through I | \$101,550,462 ${ }^{\text {(a) }}$ | \$131,389,736 ${ }^{(f)}$ |
| Total of Attachment F - Section J - Support Revenue | \$5,663,545 ${ }^{(0)}$ | \$0 ${ }^{(9)}$ |
| Total of Attachment F - Section K - Support Expense | \$723,254 ${ }^{(c)}$ | \$0 ${ }^{(n)}$ |
| Total of Attachment F - Section (L through O) | $(\$ 507,986){ }^{\text {(d) }}$ | $(\$ 1,191,607){ }^{(1)}$ |
| Sub Total - Sum (A through I) - J K + (L through O) | \$96,102,185 $(e)=(a)(b)+(c)+(d)$ | \$130,198,129 ${ }^{(0)}$ |
| 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 ${ }^{(1)}$ | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$96,102,185 ${ }^{(n)=(e)+(1)}$ | \$167,246,952 $(0)=(0)+(k)+(m)$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requireme and Post-96 Revenue Requirements Subtotals for rate calculations unde | the Tariff: | \$263,349,137 ${ }^{(p)=(n)+(0)}$ |

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

PRE-1997

Shading denotes an input

| Line No. |
| :---: |
| 1 |
| 2 |
| 3 |
| 4 |
|  |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |

## II. REVENUE REQUIREMENTS

Depreciation Expense

Investment Tax Credit
Property Tax Expense
Payroll Tax Expense

Transmission Support Revenue
Transmission Support Expense
I. INVESTMENT BASE
Transmission Plant
General Plant
Plant Held For Future Use

        Total Plant (Lines 1+2+3)
    
    Accumulated Depreciation
    
    Accumulated Deferred Income Taxes
    
    Loss On Reacquired Debt
    
    Other Regulatory Assets
    
        Net Investment (Line 4+5+6+7+8)
    
        Prepayments
    
        Materials \& Supplies
    
        Cash Working Capital
    
        Total Investment Base (Line 9+10+11+12)
    Investment Return and Income Taxes (A)
Amortization of Loss on Reacquired Debt
(B)
(C)
(D)
(E)

Operation \& Maintenance Expense
(F)

Administrative \& General Expense
Transmission Related Integrated Facilities Charge
(G)
(H)
(I)

Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff
Transmission Rents Received from Electric Property

Total Revenue Requirements (Line 14 thru 28)

| Attachment F |  |
| :---: | :---: |
| Reference | NEP |
| Section: |  |
| (A)(1)(a) | \$336,247,655 |
| (A)(1)(b) | \$1,399,489 |
| (A)(1)(c) | \$225,295 |
|  | \$337,872,439 |
| (A)(1)(d) | (\$77,488,640) |
| (A)(1)(e) | (\$76,355,405) |
| (A)(1)(f) | \$91,898 |
| (A)(1)(g) | \$9,354,618 |
|  | \$193,474,910 |
| (A)(1)(h) | \$30,363 |
| (A)(1)(i) | \$838,599 |
| (A)(1)(j) | \$1,741,012 |

\$196,084,884
Reference

Worksheet 3 , line $1 \& 2$ column 5 Worksheet 3 , line 3 column 5 Worksheet 3 , line 5 column 5

Worksheet 3 , line 8 column 5 Worksheet 3, line 11 column 5 Worksheet 3 , line 12 column 5 Worksheet 3 , line 16 column 5

Worksheet 3, line 17 column 5 Worksheet 3 , line 18 column 5 Worksheet 3 , line 25 column 5

## Worksheet 2

Worksheet 4, line 3, column 5 Worksheet 4 , line 4 , column 5 Worksheet 4, line 5, column 5 Worksheet 4 , line 6, column 5 Worksheet 4 , line 22 , column 5 Worksheet 4, line 11, column 5 Worksheet 4 , line 21 , column 5 Attachment 4, line 6

Worksheet 6
Worksheet 6 Worksheet 7

Attachment 7
Attachment 6

|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2011 \end{gathered}$ | 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\% | 11.64\% | 7.50\% | 7.50\% |
| TOTAL INVESTMENT RETURN | \$1,157,668,223 | 100.00\% |  | 7.93\% | 7.51\% |

## Cost of Capital Rate=



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

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

|  | Shading denotes an input |  |
| :---: | :---: | :---: |
| Line No. |  |  |
|  | PTF Transmission Plant Allocation Factor | NEP |
| 1 | PTF Transmission Investment | \$349,334,382 |
| 2 |  | \$1,593,625,753 |
| 3 | Percent Allocation (Line 1/Line 2) | 21.9207\% |
|  | Transmission Wages and Salaries Allocation Factor |  |
| 4 | Direct Transmission Wages and Salaries | \$0 |
| 5 | Affiliated Company Transmission Wages and Salaries | \$23,467,616 |
| 6 | Total Transmission Wages and Salaries (Line 4 + Line 5) | \$23,467,616 |
| 7 | Total Wages and Salaries | \$0 |
| 8 | Administrative and General Wages and Salaries | \$0 |
| 9 | Affiliated Company Wages and Salaries less A\&G | \$23,512,307 |
| 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 |
| 13 | plus Transmission-Related General Plant | \$6,384,326 |
| 14 | $=$ Revised Numerator (Line $12+$ Line 13) | \$1,600,010,079 |
| 15 | Total Plant in Service | \$1,611,293,575 |
| 16 | Percent Allocation (Line 14 / Line 16) | 99.2997\% |

## Source

 Reference
## PTF Transmission Plant Allocation Factor

PTF Transmission Investment

Percent Allocation (Line 1/Line 2)

## Transmission Wages and Salaries Allocation Factor

## 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.

|  |  |  | TO |  |
| :---: | :---: | :---: | :---: | :---: |
| Participant | PTF Supporting Facilities | FERC Form 1 Reference | Revenues | Expenses |
| NSTAR |  |  | (a) | (b) |
|  | 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 TewksburyWoburn 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 $8 \mathrm{Col}(\mathrm{n})$ | \$423,318 |  |
| NU | Public Service Co. -Moore 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 |

Shading denotes an input

New England Power Company<br>2011 Informational Filing<br>PTF Plant Allocation

|  |  |  | Percent <br> 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 | $\$ 819,449,952$ | $70.11 \%$ |
| 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 $4+5$

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES

$\underline{2011}$
$\left.\begin{array}{clr}\text { LINE } \\ \text { NO }\end{array} \quad \begin{array}{c}\text { (HVDC) } \\ \text { NHH/NEH }\end{array}\right)$

## Source:

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 $5+16 \mathrm{col}$ (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

Total Current Year Book Depreciation on Equity AFUDC
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 $\quad(\$ 8,299)$
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

Total Unidentified Book Depreciation on Equity AFUDC \$387,419
Plant Allocator Factor 99.2997\%
Allocated Transmission Related Book Depreciation on Equity AFUDC \$384,706
Plus: Specifically Identified Transmission-Related Equity AFUDC
\$750,091
Total Transmission-Related Equity AFUDC
\$1,134,797
Pre-97 PTF Allocation Factor
Transmission-Related Equity AFUDC

## 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

Shading denotes an input

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

1 Total Integrated Facilities Charges
2 Total 2011 PTF Property
3 Total Transmission Plant in 2011
4 NECO or MECO PTF Plant Allocator
5 PTF Related Integrated Facilities Charge
6 Total Integrated Facilities

| REVISED PTF |  |
| ---: | ---: |
| Narragansett | MECO |
| $\underline{\mathbf{2 0 1 1}}$ | $\underline{\mathbf{2 0 1 1}}$ |
| $\$ 60,868,519$ | $\$ 8,564,781$ |
| $\$ 234,900,022$ | $\$ 21,875,675$ |
| $\$ 321,180,057$ | $\$ 46,378,064$ |
| $73.14 \%$ | $47.17 \%$ |
| $\$ 44,517,136$ | $\$ 4,039,849$ |
|  | $\mathbf{\$ 4 8 , 5 5 6 , 9 8 5}$ |

## 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 <br> No. | $\underline{2011}$ |  |  |
| ---: | :--- | ---: | ---: |
| 1 | Sotal 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) |


| Transmission Rents Received from Electric |
| :--- |
| New England Power Company |

Revenues
Plant Allocation Factor
Transmission Allocated
PTF Allocation
Total PTF Revenue

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

# New England Power Company 

## 2011

Revenues

Pre-97 PTF Percent
Total Pre-97 PTF Revenue
\$809,392
29.8887\%
\$ 241,917

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

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):
Rates Effective for the Period:
Through:
Customer:
Customer's NABs Number:
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:


## New England Power Company

## Annual Revenue Requirements of PTF Facilities For Costs in 2011

## POST-1996

|  |
| :---: |
| Line No. |
| 1 |
| 2 |
| 3 |
| 4 |
|  |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |

Shading denotes an input

| I. INVESTMENT BASE | Reference | NEP |
| :---: | :---: | :---: |
|  | Section: |  |
| Transmission Plant | (A)(1)(a) | \$819,449,952 |
| General Plant | (A)(1)(b) | \$3,282,852 |
| Plant Held For Future Use | (A)(1)(c) | \$528,485 |
| Total Plant (Lines 1+2+3) |  | \$823,261,289 |
| Accumulated Depreciation | (A)(1)(d) | (\$181,769,040) |
| Accumulated Deferred Income Taxes | $(\mathrm{A})(1)(\mathrm{e})$ | (\$179,110,753) |
| Loss On Reacquired Debt | (A)(1)(f) | \$215,570 |
| Other Regulatory Assets | $(\mathrm{A})(1)(\mathrm{g})$ | \$21,943,602 |
| Net Investment (Line 4+5+6+7+8) |  | \$484,540,668 |
| Prepayments | $(\mathrm{A})(1)(\mathrm{h})$ | \$71,225 |
| Materials \& Supplies | (A)(1)(i) | \$1,967,145 |
| Cash Working Capital | (A)(1)(j) | \$4,083,981 |
| NEEWS CWIP | (A)(1)(k) | \$10,910,787 |
| Total Investment Base (Line 9+10+11+12+13) |  | \$501,573,805 |

## II. REVENUE REQUIREMENTS

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
Transmission Related Integrated Facilities Charge
Transmission Support Revenue
Transmission Support Expense
Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff
Transmission Rents Received from Electric Property
Total Revenue Requirements (Line 14 thru 28)

| (A) | $\$ 62,722,239$ |
| :--- | ---: |
| (B) | $\$ 17,882,627$ |
| (C) | $\$ 143,011$ |
| (D) | $(\$ 203,026)$ |
| (E) | $\$ 13,971,698$ |
| (F) | $\$ 1,165,718$ |
| (G) | $\$ 17,931,179$ |
| (H) | $\$ 14,740,665$ |
| (I) | $\$ 0$ |
| (J) | $\$ 0$ |
| (K) | $\$ 0$ |
| (L) | $\$ 0$ |
| (M) | $\$ 0$ |
| (N) | $(\$ 567,475)$ |
| (O) | $(\$ 624,132)$ |

Worksheet 3
Worksheet 6, line 3, column 5 Worksheet 6, line 4, column 5 Worksheet 6, line 5, column 5 Worksheet 6, line 6, column 5 Worksheet 6 , line 22, column 5 Worksheet 6, line 11, column 5 Worksheet 6 , line 21, column 5 Attachment 4, line 6

Worksheet 8
Worksheet 8

Attachment 7
Attachment 6

## New England Power Company

## Post 1996 Regional Network Service Revenue Requirement

For Test Year Ended 12/31/2011

Shading denotes an input

| Line No. | Description | Attachment F Reference | Forecasted Amount \$ | Reference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA) |  | \$ 36,307,741 | Line 6 |
| 2 | Forecasted Revenue Requirements for Forecasted Transmission CWIP |  | \$114,702 | Line 9 |
| 3 | Forecasted Transmission Revenue Requirements |  | \$ 36,193,039 | 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 | 15.28277\% | Line 20 |
| 6 | Forecasted Revenue Requirements for FTPA |  | \$ 36,307,741 | 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 | 13.47235\% | Workpaper 4 |
| 9 | Forecasted Revenue Requirements for FNCWIP |  | \$ (114,702) | 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 | $(\mathrm{A})(1)(\mathrm{a})$ | \$819,449,952 | Summary, Line 1 |
| 20 | Carrying Charge Factor (FTPA) |  | 15.28277\% | Line 18 / Line 19 |

