



**Public Service  
of New Hampshire**

780 N. Commercial Street, Manchester, NH 03101

<b>ORIGINAL</b>	
N.H.P.U.C. Case No. <u>DE 11-215</u>	Public Service Company of New Hampshire P. O. Box 330 Manchester, NH 03105-0330 (603) 634-2961 Fax (603) 634-2438 eatongm@psnh.com
Exhibit No. <u>H2</u>	
Witness <u>R. Baumann &amp; F. White</u>	
DO NOT REMOVE FROM FILE	

**Gerald M. Eaton**  
Senior Counsel

December 14, 2011

***By Hand Delivery and Electronic Mail***

Debra A. Howland  
Executive Director  
New Hampshire Public Utilities Commission  
21 South Fruit Street Suite 10  
Concord, New Hampshire 03301-2429

Re: Public Service Company of New Hampshire  
Docket No. DE 11-215 - Default Energy Service Rate  
Docket No. DE 11-217 - Petition to Establish 2012 Stranded Cost Recovery Charge

Dear Ms. Howland:

In accordance with the procedural schedules in Docket Nos. DE 11-215 and DE 11-217, I enclose for filing an original and six copies of the following:

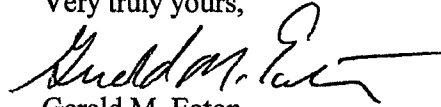
1. Docket DE 11-215: Updated exhibits and supporting Technical Statement to the testimony of Robert A. Baumann that reflect Public Service Company of New Hampshire's ("PSNH") most recent calculation of a Default Energy Service rate of 7.90 cents per kilowatt-hour for the period from January 1, 2012 through December 31, 2012 and the Joint Technical Statement of Robert A. Baumann and Frederick B. White which describes the changes in revenues and expenses used for this filing compared to the original September 23, 2011 filing in this proceeding.
2. Docket DE 11-217: Revised exhibits of Robert A. Baumann that reflect PSNH's revised calculation of an average Stranded Cost Recovery Charge (SCRC) of 1.23 cents per kilowatt-hour. The increase in the calculated average SCRC rate is attributable to a decrease in market prices. Part 2 Stranded Costs recovers the above-market costs of small power producers who sell to PSNH under rate orders or long term contracts. When market prices decrease, the above market costs of small power producers included in the SCRC increases.

In addition, I also enclose for filing in DE 11-215 and DE 11-217 an original and six copies of PSNH's Motion for Postponement of December 19 Hearings and Request for Waiver of Puc 203.13(a). In that Motion for Postponement, the Company is requesting that the hearings

scheduled for December 19, 2011 in Dockets DE 11-215 and DE 11-217 be postponed until a date closer to when the Commission holds a hearing on temporary rates in Docket DE 11-250 in order to avoid volatility in the Company's energy service rate. If the Commission grants PSNH's Motion for Postponement, the currently-effective rates would remain in effect until that time.

Thank you for your assistance with this matter.

Very truly yours,

A handwritten signature in black ink, appearing to read "Gerald M. Eaton", with a stylized flourish at the end.

Gerald M. Eaton  
Senior Counsel

Enclosures

cc: DE 11-215 and DE 11-217 Service Lists (via electronic mail only)

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Docket #: 11-215-1 Printed: October 14, 2011

**FILING INSTRUCTIONS:**

- a) Pursuant to N.H. Admin Rule Puc 203.02 (a), with the exception of Discovery, file 7 copies, as well as an electronic copy, of all documents including cover letter with:

DEBRA A HOWLAND  
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NHPUC  
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- b) Serve an electronic copy with each person identified on the Commission's service list and with the Office of Consumer Advocate.

- c) Serve a written copy on each person on the service list not able to receive electronic mail.

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Docket #: 11-217-1 Printed: December 13, 2011

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- a) Pursuant to N.H. Admin Rule Puc 203.02 (a), with the exception of Discovery, file 7 copies, as well as an electronic copy, of all documents including cover letter with:**

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**THE STATE OF NEW HAMPSHIRE  
BEFORE THE  
NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION**

**Public Service Company of New Hampshire  
Energy Service