Shading denotes an input

|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2011 \\ \hline \end{gathered}$ | 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 | 64.45\% | 11.07\% | 7.13\% | 7.13\% |
| TOTAL INVESTMENT RETURN | \$1,157,668,223 | 100.00\% |  | 7.56\% | 7.14\% |

Cost of Capital Rate=

| (b) Federal Income Tax | = | 1 |  | R.O.E. + | 1 | PTF Inv. <br> (Tax Credit | + | Eq. AFUDC of Deprec. Exp. | )1 | PTF Inv. Base) |  | $x$ | Federal Income Tax Rate | ) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ( | 1 |  |  |  |  |  |  |  | - | Federal Income Tax Rate | ) |  |
|  | = | $($ |  | 0.0714 | +( | (\$203,026) | + |  | \$583,896 ) / | \$501,573,805 | ) | x | 0.35 | ) |  |
|  |  |  | ( | 1 |  |  |  |  |  |  |  | - | 0.35 | ) |  |
|  | = |  |  | 0.038 |  |  |  |  |  |  |  |  |  |  |  |
| (c) State Income Tax | = | 1 |  | R.O.E. + | $($ | PTF Inv. (Tax Credit | + | Eq. AFUDC of Deprec. Exp. | )/ | PTF Inv. Base) |  | + | Federal Income Tax | $)^{*}$ | State Income Tax Rate |
|  |  |  | ( | 1 |  |  |  |  |  |  |  | - | State Income Tax Rate | ) |  |
|  | = | 1 |  | 0.0714 | +( | $(\$ 203,026)$ | + |  | \$583,896 ) / | \$501,573,805 | ) | + | 0.0388550 | $)^{*}$ | 0.059466 |
|  |  |  |  | 1 |  |  |  |  |  |  |  | - | 0.059466 | ) |  |
|  | = |  |  | 0.007 |  |  |  |  |  |  |  |  |  |  |  |
| (a)+(b)+(c) Cost of Capital Rate |  |  |  | 0.121 |  |  |  |  |  |  |  |  |  |  |  |


|  | (PTF) |  |
| :---: | :---: | :---: |
| INVESTMENT BASE | \$501,573,805 | From Worksheet 1 |
| x Cost of Capital Rate | 0.1214740 |  |
| $=$ Investment Return and Income Taxes | $\underline{\$ 60,928,176}$ | 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 |


| 3 PTF Investment Base w/ Incremental 100 bps: |  |  |  |
| :---: | :---: | :---: | :---: |
| Plant In-Service | \$ | 213,375,099 | From Attachment 1 |
| Accumulated Depreciation |  | $(46,695,224)$ | From Worksheets 5 \& 7 |
| Accumulate Deferred Income Taxes |  | $(46,311,697)$ | From Worksheets 5 \& 7 |
| Total Post-2003 Investment | \$ | 120,368,177 | Calculated |
| Incremental ROE: 1.00\% |  | 0.00645 | Calculated |
| Federal Income Taxes: |  | 0.00347 | Per Attachment F |
| State Income Taxes: |  | 0.00063 | Per Attachment F |
| Cost of Capital Rate |  | 0.01054 |  |
| Incremental Return and Taxes on Post-2003 PTF Investment | \$ | 1,268,957 |  |


| NEEWS In-Service w/ Incremental 125 bps: |  |  |  |
| :---: | :---: | :---: | :---: |
| New England Power NEEWS In-Service | \$ | 52,962,648 | PowerPlant PTF 4 \& 5 reports - PTF only |
| Accumulated Depreciation |  | $(12,062,457)$ | From Worksheets 3 \& 5 |
| Accumulate Deferred Income Taxes |  | $(11,963,383)$ | From Worksheets 3 \& 5 |
| Total New England Power NEEWS Investment | \$ | 28,936,808 | Calculated |
| Incremental ROE: 1.25\% |  | 0.00806 | Calculated |
| Federal Income Taxes: |  | 0.00434 | Per Attachment F |
| State Income Taxes: |  | 0.00078 | Per Attachment F |
| Cost of Capital Rate |  | 0.01318 |  |
| Incremental Return and Taxes on NEEWS PTF Investment | \$ | 381,325 |  |


| NEEWS Allocation Factor |  |  |
| :---: | :---: | :---: |
| Total Transmission Investment | \$1,593,625,753 | Worksheet 7 Line 2 <br> Plant Accounting Records |
| Total NEEWS In-Service - NEP | \$55,119,725 |  |
| For Accumulated Depreciation | 3.4588\% |  |
| NEEWS Allocation Factor | 3.4588\% |  |
| Plant Allocation Factor | 0.992997 | Worksheet 7 Line 16 |
| For Accumulated Deferred Income Taxes | 3.4345\% |  |

# New England Power Company <br> Annual Revenue Requirements <br> For Costs in 2011 

Shading denotes an input

|  | $\begin{gathered} \text { CAPITALIZATION } \\ \text { 12/31/2011 } \end{gathered}$ | 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\% | 12.32\% | 7.94\% | 7.94\% |
| TOTAL INVESTMENT RETURN | \$1,157,668,223 | 100.00\% |  | 8.37\% | 7.95\% |

Cost of Capital Rate=
(a) Weighted Cost of Capital
(b) Federal Income Tax
(c) State Income Tax

$=\quad 0.0078069$

## New England Power Company



(a) Worksheet 7, Line 11
(b) Worksheet 7 Line 3
(d) Transmission Only - Payroll Taxes - Specifically identified in FERC From 1
(e) Transmission Only - Property 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.

Shading denotes an input

| Line <br> No. |  |  | Source |
| :---: | :--- | ---: | :--- |
| Reference |  |  |  |

## 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

|  |  |  | 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) |  | \$0 |
|  | HQ Phase II - AC in MA | Pg 332 Line 5 Col (g) |  | \$0 |
|  | 345 kV "stabilizer" 342 Line | Pg 332 Line 3 Col (g) |  | \$0 |
|  | 345 kV Carver - Walpole 331 Line | Pg 332 Line 13 Col (g) |  | \$0 |
|  | Second Canal Line | Pg 332 Line 4 Col (g) |  | \$0 |
|  | Bell Rock Road | Page 330.5 Line 12 | \$0 |  |
|  | Boston-Edison [345 kV Sandy-Tewksbury 337 line-345kV TewksburyWoburn 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 Co. -Moore 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 |  | \$0 |
|  | HQ Phase II - AC in MA | Page 330 Line 11 | \$0 |  |
|  | MWRA Transmission (MDC) | Contract - Line Lease/Use |  | \$0 |
| VT Elec Co. | Comerford 115 kV Substation | Page 330.1 Line 12 | \$0 |  |
|  |  |  |  |  |
|  |  | Totals | \$0 | \$0 |

New England Power Company<br>2011 Informational Filing<br>PTF Plant Allocation

| 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

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES

 $\underline{2011}$| LINE <br> NO |  | (HVDC) <br> NHH/NEH <br> LEASE |
| :---: | :--- | :---: |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line |  |$\quad$| (a) |
| :---: |

## 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

Total Current Year Book Depreciation on Equity AFUDC
Less: Specifically identified Transmission-Related Tewksbury Line
Hydro-Quebec
MontaupTransmission Only 1990-1999
1998 Transmission
1999 Transmission
2000 Transmission
2001 Transmission
2002 Transmission

## 2011

\$1,138,245

2003 Transmission
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
Total unidentified Book Depreciation on Equity AFUDC \$387,462
Plant Allocator Factor 99.2997\%
Allocated Transmission Related Book Depreciation on Equity AFUDC \$384,749
Plus: Specifically Identified Transmission-Related Equity AFUDC \$750,783
Total Transmission-Related Equity AFUDC
\$1,135,532
Post-96 PTF Allocation Factor
51.4205\%

Transmission-Related Equity AFUDC
\$583,896

## 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<br>Determination of the PTF Related Integrated Facilities Charges

|  | Narragansett <br> 2011 | MECO <br> 2011 |  |
| :--- | :--- | ---: | ---: |
| 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
No.
1 Total Regulatory Commission Expense - NEP
2 Less: New Hampshire PUC Assessment
3 Less: Mass Emergency Fund
4 Less Mass DPU Special Assessment
5 Less: Utility Expenses
6 Total Federal Assessments

2011
\$4,168,438
\$78,276
\$0
\$229,133
\$1,255,423
\$2,605,606

Source
FERC Form1 Page 350.46d
FERC Form1 Page 350.2d
FERC Form1 Page 350.7d
FERC Form1 Page 350.8d
FERC Form1 Page 350.46c
Line 1 - (Line 2-5)

# Transmission Rents Received from Electric Property New England Power Company 

| Revenues | $\underline{\mathbf{2 0 1 1}}$ <br> Plant Allocation Factor |
| :--- | ---: |
| Transmission Allocated | $\mathbf{1 0 0 . 0 0 \%}$ |
| PTF Allocation | $51.213,781$ |
| 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 

## 2011

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):
Rates Effective for the Period:
Calendar Year 2011

June 2012
Through:
Customer:
Customer's NABs Number:
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:

|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F - Sections A through I | \$100,395,777 ${ }^{\text {(a) }}$ | \$128,354,111 ${ }^{(f)}$ |
| Total of Attachment F - Section J - Support Revenue | \$5,663,545 ${ }^{(0)}$ | \$0 ${ }^{(9)}$ |
| Total of Attachment F - Section K - Support Expense | \$723,254 ${ }^{(c)}$ | \$0 ${ }^{(n)}$ |
| Total of Attachment F - Section (L through O) | $(\$ 507,986){ }^{\text {(d) }}$ | $(\$ 1,191,607){ }^{(i)}$ |
| Sub Total - Sum (A through I) - J K + (L through O) | \$94,947,500 ${ }^{(e)=(a)(b)+(c)+(d)}$ | \$127,162,504 () |
| 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 ${ }^{(1)}$ | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$94,947,500 ${ }^{(n)=(e)+(1)}$ | \$163,355,543 $(0)=(0)+(k)+(m)$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requireme and Post-96 Revenue Requirements Subtotals for rate calculations unde | nts the Tariff: | \$258,303,043 ${ }^{(p)=(n)+(0)}$ |

New England Power Company

## Annual Revenue Requirements of PTF Facilities

 For Costs in 2011PRE-1997

Shading denotes an input

| Line No. |
| :---: |
| 1 |
| 2 |
| 3 |
| 4 |
|  |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |

## II. REVENUE REQUIREMENTS

Depreciation Expense

Investment Tax Credit
Property Tax Expense
Payroll Tax Expense

Transmission Support Revenue
Transmission Support Expense
I. INVESTMENT BASE

Transmission Plant

General Plant

Plant Held For Future Use

Total Plant (Lines 1+2+3)

Accumulated Depreciation

Accumulated Deferred Income Taxes

Loss On Reacquired Debt

Other Regulatory Assets

Net Investment (Line 4+5+6+7+8)

Prepayments

Materials \& Supplies

Cash Working Capital

Total Investment Base (Line 9+10+11+12)

Investment Return and Income Taxes
Amortization of Loss on Reacquired Debt
(B)
(C)
(D)
(E)

Operation \& Maintenance Expense
(F)

Administrative \& General Expense
Transmission Related Integrated Facilities Charge
(H)
(I)
(J)

Transmission Related Expense from Generators
Transmission Related Taxes and Fees Charge
Revenue for ST Trans. Service Under NEPOOL Tariff
Transmission Rents Received from Electric Property
Total Revenue Requirements (Line 14 thru 28)

| Attachment F Reference | NEP |
| :---: | :---: |
| Section: |  |
| (A)(1)(a) | \$336,247,655 |
| (A)(1)(b) | \$1,399,489 |
| (A)(1)(c) | \$225,295 |
|  | \$337,872,439 |
| (A)(1)(d) | $(\$ 77,488,640)$ |
| $(\mathrm{A})(1)(\mathrm{e})$ | $(\$ 76,355,405)$ |
| (A)(1)(f) | \$91,898 |
| $(\mathrm{A})(1)(\mathrm{g})$ | \$9,354,618 |
|  | \$193,474,910 |
| $(\mathrm{A})(1)(\mathrm{h})$ | \$30,363 |
| (A)(1)(i) | \$838,599 |
| (A)(1)(j) | \$1,741,012 |

\$196,084,884
Reference

Worksheet 3 , line $1 \& 2$ column 5 Worksheet 3 , line 3 column 5 Worksheet 3 , line 5 column 5

Worksheet 3 , line 8 column 5 Worksheet 3 , line 11 column 5 Worksheet 3 , line 12 column 5 Worksheet 3 , line 16 column 5

Worksheet 3 , line 17 column 5 Worksheet 3 , line 18 column 5 Worksheet 3 , line 25 column 5

## Worksheet 2

Worksheet 4, line 3, column 5 Worksheet 4, line 4, column 5 Worksheet 4, line 5, column 5 Worksheet 4, line 6, column 5 Worksheet 4, line 22, column 5 Worksheet 4, line 11, column 5 Worksheet 4 , line 21, column 5 Attachment 4, line 6

Worksheet 6
Worksheet 6
Worksheet 7

Attachment 7
Attachment 6

## New England Power Company <br> Annual Revenue Requiren

 For Costs in 2011Shading denotes an input

|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2011 \\ \hline \end{gathered}$ | 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\% | 11.07\% | 7.14\% | 7.14\% |
| TOTAL INVESTMENT RETURN | \$1,157,668,223 | 100.00\% |  | 7.57\% | 7.15\% |

## Cost of Capital Rate=

(a) Weighted C
(b) Federal Income Ta
(c) State Income Tax

$=$

$=00.0389454$
0.0070353
(a)+(b)+(c) Cost of Capital Rate
0.1216807
INVESTMENT BASE
x Cost of Capital Rate
= Investment Return and Income Taxes

| (PTF) |  |
| ---: | :--- |
| $\$ 196,084,884$ | From Worksheet 1 |
| 0.1216807 |  |
| $\$ 23,859,746$ | To Worksheet 1 |


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


| Shading denotes an input |  |  |  |
| :---: | :---: | :---: | :---: |
| Line No. |  |  | Source Reference |
|  | PTF Transmission Plant Allocation Factor | NEP |  |
| $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | PTF Transmission Investment | $\begin{gathered} \$ 349,334,382 \\ \$ 1,593,625,753 \end{gathered}$ | Attachment 1, Page 1 <br> 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.

|  |  |  | TO |  |
| :---: | :---: | :---: | :---: | :---: |
| Participant | PTF Supporting Facilities | FERC Form 1 Reference | Revenues | Expenses |
| NSTAR |  |  | (a) | (b) |
|  | 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 TewksburyWoburn 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 $8 \mathrm{Col}(\mathrm{n})$ | \$423,318 |  |
| NU | Public Service Co. -Moore 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 |

Shading denotes an input

New England Power Company<br>2011 Informational Filing<br>PTF Plant Allocation

|  |  |  | Percent <br> 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 | $\$ 819,449,952$ | $70.11 \%$ |
| 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 $4+5$

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES

$\underline{2011}$
$\left.\begin{array}{clr}\text { LINE } \\ \text { NO }\end{array} \quad \begin{array}{c}\text { (HVDC) } \\ \text { NHH/NEH }\end{array}\right)$

## Source:

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 $5+16 \mathrm{col}$ (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

Total Current Year Book Depreciation on Equity AFUDC
Less: Specifically Identified Transmission-Related
Tewksbury Line
\$54,708
Hydro-Quebec
\$23,543
MontaupTransmission Only 1990-1999
1998 Transmission
\$9,713
1999 Transmission \$42,457
2000 Transmission
2001 Transmission
2002 Transmission
2003 Transmission
2004 Transmission
2005 Transmission
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
Total Unidentified Book Depreciation on Equity AFUDC \$387,419
Plant Allocator Factor 99.2997\%
Allocated Transmission Related Book Depreciation on Equity AFUDC \$384,706
Plus: Specifically Identified Transmission-Related Equity AFUDC
\$750,091
Total Transmission-Related Equity AFUDC
\$1,134,797
Pre-97 PTF Allocation Factor
Transmission-Related Equity AFUDC

## 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

Shading denotes an input

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

|  |  | Narragansett 2011 | $\begin{gathered} \text { MECO } \\ \underline{2011} \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 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 |

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 <br> No. | $\underline{2011}$ |  |  |
| ---: | :--- | ---: | ---: |
| 1 | Sotal 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) |


| Transmission Rents Received from Electric |
| :--- |
| New England Power Company |

Revenues
Plant Allocation Factor
Transmission Allocated
PTF Allocation
Total PTF Revenue

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

# New England Power Company 

## 2011

Revenues

Pre-97 PTF Percent
Total Pre-97 PTF Revenue
\$809,392
29.8887\%
\$ 241,917

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

Shading denotes an input

Submitted on:
Revenue Requirements for (year):
Rates Effective for the Period:
Through:
Customer:
Customer's NABs Number:
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:

|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F-Sections A through I | \$119,273,424 ${ }^{\text {(a) }}$ | \$144,708,124 ${ }^{(1)}$ |
| Total of Attachment F - Section J - Support Revenue | \$5,407,628 ${ }^{(b)}$ | \$0 ${ }^{(9)}$ |
| Total of Attachment F - Section K - Support Expense | \$703,144 ${ }^{\text {(c) }}$ | \$0 (h) |
| Total of Attachment F - Section (L through O) | $(\$ 526,111){ }^{\text {(d) }}$ | $(\$ 1,368,365){ }^{\text {(i) }}$ |
| Sub Total - Sum (A through I) - J + $\mathrm{K}+(\mathrm{L}$ through O ) | \$114,042,830 ${ }^{(e)=(a)-(b)+(c)+(d)}$ | \$143,339,759 ${ }^{(0)}$ |
| 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 ${ }^{(1)}$ | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$114,042,830 ${ }^{(n)=(e)+(1)}$ | \$196,570,234 ${ }^{(0)=()+t(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requirements \& |  |  |
| Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest) | ements | \$310,613,063 ${ }^{(p)=(n)+(0)}$ |

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



New England Power Company

## Post 1996 Regional Network Service Revenue Requirement <br> For Test Year Ended 12/31/2012

Shading denotes an input

| Line No. | Description | Attachment F Reference | Forecasted Amount \$ |  | Reference |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA) |  | \$ | 53,403,146 | Line 6 |
| 2 | Forecasted Revenue Requirements for Forecasted Transmission CWIP |  |  | \$172,671 | Line 9 |
| 3 | Forecasted Transmission Revenue Requirements |  | \$ | 53,230,475 | Line 1 + Line 2 |
| 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 |  | 15.36376\% | Line 20 |
| 6 | Forecasted Revenue Requirements for FTPA |  | \$ | 53,403,146 | 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 |  | 13.83223\% | Workpaper 4 |
| 9 | Forecasted Revenue Requirements for FNCWIP |  | \$ | $(172,671)$ | Line 7 * Line 8 |
| Derivation of Carrying Charge (CCF) |  |  |  |  |  |
| 10 | Investment Return and Income Taxes | (A) |  | \$67,785,682 | 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) |  |  | \$141,041,753 |  |
| 19 | PTF Transmission Plant | (A)(1)(a) |  | \$918,015,798 | Summary, Line 1 |
| 20 | Carrying Charge Factor (FTPA) |  |  | 15.36376\% | Line 18 / Line 19 |


|  | $\qquad$ |  | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$ | 410,350,000 | 35.77\% | 0.65\% | 0.23\% |  |
| PREFERRED STOCK | \$ | 1,111,700 | 0.10\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$ | 735,600,299 | 64.13\% | 11.64\% | 7.46\% | 7.46\% |
| TOTAL INVESTMENT RETURN |  | \$1,147,061,999 | 100.00\% |  | 7.70\% | 7.47\% |

## Cost of Capital Rate=


(a) $+(\mathrm{b})+(\mathrm{c})$ 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 Taxes | \$69,605,586 | To Worksheet 1 |
| INVESTMENT BASE (Excluding NEEWS CWIP) | \$541,969,813 | From Worksheet 1 |
| x Cost of Capital Rate | 0.1250728 |  |
| = Investment Return and Income Taxes | \$67,785,682 | To Worksheet 2 |


| t 2003 PTF Investment Base w/ Incremental 100 bps: |  |  |  |
| :---: | :---: | :---: | :---: |
| Plant In-Service | \$ | 213,518,137 | From Attachment 1 |
| Accumulated Depreciation |  | $(46,296,429)$ | From Worksheets 5 \& 7 |
| Accumulate Deferred Income Taxes |  | $(48,612,947)$ | From Worksheets 5 \& 7 |
| Total Post-2003 Investment | \$ | 118,608,761 | Calculated |
| Incremental ROE: 1.00\% |  | 0.00641 | Calculated |
| Federal Income Taxes: |  | 0.00345 | Per Attachment F |
| State Income Taxes: |  | 0.00062 | Per Attachment F |
| Cost of Capital Rate |  | 0.01049 |  |
| Incremental Return and Taxes on Post-2003 PTF Investment | \$ | 1,244,200 |  |
| NEEWS In-Service w/ Incremental 125 bps: |  |  |  |
| New England Power NEEWS In-Service | \$ | 56,490,343 | PowerPlant PTF 4 \& 5 reports - PTF only |
| Accumulated Depreciation |  | (12,248,613) | From Worksheets 3 \& 5 |
| Accumulate Deferred Income Taxes |  | $(12,861,493)$ | From Worksheets 3 \& 5 |
| Total New England Power NEEWS Investment | \$ | 31,380,236 | Calculated |
| Incremental ROE: 1.25\% |  | 0.00802 | Calculated |
| Federal Income Taxes: |  | 0.00432 | Per Attachment F |
| State Income Taxes: |  | 0.00078 | Per Attachment F |
| Cost of Capital Rate |  | 0.01311 |  |
| Incremental Return and Taxes on NEEWS PTF Investment | \$ | 411,471 |  |


| NEEWS Allocation Factor |  |  |  |
| :---: | :---: | :---: | :---: |
| Total Transmission Investment |  | \$1,712,325,359 | Worksheet 7 Line 2 <br> Plant Accounting Records |
| Total NEEWS In-Service - NEP | \$ | 56,490,343 |  |
| For Accumulated Depreciation |  | 3.2990\% |  |
| NEEWS Allocation Factor |  | 3.2990\% |  |
| Plant Allocation Factor |  | 0.992978 | Worksheet 7 Line 16 |
| For Accumulated Deferred Income Taxes |  | 3.2759\% |  |


|  | $\begin{gathered} \text { CAPITALIZATION } \\ 12 / 31 / 2012 \\ \hline \end{gathered}$ |  | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$ | 410,350,000 | 35.77\% | 0.65\% | 0.23\% |  |
| PREFERRED STOCK | \$ | 1,111,700 | 0.10\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$ | 735,600,299 | 64.13\% | 12.89\% | 8.27\% | 8.27\% |
| TOTAL INVESTMENT RETURN |  | \$1,147,061,999 | 100.00\% |  | 8.51\% | 8.28\% |

Cost of Capital Rate=
(a) Weighted Cost of Capital
(b) Federal Income Tax
(c) State Income Tax

$=\quad 0.0081433$

## New England Power Company

| Shading denotes an input |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (1) Total |  | (2) <br> Wage/Plant Allocation Factors | $(3)=(1)^{*}(2)$ <br> Transmission <br> Allocated |  | $\begin{gathered} (5)=(3)^{*}(4) \\ \text { PTF } \\ \text { Allocated } \\ \hline \end{gathered}$ | Source Reference for Col (1) |
| Transmission Plant |  |  |  |  |  | \$918,015,798 | Attachment 1, Page 1 |
| Less: Plant Assoc. HVDC Leases |  |  |  |  |  | \$0 | Attachment 2 |
| General Plant | \$ | 6,396,194 | 99.7856\% (a) | \$6,382,481 | 53.6122\% (b) | \$3,421,788 | FERC Form 1 page 207.99g |
| Total (line 1+2+3) |  |  |  | \$6,382,481 |  | \$921,437,586 |  |
| Transmission Plant Held for Future Use | \$ | 1,027,771 |  | \$1,027,771 | 53.6122\% (b) | \$551,011 | FERC Form 1 page 214.2d, $4 \mathrm{~d}, 9 \mathrm{~d}$ |
| Transmission Accumulated Depreciation |  |  |  |  |  |  |  |
| Transmission Accumulated Depreciation | \$ | $(371,277,823)$ |  | (\$371,277,823) | 53.6122\% (b) | (\$199,050,209) | FERC Form 1 page 219.25b |
| General Plant Accumulated Depreciation | \$ | $(5,112,522)$ | 99.7856\% (a) | (\$5,101,561) | 53.6122\% (b) | (\$2,735,059) | FERC Form 1 Page 219.28b |
| Total (line 6+7) |  |  |  | (\$376,379,384) |  | (\$201,785,268) |  |
| Transmission Accumulated Deferred Taxes |  |  |  |  |  |  |  |
| Accumulated Deferred Taxes (281-283) | \$ | $(508,206,767)$ | 99.2978\% (c) | (\$504,638,139) | 53.6122\% (b) | (\$270,547,608) | FERC Form 1 page 113.62-64 |
| 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 |
| Total (line 9+10) |  |  |  | (\$392,612,246) |  | (\$210,488,062) |  |
| 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 |  |  |  |  |  |  |  |
| FAS 106 | \$ | - | 99.7856\% (a) | \$0 | 53.6122\% (b) | \$0 | FERC Form 1 Page 232.8f |
| 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 |
| FAS 109 (Liability Account 254 ) Total (line $13+14+15$ ) | \$ | \$46,354,440 | 100.0000\% | $\begin{array}{r} \$ 0 \\ \hline \$ 46,354,440 \\ \hline \end{array}$ | 53.6122\% (b) | $\begin{array}{r} \$ 0 \\ \$ 24,851,635 \end{array}$ | FERC Form 1 Page 278 |
| Transmission Prepayments | \$ | - | 99.7856\% (a) | \$0 | 53.6122\% (b) | \$0 | FERC Form 1 Page 111.57c |
| Transmission Materials and Supplies | \$ | 4,889,313 |  | \$4,889,313 | 53.6122\% (b) | \$2,621,268 | FERC Form 1 Page 227.8c |
| Cash Working Capital |  |  |  |  |  |  |  |
| Operation \& Maintenance Expense |  |  |  |  |  | \$18,125,978 | Worksheet 1, Line 20 |
| Administrative \& General Expense |  |  |  |  |  | \$18,913,825 | Worksheet 1, Line 21 |
| Transmission Support Expense |  |  |  |  |  | \$0 | Worksheet 8 |
| Subtotal (line $20+21+22$ ) |  |  |  |  |  | \$37,039,803 |  |
| Total (line 23 * line 24) |  |  |  |  |  | \$4,629,975 |  |
| 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


Shading denotes an input


## 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.

|  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: |
| Participant | PTF Supporting Facilities | FERC Form 1 Reference | Revenues | Expenses |
| NSTAR |  |  | (a) | (b) |
|  | 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 $8 \mathrm{Col}(\mathrm{n})$ | \$0 |  |
| NU | Public Service Co. -Moore 115 kV Substation | Page 330.1 Line $5 \mathrm{Col}(\mathrm{n})$ | \$0 |  |
| NEP | Chester SVC | Transmission Billing |  | \$0 |
|  | 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 |

## New England Power Company

2012 Informational Filing
PTF Plant Allocation

|  |  |  |  | Percent <br> Pre/Post |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |
| 2 | 2011 | Pre-1997 PTF Transmission Plant | $\$ 349,334,382$ |  |
| 3 | 2011 | Post-1996 PTF Transmission Plant | $\$ 819,449,952$ |  |
| 4 | 2012 | Pre-1997 PTF Transmission Plant | $\$ 102,191,455$ |  |
| 5 | 2012 | Post-1996 PTF Transmission Plant | $\$ 352,959,991$ | $27.77 \%$ |
| 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

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES

## $\underline{2012}$

| LINE <br> NO |  | (HVDC) <br> NHH/NEH <br> LEASE |
| :---: | :--- | :---: |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line |  |$\quad$| (a) |
| :---: |

## 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.

Total Current Year Book Depreciation on Equity AFUDC
Less: Specifically identified Transmission-Related Tewksbury Line
Hydro-Quebec
MontaupTransmission $\quad \$ 9,777$

1998 Transmission
1999 Transmission
2000 Transmission
2001 Transmission
2002 Transmission
2003 Transmission
2004 Transmission
2005 Transmission
2006 Transmission
2007 Transmission
2008 Transmission
2009 Transmission
2010 Transmission
2011 Transmission
2012 Transmission

Total unidentified Book Depreciation on Equity AFUDC
Plant Allocator Factor
Allocated Transmission Related Book Depreciation on Equity AFUDC
Plus: Specifically Identified Transmission-Related Equity AFUDC Total Transmission-Related Equity AFUDC

Post-96 PTF Allocation Factor
Transmission-Related Equity AFUDC

## 2012

\$1,346,360
\$54,708
\$23,543

- 13,77
\$42,457
$(\$ 8,299)$
\$23,561
\$8,889
\$16,500
\$15,518
\$49,757
\$64,352
\$42,418
\$57,508
\$98,437
\$79,948
\$155,706
\$210,246
\$958,985
\$387,375
99.2978\%
\$384,655
\$958,985
\$1,343,640
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 <br> Determination of the PTF Related Integrated Facilities Charges

|  | Narragansett <br> $\mathbf{2 0 1 2}$ | MECO <br> $\mathbf{2 0 1 2}$ |  |
| :--- | :--- | ---: | ---: |
| 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 $13 \& 14 \mathrm{Col}(\mathrm{n})$
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 |  |  |  |
| :---: | :---: | :---: | :---: |
| No. |  | $\underline{2012}$ | 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

## $\underline{2012}$

Revenues
Plant Allocation Factor
Transmission Allocated
PTF Allocation
Total PTF Revenue
\$1,129,406
100.00\%
\$1,129,406
53.6122\%
\$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

## 2012

Revenues

Post-96 PTF Percent

Total Post-96 PTF Revenue
\$1,056,174
72.2292\%
\$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

## Shading denotes an input

Submitted on:
Revenue Requirements for (year):
Rates Effective for the Period:
Calendar Year 2012

Through:
June 2013

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 Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F-Sections A through I | \$119,273,424 ${ }^{\text {a) }}$ | \$144,708,124 |
| Total of Attachment F - Section J - Support Revenue | \$5,407,628 ${ }^{\text {(b) }}$ | \$0 ${ }^{(9)}$ |
| Total of Attachment F - Section K - Support Expense | \$703,144 ${ }^{\text {(c) }}$ | \$0 ${ }^{(n)}$ |
| Total of Attachment F - Section (L through O) | $(\$ 526,111){ }^{\text {(d) }}$ | $(\$ 1,368,365){ }_{\text {(i) }}$ |
| Sub Total - Sum (A through I) - J + K + (L through O) | \$114,042,830 ${ }^{(e)=(a) \cdot(b)+(c)+(d)}$ | \$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 Im[plementation Rule | N/A ${ }^{\text {(1) }}$ | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$114,042,830 (n)=(e)+()) | \$196,570,234 $(0)=(0)+(k)+(m)$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requireme and Post-96 Revenue Requirements Subtotals for rate calculations unde | ents <br> r the Tariff: | \$310,613,063 ${ }^{(p)=(n)+(0)}$ |

New England Power Company

## Annual Revenue Requirements of PTF Facilities For Costs in 2012

PRE-1997
Shading denotes an input

| I. INVESTMENT BASE | Attachment F Reference | NEP | Reference |
| :---: | :---: | :---: | :---: |
|  | Section: |  |  |
| Transmission Plant | (A)(1)(a) | \$339,265,312 | Worksheet 3 , line 1\&2 column 5 |
| General Plant | (A)(1)(b) | \$1,315,614 | Worksheet 3, line 3 column 5 |
| Plant Held For Future Use | (A)(1)(c) | \$211,853 | Worksheet 3, line 5 column 5 |
| Total Plant (Lines 1+2+3) |  | \$340,792,779 |  |
| Accumulated Depreciation | (A)(1)(d) | (\$77,582,706) | Worksheet 3, line 8 column 5 |
| Accumulated Deferred Income Taxes | (A)(1)(e) | (\$80,928,770) | Worksheet 3, line 11 column 5 |
| Loss On Reacquired Debt | (A)(1)(f) | \$58,313 | Worksheet 3, line 12 column 5 |
| Other Regulatory Assets | (A)(1)(g) | \$9,554,994 | Worksheet 3 , line 16 column 5 |
| Net Investment (Line 4+5+6+7+8) |  | \$191,894,610 |  |
| Prepayments | (A)(1)(h) | \$0 | Worksheet 3 , line 17 column 5 |
| Materials \& Supplies | (A)(1)(i) | \$1,007,829 | Worksheet 3 , line 18 column 5 |
| Cash Working Capital | (A)(1)(j) | \$1,780,140 | Worksheet 3 , line 25 column 5 |
| Total Investment Base (Line 9+10+11+12) |  | \$194,682,579 |  |
| II. REVENUE REQUIREMENTS |  |  |  |
| Investment Return and Income Taxes | (A) | \$24,360,748 | Worksheet 2 |
| Depreciation Expense | (B) | \$7,736,714 | Worksheet 4, line 3, column 5 |
| Amortization of Loss on Reacquired Debt | (C) | \$28,102 | Worksheet 4, line 4, column 5 |
| Investment Tax Credit | (D) | $(\$ 80,525)$ | Worksheet 4, line 5, column 5 |
| Property Tax Expense | (E) | \$5,910,565 | Worksheet 4, line 6, column 5 |
| Payroll Tax Expense | (F) | \$329,630 | Worksheet 4, line 22, column 5 |
| Operation \& Maintenance Expense | (G) | \$6,969,104 | Worksheet 4, line 11, column 5 |
| Administrative \& General Expense | (H) | \$7,272,016 | Worksheet 4, line 21, column 5 |
| Transmission Related Integrated Facilities Charge | (I) | \$66,747,070 | Attachment 4, line 6 |
| Transmission Support Revenue | (J) | (\$5,407,628) | Worksheet 6 |
| Transmission Support Expense | (K) | \$703,144 | Worksheet 6 |
| Transmission Related Expense from Generators | (L) | \$0 | Worksheet 7 |
| Transmission Related Taxes and Fees Charge | (M) | \$0 |  |
| Revenue for ST Trans. Service Under NEPOOL Tariff | (N) | $(\$ 293,308)$ | Attachment 7 |
| Transmission Rents Received from Electric Property | (O) | $(\$ 232,803)$ | Attachment 6 |
| Total Revenue Requirements (Line 14 thru 28) |  | \$114,042,830 |  |


|  |
| :--- |
| Line No. |
| 1 |
| 2 |
| 3 |
| 4 |
|  |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |

I. INVESTMENT BASE
Transmission Plant
General Plant
Plant Held For Future Use
Total Plant (Lines $1+2+3$ )
Accumulated Depreciation
Accumulated Deferred Income Taxes
Loss On Reacquired Debt
Other Regulatory Assets
$\quad$ Net Investment (Line 4+5+6+7+8)
Prepayments
Materials \& Supplies
Cash Working Capital
Total Investment Base (Line 9+10+11+12)

## II. REVENUE REQUIREMENTS

Total Revenue Requirements (Line 14 thru 28)

| I. INVESTMENT BASE | Attachment F <br> Reference | NEP | Reference |
| :---: | :---: | :---: | :---: |
|  | Section: |  |  |
| Transmission Plant | $(\mathrm{A})(1)(\mathrm{a})$ | \$339,265,312 | Worksheet 3, line 1\&2 column 5 |
| General Plant | (A)(1)(b) | \$1,315,614 | Worksheet 3, line 3 column 5 |
| Plant Held For Future Use | $(\mathrm{A})(1)(\mathrm{c})$ | \$211,853 | Worksheet 3, line 5 column 5 |
| Total Plant (Lines 1+2+3) |  | \$340,792,779 |  |
| Accumulated Depreciation | (A)(1)(d) | (\$77,582,706) | Worksheet 3, line 8 column 5 |
| Accumulated Deferred Income Taxes | $(\mathrm{A})(1)(\mathrm{e})$ | (\$80,928,770) | Worksheet 3, line 11 column 5 |
| Loss On Reacquired Debt | (A)(1)(f) | \$58,313 | Worksheet 3, line 12 column 5 |
| Other Regulatory Assets | $(\mathrm{A})(1)(\mathrm{g})$ | \$9,554,994 | Worksheet 3, line 16 column 5 |
| Net Investment (Line 4+5+6+7+8) |  | \$191,894,610 |  |
| Prepayments | $(\mathrm{A})(1)(\mathrm{h})$ | \$0 | Worksheet 3, line 17 column 5 |
| Materials \& Supplies | (A)(1)(i) | \$1,007,829 | Worksheet 3, line 18 column 5 |
| Cash Working Capital | $(\mathrm{A})(1)(\mathrm{j})$ | \$1,780,140 | Worksheet 3, line 25 column 5 |
| Total Investment Base (Line 9+10+11+12) |  | \$194,682,579 |  |
| II. REVENUE REQUIREMENTS |  |  |  |
| Investment Return and Income Taxes | (A) | \$24,360,748 | Worksheet 2 |
| Depreciation Expense | (B) | \$7,736,714 | Worksheet 4, line 3, column 5 |
| Amortization of Loss on Reacquired Debt | (C) | \$28,102 | Worksheet 4, line 4, column 5 |
| Investment Tax Credit | (D) | $(\$ 80,525)$ | Worksheet 4, line 5, column 5 |
| Property Tax Expense | (E) | \$5,910,565 | Worksheet 4, line 6, column 5 |
| Payroll Tax Expense | (F) | \$329,630 | Worksheet 4, line 22, column 5 |
| Operation \& Maintenance Expense | (G) | \$6,969,104 | Worksheet 4, line 11, column 5 |
| Administrative \& General Expense | (H) | \$7,272,016 | Worksheet 4, line 21, column 5 |
| Transmission Related Integrated Facilities Charge | (I) | \$66,747,070 | Attachment 4, line 6 |
| Transmission Support Revenue | (J) | $(\$ 5,407,628)$ | Worksheet 6 |
| Transmission Support Expense | (K) | \$703,144 | Worksheet 6 |
| Transmission Related Expense from Generators | (L) | \$0 | Worksheet 7 |
| Transmission Related Taxes and Fees Charge | (M) | \$0 |  |
| Revenue for ST Trans. Service Under NEPOOL Tariff | (N) | $(\$ 293,308)$ | Attachment 7 |
| Transmission Rents Received from Electric Property | (O) | (\$232,803) | Attachment 6 |
| Total Revenue Requirements (Line 14 thru 28) |  | \$114,042,830 |  |

Worksheet 2
Worksheet 4, line 3, column 5
Worksheet 4, line 4, column 5
Worksheet 4, line 5, column 5
Worksheet 4, line 6, column 5
Worksheet 4, line 22, column 5 Worksheet 4, line 11, column 5
Worksheet 4 , line 21, column 5
Attachment 4, line 6
Worksheet 6
Worksheet 6
Worksheet 7

Attachment 7
Attachment 6


## New England Power Company


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

(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
(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. |  |  |
|  | PTF Transmission Plant Allocation Factor | NEP |
| 1 | PTF Transmission Investment | \$352,959,991 |
| 2 |  | \$1,712,325,359 |
| 3 | Percent Allocation (Line 1/Line 2) | 20.6129\% |
|  | Transmission Wages and Salaries Allocation Factor |  |
| 4 | Direct Transmission Wages and Salaries | \$0 |
| 5 | Affiliated Company Transmission Wages and Salaries | \$18,493,757 |
| 6 | Total Transmission Wages and Salaries (Line 4 + Line 5) | \$18,493,757 |
| 7 | Total Wages and Salaries | \$0 |
| 8 | Administrative and General Wages and Salaries | \$0 |
| 9 | Affiliated Company Wages and Salaries less A\&G | \$18,533,501 |
| 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 |
| 13 | plus Transmission-Related General Plant | \$6,382,481 |
| 14 | $=$ Revised Numerator (Line $12+$ Line 13) | \$1,718,707,840 |
| 15 | Total Plant in Service | \$1,730,862,090 |
| 16 | Percent Allocation (Line 14 / Line 16) | 99.2978\% |

## New England Power Company Pre-97 RNs Revenue Requirments <br> 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.

TOTAL


Shading denotes an input

New England Power Company
2012 Informational Filing
PTF Plant Allocation

|  |  |  |  | Percent <br> Pre/Post |
| :--- | :--- | :--- | :--- | :--- |
|  | 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 $4+5$

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES $\underline{2012}$

| LINE <br> NO |  | (HVDC) |
| :---: | :---: | :---: |
|  |  | NHH/NEH |
|  |  | LEASE |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line | \$14,952,279 |
|  | Allocation |  |
| 2 | Miles used by NHH (a) | 224 |
| 3 | Total miles at Comerford Station | 253 |
| 4 | Percentage of Total Gross Plant leased by NHH (a) | 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 |

## Source:

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 $5+16 \mathrm{col}$ (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.

Total Current Year Book Depreciation on Equity AFUDC
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
2001 Transmission
2002 Transmission
2003 Transmission
2004 Transmission
$(\$ 8,299)$

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
\$958,985
Plant Allocator Factor ..... 99.2978\%
Allocated Transmission Related Book Depreciation on Equity AFUDC ..... \$384,655Plus: Specifically Identified Transmission-Related Equity AFUDCTotal Transmission-Related Equity AFUDC\$958,985\$1,343,640
Pre-97 PTF Allocation Factor ..... 20.6129\%
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 $\underline{2012}$ | $\begin{gathered} \text { MECO } \\ \underline{2012} \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 1 | Total Integrated Facilities Charges | \$77,884,781 | \$9,279,091 |
| 2 | Total 2012 PTF Property ( ${ }^{\text {a }}$ (NCO includes \$88M topside) | \$386,991,881 | \$24,868,977 |
| 3 | Total Transmission Plant in 2012 (NECO includes \$88M topside) | \$486,729,573 | \$47,856,277 |
| 4 | NECO or MECO PTF Plant Allocator | 79.51\% | 51.97\% |
| 5 | PTF Related Integrated Facilities Charge | \$61,925,101 | \$4,821,969 |
| 6 | Total Integrated Facilities |  | \$66,747,070 |

## Source:

1 FF1 Page 330.4 Lines $13 \& 14 \mathrm{Col}(\mathrm{n})$
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<br>Development of 2012 Regulatory Commission Expense

## Line

## No.

1 Total Regulatory Commission Expense - NEP
2 Less: New Hampshire PUC Assessment
3 Less: Mass Emergency Fund
4 Less Mass DPU Special Assessment
5 Less: Utility Expenses
6 Total Federal Assessments
$\underline{2012}$
\$3,645,548
\$63,704

## \$0

\$229,133
\$850,079
\$2,502,632

## Source

FERC Form1 Page 350.46d FERC Form1 Page 350.2d FERC Form1 Page 350.7d FERC Form1 Page 350.8d FERC Form1 Page 350.46c

Line 1 - (Line 2-5)

# Transmission Rents Received from Electric Property 

## New England Power Company

## 2012

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

2012
Revenues

Pre-97 PTF Percent
\$1,056,174
27.7708\%

Total Pre-97 PTF Revenue
\$ 293,308

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

Shading denotes an input

Submitted on:
Revenue Requirements for (year):
Rates Effective for the Period:
Through:
Customer:
Customer's NABs Number:
Name of Participant responsible for customer's billing:
DUNs number of Participant responsible for customer's billing:

|  | Pre-97 Revenue Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| Total of Attachment F - Sections A through I | \$118,127,016 ${ }^{\text {(a) }}$ | \$141,430,997 ${ }^{(f)}$ |
| Total of Attachment F - Section J - Support Revenue | \$5,407,628 (b) | \$0 (9) |
| Total of Attachment F - Section K - Support Expense | \$703,144 (c) | \$0 ${ }^{(n)}$ |
| 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 ${ }^{(0)=(a)-(b)+(c)+(d)}$ | \$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 Implementation Rule) | N/A | N/A ${ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$112,896,422 ${ }^{(n)=()+(1)}$ | \$192,105,342 ${ }^{(0)=()+(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requireme Post-96 Revenue Requirements Subtotals, Forecasted Revenue Require and True-ups (including interest) | nts \& ments | \$305,001,764 ${ }^{(p)=(n)+(0)}$ |

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

## POST-1996

|  |
| :---: |
| Line No. |
| 1 |
| 2 |
| 3 |
| 4 |
|  |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |

Shading denotes an input

|  | Attachme |  |
| :---: | :---: | :---: |
| I. INVESTMENT BASE | Reference | NEP |
|  | Section: |  |
| Transmission Plant | (A)(1)(a) | \$918,015,798 |
| General Plant | (A)(1)(b) | \$3,421,788 |
| Plant Held For Future Use | (A)(1)(c) | \$551,011 |
| Total Plant (Lines 1+2+3) |  | \$921,988,597 |
| Accumulated Depreciation | (A)(1)(d) | (\$201,785,268) |
| Accumulated Deferred Income Taxes | $(\mathrm{A})(1)(\mathrm{e})$ | (\$210,488,062) |
| Loss On Reacquired Debt | (A)(1)(f) | \$151,668 |
| Other Regulatory Assets | $(\mathrm{A})(1)(\mathrm{g})$ | \$24,851,635 |
| Net Investment (Line 4+5+6+7+8) |  | \$534,718,570 |
| Prepayments | $(\mathrm{A})(1)(\mathrm{h})$ | \$0 |
| Materials \& Supplies | (A)(1)(i) | \$2,621,268 |
| Cash Working Capital | (A)(1)(j) | \$4,629,975 |
| NEEWS CWIP | (A)(1)(k) | \$14,550,755 |
| Total Investment Base (Line 9+10+11+12+13) |  | \$556,520,569 |

$(A)(1)(e)$
$(A)(1)(f)$
(A)(1)(g)
\$556,520,569

## II. REVENUE REQUIREMENTS

Investment Return and Income Taxes

| (A) | $\$ 68,174,926$ |
| :--- | ---: |
| (B) | $\$ 20,122,458$ |
| (C) | $\$ 73,091$ |
| (D) | $(\$ 209,438)$ |
| (E) | $\$ 15,372,820$ |
| (F) | $\$ 857,337$ |
| (G) | $\$ 18,125,978$ |
| (H) | $\$ 18,913,825$ |
| (I) | $\$ 0$ |
| (J) | $\$ 0$ |
| (K) | $\$ 0$ |
| (L) | $\$ 0$ |
| (M) | $\$ 0$ |
| (N) | $(\$ 762,866)$ |
| (O) | $(\$ 605,499)$ |


| Reference |
| :---: |
| Worksheet 5 , line $1 \& 2$ column 5 |
| Worksheet 5 , line 3 column 5 |
| Worksheet 5 , line 5 column 5 |
|  |
| Worksheet 5 , line 8 column 5 |
| Worksheet 5 , line 11 column 5 |
| Worksheet 5 , line 12 column 5 |
| Worksheet 5 , line 16 column 5 |
|  |
| Worksheet 5 , line 17 column 5 |
| Worksheet 5 , line 18 column 5 |
| Worksheet 5 , line 25 column 5 |
| Worksheet 5 , line 26 column 5 |

Depreciation Expense
\$20,122,458
\$73,091 (\$209,438)
\$15,372,820
857,337
\$18,125,978
\$18,913,825
Amortization of Loss on Reacquired Debt
$(\$ 605,499)$

## Worksheet 3

Worksheet 6, line 3, column 5
Worksheet 6, line 4, column 5
Worksheet 6 , line 5, column 5
Worksheet 6 , line 6 , column 5
Worksheet 6, line 22, column 5
Worksheet 6 , line 11, column 5
Worksheet 6 , line 21 , column 5
Attachment 4, line 6
Worksheet 8
Worksheet 8

Attachment 7
Attachment 6

## New England Power Company

Post 1996 Regional Network Service Revenue Requirement For Test Year Ended 12/31/2012

Shading denotes an input

| Line No. | Description | Attachment F Reference | Forecasted Amount \$ | Reference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Forecasted Revenue Requirements for Forecasted Transmission Plant Additions (FTPA) |  | \$ 52,194,758 | Line 6 |
| 2 | Forecasted Revenue Requirements for Forecasted Transmission CWIP |  | \$152,047 | Line 9 |
| 3 | Forecasted Transmission Revenue Requirements |  | \$ 52,042,711 | Line 1 + Line 2 |
| 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 |


| Shading denotes an input | New England Power Company Annual Revenue Requirements For Costs in 2012 |  |  |  | - | PTF Revenue Requirements Worksheet 2 of 6 Page 1 of 2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  |  |  | PITALIZATION $12 / 31 / 2012$ | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | EQUITY PORTION |
|  | LONG-TERM DEBT | \$ | 410,350,000 | 35.77\% | 0.65\% | 0.23\% |  |
|  | PREFERRED STOCK | \$ | 1,111,700 | 0.10\% | 6.02\% | 0.01\% | 0.01\% |
|  | COMMON EQUITY | \$ | 735,600,299 | 64.13\% | 11.07\% | 7.10\% | 7.10\% |
|  | TOTAL INVESTMENT RETURN |  | \$1,147,061,999 | 100.00\% |  | 7.34\% | 7.11\% |

Cost of Capital Rate=

(a)+(b)+(c) Cost of Capital Rate $\quad=\quad 0.1191842$

|  | (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 NEEWS CWIP) | \$541,969,813 | From Worksheet 1 |
| x Cost of Capital Rate | 0.1191842 |  |
| $=$ Investment Return and Income Taxes | $\underline{\text { \$64,594,239 }}$ | To Worksheet 2 |


| Post 2003 PTF Investment Base w/ Incremental 100 bps : |  |  |  |
| :---: | :---: | :---: | :---: |
| Plant In-Service | \$ | 213,518,137 | From Attachment 1 |
| Accumulated Depreciation |  | $(46,296,429)$ | From Worksheets 5 \& 7 |
| Accumulate Deferred Income Taxes |  | $(48,612,947)$ | From Worksheets 5 \& 7 |
| Total Post-2003 Investment | \$ | 118,608,761 | Calculated |
| Incremental ROE: 1.00\% |  | 0.00641 | Calculated |
| Federal Income Taxes: |  | 0.00345 | Per Attachment F |
| State Income Taxes: |  | 0.00062 | Per Attachment F |
| Cost of Capital Rate |  | 0.01049 |  |
| Incremental Return and Taxes on Post-2003 PTF Investment | \$ | 1,244,200 |  |


|  |  |  |  |
| :---: | :---: | :---: | :---: |
| New England Power NEEWS In-Service | \$ | 56,490,343 | PowerPlant PTF 4 \& 5 reports - PTF only |
| Accumulated Depreciation |  | $(12,248,613)$ | From Worksheets 3 \& 5 |
| Accumulate Deferred Income Taxes |  | $(12,861,493)$ | From Worksheets 3 \& 5 |
| Total New England Power NEEWS Investment | \$ | 31,380,236 | Calculated |
| Incremental ROE: 1.25\% |  | 0.00802 | Calculated |
| Federal Income Taxes: |  | 0.00432 | Per Attachment F |
| State Income Taxes: |  | 0.00078 | Per Attachment F |
| Cost of Capital Rate |  | 0.01311 |  |
| Incremental Return and Taxes on NEEWS PTF Investment | \$ | 411,471 |  |


| NEEWS Allocation Factor |  |  |  |
| :---: | :---: | :---: | :---: |
| Total Transmission Investment |  | \$1,712,325,359 | Worksheet 7 Line 2 <br> Plant Accounting Records |
| Total NEEWS In-Service - NEP | \$ | 56,490,343 |  |
| For Accumulated Depreciation |  | 3.2990\% |  |
| NEEWS Allocation Factor |  | 3.2990\% |  |
| Plant Allocation Factor |  | 0.992978 | Worksheet 7 Line 16 |
| For Accumulated Deferred Income Taxes |  | 3.2759\% |  |


|  | $\begin{aligned} & \text { CAPITALIZATION } \\ & 12 / 31 / 2012 \\ & \hline \end{aligned}$ |  | $\begin{gathered} \text { CAPITALIZATION } \\ \text { RATIOS } \\ \hline \end{gathered}$ | COST OF CAPITAL | COST OF CAPITAL | EQUITY PORTION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$ | 410,350,000 | 35.77\% | 0.65\% | 0.23\% |  |
| PREFERRED STOCK | \$ | 1,111,700 | 0.10\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$ | 735,600,299 | 64.13\% | 11.32\% | 7.26\% | 7.26\% |
| TOTAL INVESTMENT RETURN |  | \$1,147,061,999 | 100.00\% |  | 7.50\% | 7.27\% |

Cost of Capital Rate=
(a) Weighted Cost of Capital
(b) Federal Income Tax
(c) State Income Tax

$=\quad 0.0071609$

## New England Power Company

| Shading denotes an input |  |  |  |  | $\begin{aligned} & \text { (4) } \\ & \text { PTF } \end{aligned}$ <br> Allocation Factor (b) | $\begin{gathered} (5)=(3) *(4) \\ \text { PTF } \\ \text { Allocated } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (1)Total |  | (2) <br> Wage/Plant Allocation Factors | $(3)=(1)^{*}(2)$ <br> Transmission <br> Allocated |  |  | Source Reference for Col (1) |
| Transmission Plant |  |  |  |  |  | \$918,015,798 | Attachment 1, Page 1 |
| Less: Plant Assoc. HVDC Leases |  |  |  |  |  | \$0 | Attachment 2 |
| General Plant | \$ | 6,396,194 | 99.7856\% (a) | \$6,382,481 | 53.6122\% (b) | \$3,421,788 | FERC Form 1 page 207.99g |
| Total (line $1+2+3$ ) |  |  |  | \$6,382,481 |  | \$921,437,586 |  |
| 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 |  |  |  |  |  |  |  |
| Transmission Accumulated Depreciation | \$ | $(371,277,823)$ |  | (\$371,277,823) | 53.6122\% (b) | (\$199,050,209) | FERC Form 1 page 219.25b |
| General Plant Accumulated Depreciation | \$ | $(5,112,522)$ | 99.7856\% (a) | (\$5,101,561) | 53.6122\% (b) | (\$2,735,059) | FERC Form 1 Page 219.28b |
| Total (line 6+7) |  |  |  | (\$376,379,384) |  | (\$201,785,268) |  |
| Transmission Accumulated Deferred Taxes |  |  |  |  |  |  |  |
| Accumulated Deferred Taxes (281-283) | \$ | $(508,206,767)$ | 99.2978\% (c) | (\$504,638,139) | 53.6122\% (b) | (\$270,547,608) | FERC Form 1 page 113.62-64 |
| 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 |
| Total (line 9+10) |  |  |  | (\$392,612,246) |  | (\$210,488,062) |  |
| 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 |  |  |  |  |  |  |  |
| FAS 106 | \$ | - | 99.7856\% (a) | \$0 | 53.6122\% (b) | \$0 | FERC Form 1 Page 232.8 f |
| 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 |
| FAS 109 ( Liability Account 254 ) Total (line $13+14+15$ ) | \$ | \$46,354,440 | 100.0000\% | $\begin{array}{r} \$ 0 \\ \hline \$ 46,354,440 \\ \hline \end{array}$ | 53.6122\% (b) | $\begin{array}{r} \$ 0 \\ \hline \$ 24,851,635 \\ \hline \end{array}$ | FERC Form 1 Page 278 |
| Transmission Prepayments | \$ | - | 99.7856\% (a) | \$0 | 53.6122\% (b) | \$0 | FERC Form 1 Page 111.57c |
| Transmission Materials and Supplies | \$ | 4,889,313 |  | \$4,889,313 | 53.6122\% (b) | \$2,621,268 | FERC Form 1 Page 227.8c |
| Cash Working Capital |  |  |  |  |  |  |  |
| Operation \& Maintenance Expense |  |  |  |  |  | \$18,125,978 | Worksheet 1, Line 20 |
| Administrative \& General Expense |  |  |  |  |  | \$18,913,825 | Worksheet 1, Line 21 |
| Transmission Support Expense |  |  |  |  |  | \$0 | Worksheet 8 |
| Subtotal (line $20+21+22$ ) |  |  |  |  |  | \$37,039,803 |  |
|  |  |  |  |  |  | 0.1250 $\$ 4.629,975$ | x $45 / 360$ |
|  |  |  |  |  |  |  |  |
| 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

| Shading denotes an input |  |  | New England Power Company |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Line } \\ \text { No. } \\ \hline \end{gathered}$ |  | $\begin{gathered} (1) \\ \text { Total }(\mathrm{g}) \\ \hline \end{gathered}$ | Wage/Plant Allocation Factors | $\begin{gathered} (3)=(1)^{*}(2) \\ \text { Transmission } \\ \text { Allocated } \\ \hline \end{gathered}$ | PTF <br> Allocation <br> Factor (b) | $\begin{gathered} (5)=(3)^{*}(4) \\ \text { PTF } \\ \text { Allocated } \\ \hline \end{gathered}$ | Source Reference for Col (1) |
| No. Depreciation Expense - - - - - - - - |  |  |  |  |  |  |  |
| 1 | Transmission Depreciation | \$37,176,180 |  | \$37,176,180 | 53.6122\% | \$19,930,968 | FERC Form 1 Page 336.7b |
| 2 | General Depreciation | \$357,944 | 99.7856\% (a) | \$357,177 | 53.6122\% | \$191,490 | FERC Form 1 Page 336.10b |
| 3 | Total (line 1+2) |  |  | \$37,533,357 |  | \$20,122,458 |  |
| 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) |
| Transmission Operation and Maintenance |  |  |  |  |  |  |  |
| 7 | Operation and Maintenance | \$56,023,206 |  | \$56,023,206 | 53.6122\% | \$30,035,273 | FERC Form 1 Page 321.112b |
| 8 | Transmission of Electricity by Others - \#565 | \$12,561,903 |  | \$12,561,903 | 53.6122\% | \$6,734,712 | FERC Form 1 Page 321.96b |
| 9 | Load Dispatching - \#561 (excl \#561.3) | \$9,651,875 |  | \$9,651,875 | 53.6122\% | \$5,174,583 | 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 | \$33,809,428 |  | \$33,809,428 | 53.6122\% | \$18,125,978 |  |
| Transmission Administrative and General |  |  |  |  |  |  |  |
| 12 | Total Administrative and General | \$36,456,496 |  |  |  |  | FERC Form 1 Page 323.197b |
| 13 | Less: Property Insurance (\#924) | \$113,624 |  |  |  |  | FERC Form 1 Page 323.185b |
| 14 | Less: Regulatory Commission Expenses (\#928) | \$3,645,548 |  |  |  |  | FERC Form 1 Page 323.189b |
| 15 | Less: General Adverising Expense (\#930.1) | \$0 |  |  |  |  | FERC Form 1 Page 323.191b |
| 16 | Subtotal [line 12 minus (13 thru 15)] | \$32,697,324 | 99.7856\% (a) | \$32,627,221 | 53.6122\% | \$17,492,171 |  |
| 17 | Plus: Property Insurance Allocated using Plant Allocatior | \$113,624 | 99.2978\% (c) | \$112,826 | 53.6122\% | \$60,489 | Line 13 |
| 18 | Plus: Regulatory Commission Expense | \$2,502,632 | 99.2978\% (c) | \$2,485,059 | 53.6122\% | \$1,332,295 | Attachment 5 Line 6 |
| 19 | Plus: Specifically identifed Trans. Related General Advertising Expense | \$0 |  | \$0 | 53.6122\% | \$0 | Line 15 |
| 20 | Plus: Specifically identified Trans. Related Regulatory Expense | \$53,850 |  | \$53,850 | 53.6122\% | \$28,870 | FERC Form 1 Page 350.18c |
| 21 | Total A\&G [line $16+(17$ thru 20)] | \$35,367,430 |  | \$35,278,956 |  | \$18,913,825 |  |
| 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) |
| (d) Payroll taxes - G/L 408.1 |  |  | (e) Property Taxes FF1, Page 263i |  |  |  |  |
|  | Federal Unemployment | \$0 | Line 4(i) | Massachusetts | \$24,657,699 |  | FERC Form 1 Page 263.10(i) |
|  | FICA | \$0 | Line 3(i) | New Hampshire | \$2,788,702 |  | FERC Form 1 Page 263.17(i) |
|  | Payroll Taxes | \$1,602,581 |  | Vermont | \$1,080,853 |  | FERC Form 1 Page 263.23(i) |
|  | State Unemployment | \$0 | Line 9 (i) | Maine | \$0 |  | n/a |
|  | Total | \$1,602,581 |  | Rhode Island | \$146,854 |  | FERC Form 1 Page 263.28(i) \& 35(i) |
|  |  |  |  | Connecticut | $\begin{array}{r} \$ 0 \\ \hline \$ 28,674,108 \end{array}$ |  | FERC Form 1 Page 263.31(i) |
| (a) Worksheet 7, Line 11 |  |  |  |  |  |  |  |
| (b) Worksheet 7 Line 3 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| (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. |  |  |  |  |  |  |  |

Shading denotes an input


## 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.

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

New England Power Company
2012 Informational Filing
PTF Plant Allocation

Total | Percent |
| :---: |
| Pre/Post |

1

## 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

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES

## $\underline{2012}$

| LINE <br> NO |  | (HVDC) <br> NHH/NEH <br> LEASE |
| :---: | :--- | :---: |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line |  |$\quad$| (a) |
| :---: |

## 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.

Total Current Year Book Depreciation on Equity AFUDC
Less: Specifically identified Transmission-Related Tewksbury Line
Hydro-Quebec
MontaupTransmission $\quad \$ 9,777$

1998 Transmission
1999 Transmission
2000 Transmission
2001 Transmission
2002 Transmission
2003 Transmission
2004 Transmission
2005 Transmission
2006 Transmission
2007 Transmission
2008 Transmission
2009 Transmission
2010 Transmission
2011 Transmission
2012 Transmission

Total unidentified Book Depreciation on Equity AFUDC
Plant Allocator Factor
Allocated Transmission Related Book Depreciation on Equity AFUDC
\$384,655
Plus: Specifically Identified Transmission-Related Equity AFUDC Total Transmission-Related Equity AFUDC
\$958,985
\$1,343,640
Post-96 PTF Allocation Factor
53.6122\%

Transmission-Related Equity AFUDC

## 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 <br> Determination of the PTF Related Integrated Facilities Charges 

|  | Narragansett <br> 2012 | MECO <br> $\underline{\mathbf{2 0 1 2}}$ |  |
| :--- | :--- | ---: | ---: |
| 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 |  |  |  |
| :---: | :---: | :---: | :---: |
| No. |  | $\underline{2012}$ | 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

## $\underline{2012}$

Revenues
Plant Allocation Factor
Transmission Allocated
PTF Allocation
Total PTF Revenue
\$1,129,406
100.00\%
\$1,129,406
53.6122\%
\$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

## 2012

Revenues

Post-96 PTF Percent

Total Post-96 PTF Revenue
\$1,056,174
72.2292\%
\$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

Shading denotes an input

Submitted on:
Revenue Requirements for (year):
Rates Effective for the Period:
Through:
Calendar Year 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 Requirements | Post-96 Revenue Requirements |
| :---: | :---: | :---: |
| 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 ${ }^{(0)}$ | \$0 ${ }^{(9)}$ |
| Total of Attachment F - Section K - Support Expense | \$703,144 (c) | \$0 ${ }^{(n)}$ |
| Total of Attachment F - Section (L through O) | $(\$ 526,111){ }^{\text {(d) }}$ | $(\$ 1,368,365){ }^{(1)}$ |
| Sub Total - Sum (A through I) - J $+\mathrm{K}+(\mathrm{L}$ through O$)$ | \$112,896,422 ${ }^{(0)=(a)-(b)+(c)+(d)}$ | \$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 ${ }^{(1)}$ | $\mathrm{N} / \mathrm{A} \quad{ }^{(m)}$ |
| Adjusted Sub Total - Sum (Sub Total + Forecast + True-up) | \$112,896,422 $(\mathrm{n})=(\mathrm{e})+(\mathrm{l})$ | \$192,105,342 ${ }^{(0)=(0)+(k)+(m)}$ |
| Annual Revenue Requirement Total = Sum of Pre-97 Revenue Requiremen and Post-96 Revenue Requirements Subtotals for rate calculations under | nts the Tariff: | \$305,001,764 ${ }^{(p)=(n)+(0)}$ |

New England Power Company

## Annual Revenue Requirements of PTF Facilities

 For Costs in 2012PRE-1997

|  |
| :---: |
| Line No. |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |

Shading denotes an input

## II. REVENUE REQUIREMENTS

| Investment Return and Income Taxes | (A) |
| :--- | ---: |
| Depreciation Expense | (B) |
| Amortization of Loss on Reacquired Debt | (C) |
| Investment Tax Credit | (D) |
| Property Tax Expense | (E) |
| Payroll Tax Expense | (F) |
| Operation \& Maintenance Expense | (G) |
| Administrative \& General Expense | (H) |
| Transmission Related Integrated Facilities Charge | (I) |
| Transmission Support Revenue | (J) |
| Transmission Support Expense | (K) |
| Transmission Related Expense from Generators | (L) |
| Transmission Related Taxes and Fees Charge | (M) |
| Revenue for ST Trans. Service Under NEPOOL Tariff | (N) |
| Transmission Rents Received from Electric Property | (O) |


| $(A)$ | $\$ 23,214,340$ |
| :---: | ---: |
| (B) | $\$ 7,736,714$ |
| (C) | $\$ 28,102$ |
| (D) | $(\$ 80,525)$ |
| (E) | $\$ 5,910,565$ |
| (F) | $\$ 329,630$ |
| $(G)$ | $\$ 6,969,104$ |
| (H) | $\$ 7,272,016$ |
| (I) | $\$ 66,747,070$ |
| (J) | $(\$ 5,407,628)$ |
| (K) | $\$ 703,144$ |
| (L) | $\$ 0$ |
| (M) | $\$ 0$ |
| (N) | $(\$ 293,308)$ |
| (O) | $(\$ 232,803)$ |

## I. INVESTMENT BASE <br> Transmission Plant <br> General Plant <br> Plant Held For Future Use <br> Total Plant (Lines 1+2+3) <br> Accumulated Depreciation <br> Accumulated Deferred Income Taxes <br> Loss On Reacquired Debt <br> Other Regulatory Assets <br> Net Investment (Line 4+5+6+7+8) <br> Prepayments <br> Materials \& Supplies <br> Cash Working Capital <br> Total Investment Base (Line 9+10+11+12) <br> INVESTMENT BASE

Attachment F

| Reference | NEP | Reference |
| :---: | :---: | :---: |
| Section: |  |  |
| $(\mathrm{A})(1)(\mathrm{a})$ | \$339,265,312 | Worksheet 3 , line 1\&2 column 5 |
| $(\mathrm{A})(1)(\mathrm{b})$ | \$1,315,614 | Worksheet 3 , line 3 column 5 |
| $(\mathrm{A})(1)(\mathrm{c})$ | \$211,853 | Worksheet 3 , line 5 column 5 |
|  | \$340,792,779 |  |
| $(\mathrm{A})(1)(\mathrm{d})$ | $(\$ 77,582,706)$ | Worksheet 3, line 8 column 5 |
| $(\mathrm{A})(1)(\mathrm{e})$ | (\$80,928,770) | Worksheet 3, line 11 column 5 |
| $(\mathrm{A})(1)(\mathrm{f})$ | \$58,313 | Worksheet 3, line 12 column 5 |
| $(\mathrm{A})(1)(\mathrm{g})$ | \$9,554,994 | Worksheet 3, line 16 column 5 |
|  | \$191,894,610 |  |
| $(\mathrm{A})(1)(\mathrm{h})$ | \$0 | Worksheet 3, line 17 column 5 |
| $(\mathrm{A})(1)(\mathrm{i})$ | \$1,007,829 | Worksheet 3, line 18 column 5 |
| $(\mathrm{A})(1)(\mathrm{j})$ | \$1,780,140 | Worksheet 3, line 25 column 5 |
|  | \$194,682,579 |  |

Worksheet 2
Worksheet 4, line 3, column 5 Worksheet 4, line 4, column 5 Worksheet 4, line 5, column 5 Worksheet 4, line 6, column 5 Worksheet 4, line 22, column 5 Worksheet 4, line 11, column 5 Worksheet 4 , line 21, column 5 Attachment 4, line 6

Worksheet 6
Worksheet 6
Worksheet 7

Attachment 7
Attachment 6

Total Revenue Requirements (Line 14 thru 28)
\$112,896,422

|  | CAPITALIZATION <br> 12/31/2012 |  | CAPITALIZATION RATIOS | COST OF CAPITAL | COST OF CAPITAL | $\begin{aligned} & \text { EQUITY } \\ & \text { PORTION } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LONG-TERM DEBT | \$ | 410,350,000 | 35.77\% | 0.65\% | 0.23\% |  |
| PREFERRED STOCK | \$ | 1,111,700 | 0.10\% | 6.02\% | 0.01\% | 0.01\% |
| COMMON EQUITY | \$ | 735,600,299 | 64.13\% | 11.07\% | 7.10\% | 7.10\% |
| TOTAL INVESTMENT RETURN |  | \$1,147,061,999 | 100.00\% |  | 7.34\% | 7.11\% |

## Cost of Capital Rate=



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

## Attachment

Shading denotes an input

Transmission Depreciation
General Depreciation

Amortization of Loss on Reacquired Debt

Amortization of Investment Tax Credits

Property Taxes
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
Transmission Administrative and General
Total Administrative and General
Less: Property insurance (H924)
Less: Regulatory Cormission Expenses (\#\#28)
Less: General Adverising Expense (\#930.1)
Subtotal [line 12 minus ( 13 thru 15)]
Plus: Property Insurance Allocated using Plant Allocatior
Pus: Regulatory Cormission Experse
Pus: Speedicically idenitifed Trans. Related General Adverising Expens
Plus: Speedifcally identified Trans. Related Regulatory Expense
Total A\&G [line 16 + ( 17 thru 20)]
Payroll Tax Expense
(d) Payroll taxes - G/L 408.1
Federal Unemployment
FICA

FICA
Payroll Taxes
State Unemployment
Total

## New England Power Company

 $\$ 37,176,180$ $\$ 37,176,180$
$\$ 357,944$

$(3)=(1)$
Transmis
Allocat
99.7856\% (a)

$(5)=(3)$

PTF PTF | $20.6129 \%$ | (b) |
| ---: | ---: |
| $20.6129 \%$ | (b) |
|  | $\$ 7,663,089$ |
|  | $\$ 73,625$ |

\$136,332
(\$390,654)
100.0000\%
\$36,456,496
\$113,624
\$3,645,548

| $\$ 0$ |
| ---: |
| $\$ 32,697,324$ |
| $\$ 113,624$ |
| $\$ 2,502,632$ |
| $\$ 0$ |
| $\$ 53,850$ |
| $\$ 35,367,430$ |

\$1,602,581
$\qquad$ 20.6129\% (b) $\qquad$ FERC Form 1 Page 263.10,17,23,28i - Footnote (e)

| $\$ 56,023,206$ |
| ---: |
| $\$ 12,561,903$ |
| $\$ 9,651,875$ |
| $\$ 33,809,428$ |


| $20.6129 \%$ | (b) |
| ---: | ---: | | $\$ 11,548,007$ |  |  |
| :---: | :---: | :---: |
| $20.6129 \%$ | (b) | $\$ 2,589,372$ |
| $20.6129 \%$ | (b) | $\$ 1,989,531$ |
| $20.6129 \%$ | (b) | $\$ 0$ |
|  | $\$ 6,969,104$ |  |

Source Reference for Col (1)
FERC Form 1 Page 336.7b
FERC Form 1 Page 336.10b
FERC Form 1 Page 117.64c
FERC Form 1 Page 266.8f - Footnote (f)
FERC Form 1 Page 263.10,17,23,28i - Footnote (e)
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

FERC Form 1 Page 323.197b FERC Form 1 Page 323.185b FERC Form 1 Page 323.189b FERC Form 1 Page 323.191b

$$
\text { Line } 13
$$

$$
\begin{aligned}
& \text { Attachment } 5 \text { Line } 6 \\
& \text { Line } 15
\end{aligned}
$$

FERC Form 1 Page 350.10c

FERC Form 1 Page 263.3,4i - Footnote (d)
(e) Property Taxes FF1, Page 263i

| Massachusetts | $\$ 24,657,699$ |
| :--- | ---: |
| New Hampshire | $\$ 2,788,702$ |
| Vermont | $\$ 1,080,853$ |
| Maine | $\$ 0$ |
| Rhode Island | $\$ 146,854$ |
| Connecticut | $\$ 0$ |
|  |  |
|  | $\$ 28,674,108$ |

FERC Form 1 Page 263.10(i)
FERC Form 1 Page 263.17(i)
FERC Form 1 Page 263.23(i)
n/a
ERC 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.

|  | Shading denotes an input |  |
| :---: | :---: | :---: |
| Line No. |  |  |
|  | PTF Transmission Plant Allocation Factor | NEP |
| 1 | PTF Transmission Investment | \$352,959,991 |
| 2 |  | \$1,712,325,359 |
| 3 | Percent Allocation (Line 1/Line 2) | 20.6129\% |
|  | Transmission Wages and Salaries Allocation Factor |  |
| 4 | Direct Transmission Wages and Salaries | \$0 |
| 5 | Affiliated Company Transmission Wages and Salaries | \$18,493,757 |
| 6 | Total Transmission Wages and Salaries (Line 4 + Line 5) | \$18,493,757 |
| 7 | Total Wages and Salaries | \$0 |
| 8 | Administrative and General Wages and Salaries | \$0 |
| 9 | Affiliated Company Wages and Salaries less A\&G | \$18,533,501 |
| 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 |
| 13 | plus Transmission-Related General Plant | \$6,382,481 |
| 14 | = Revised Numerator (Line $12+$ Line 13) | \$1,718,707,840 |
| 15 | Total Plant in Service | \$1,730,862,090 |
| 16 | Percent Allocation (Line 14 / Line 16) | 99.2978\% |

## Source

 Reference
## PTF Transmission Plant Allocation Factor

PTF Transmission Investment

Percent Allocation (Line 1/Line 2)

Transmission Wages and Salaries Allocation Factor
Direct Transmission Wages and Salaries Total Transmission Wages and Salaries (Line 4 + Line 5)

Total Wages and Salaries
Administrative and General Wages and Salaries
Company Wages and Salaries less A\&G

Percent Allocation (Line 6/Line 10)
\$1,712,325,359
\$1,718,707,840
\$1,730,862,090
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.

|  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: |
| 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 $8 \mathrm{Col}(\mathrm{n})$ | \$366,468 |  |
| NU | Public Service Co. -Moore 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 |

Shading denotes an input

New England Power Company<br>2012 Informational Filing<br>PTF Plant Allocation

|  |  |  | Percent <br> 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 | $\$ 1,270,975,789$ | $100.00 \%$ |

## 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 $4+5$

Shading denotes an input

## GROSS PLANT ASSOC. WITH HVDC LEASES $\underline{2012}$

| LINE <br> NO |  | (HVDC) |
| :---: | :---: | :---: |
|  |  | NHH/NEH |
|  |  | LEASE |
| 1 | Gross Plant Value Comerford Station to Tewksbury Line | \$14,952,279 |
|  | Allocation |  |
| 2 | Miles used by NHH (a) | 224 |
| 3 | Total miles at Comerford Station | 253 |
| 4 | Percentage of Total Gross Plant leased by NHH (a) | 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 |

## Source:

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 $5+16 \mathrm{col}$ (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.

Total Current Year Book Depreciation on Equity AFUDC
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
2001 Transmission
2002 Transmission
2003 Transmission
2004 Transmission
$(\$ 8,299)$

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
\$958,985
Total Unidentified Book Depreciation on Equity AFUDC
\$387,375
Plant Allocator Factor 99.2978\%
Allocated Transmission Related Book Depreciation on Equity AFUDC \$384,655
Plus: Specifically Identified Transmission-Related Equity AFUDC
Total Transmission-Related Equity AFUDC
\$958,985

Pre-97 PTF Allocation Factor
20.6129\%

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 2012 | $\begin{gathered} \text { MECO } \\ \underline{2012} \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 1 | Total Integrated Facilities Charges | \$77,884,781 | \$9,279,091 |
| 2 | Total 2012 PTF Property (NECO includes \$88M topside) | \$386,991,881 | \$24,868,977 |
| 3 | Total Transmission Plant in 2012 (NECO includes \$88M topside) | \$486,729,573 | \$47,856,277 |
| 4 | NECO or MECO PTF Plant Allocator | 79.51\% | 51.97\% |
| 5 | PTF Related Integrated Facilities Charge | \$61,925,101 | \$4,821,969 |
| 6 | Total Integrated Facilities |  | \$66,747,070 |

## 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<br>Development of 2012 Regulatory Commission Expense

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

# Transmission Rents Received from Electric Property 

## New England Power Company

## 2012

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

Revenues

Pre-97 PTF Percent
Total Pre-97 PTF Revenue
\$1,056,174
27.7708\%
\$ 293,308

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

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Attachment 6

## Service List of Participating Transmission Owners

# Service List of Participating Transmission Owners 

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[^0]:    ${ }^{1}$ Capitalized terms used, but otherwise not defined in this filing letter, are intended to have the meanings ascribed to them by the ISO Tariff.
    ${ }^{2}$ See ISO Tariff, Section II, Schedule 1.
    ${ }^{3}$ See ISO Tariff, Section II, Schedule 8.
    ${ }^{4}$ See ISO Tariff, Section II, Schedule 9.
    ${ }^{5}$ As stated in the July 31 Informational Filing, the PTOs are aware of the Commission Staff Guidance on Formula Rate Updates issued July 17, 2014. The PTOs are still in the process of reviewing applicable formula rate protocols for consistency with the Commission Staff's guidance. During its review of the guidelines, FG\&E discovered an omission that would result in an increase of $\$ 1,640$ to its transmission revenue requirements for the period covered by this informational filing. Since this error would result in an increase to transmission rates, FG\&E proposes to waive collection of these revenues for the remainder of the present rate year and prior year periods, but will make this correction to its revenue requirement in the 2015-2016 rate year, and any other corrections or clarifications determined to be appropriate under the PTO review process as part of the next Annual Informational filing that will be submitted to the Commission in July, 2015.

[^1]:    ${ }^{6}$ See ISO Tariff, Section II, Schedule 1, and Attachment F "Implementation Rule." See also ISO Tariff Section II. 8.7 ("The ISO and the PTOs shall (consistent with Attachment L4 to this OATT) calculate refunds from the PTOs to the ISO and/or surcharges by the PTOs to the ISO, which will be passed through by the ISO to its Customers, attributable to adjustments associated with charges under Attachment F and Schedules 1, 8 and 9 of this OATT resulting from: (i) an audit of the regional rates; (ii) a Commission order . . . or (iii) a billing correction.").
    ${ }^{7}$ See Section II.25.2 of the ISO Tariff. The TOUT rate is derived directly from the RNS rate. The ISO updates the TOUT rate based on the pool RNS rate, and therefore the PTOs are not submitting supporting documents regarding changes to the TOUT with this filing.
    ${ }^{8}$ ISO Tariff, Section II, Attachment F, Implementation Rule.
    ${ }^{9}$ New England Power Company, 147 FERC $\mathbb{1}$ 61,187 (June 6, 2014)("Limited Tariff Waiver").

[^2]:    ${ }^{10}$ As part of the Limited Tariff Waiver, NEP has agreed that its shareholders, not customers, will pay ISO-NE’s administrative charges necessary to rebill customers for the period from June 1, 2014 through September 30, 2014. In accordance with the Billing Protocol under Section I of the ISO Tariff, revised rates for transmission service rendered after October 1, 2014 will be captured in real time under ISO-NE's 90-day resettlement period.
    ${ }^{11}$ A corresponding decrease to NEP's non-PTF plant values will be reflected shortly in cumulative refunds, with interest, that will be applied to the bills of transmission customers taking Local Network Services over NEP's nonPTF transmission facilities under Schedule 21-NEP of the ISO Tariff.

[^3]:    ${ }^{12}$ See ISO Tariff, Exhibit I D (ISO New England Billing Policy), Section 2.6(a) ("Adjustments Requested by Covered Entities").
    ${ }^{13}$ Id., and See ISO-NE Re-Billing Policy at: http://www.iso-ne.com/stlmnts/assur_crdt/misc/rebilling_protocol.pdf

[^4]:    * Change to PTF plant results in a change to the PTF allocation factor used in the rate base and expense calculation worksheets
    ** Change to Narragansett and Mass Electric PTF Plant results in a change to the PTF Plant allocator used to calculate the Integrated Facilities Charge *** Change to Post 2003 PTF Investment Base w/ Incremental 100 bps results in a change to the incremental return on Post 2003 PTF investment **** Change to NEEWS In-Service results in a change to the incremental return on NEEWS PTF Investment

[^5]:    ** Subtract Accounts \#562 \& \#567 from O\&M Expense to the extent that they include PTF Support Payments.

[^6]:    ** Subtract Accounts \#562 \& \#567 from O\&M Expense to the extent that they include PTF Support Payments.

[^7]:    Worksheet 2
    Worksheet 4, line 3, column 5 Worksheet 4, line 4, column 5 Worksheet 4, line 5, column 5 Worksheet 4, line 6, column 5 Worksheet 4 , line 22, column 5 Worksheet 4 , line 11, column 5 Worksheet 4, line 21, column 5

    Attachment 4, line 6
    Worksheet 6
    Worksheet 6
    Worksheet 7
    Attachment 7
    Attachment 6

[^8]:    (a) Worksheet 5 Line 11
    (b) Worksheet 5 Line 3

[^9]:    ** Subtract Accounts \#562 \& \#567 from O\&M Expense to the extent that they include PTF Support Payments.

[^10]:    Source:
    FF1 Page 330.4 Lines 13 \& $14 \mathrm{Col}(\mathrm{n})$
    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

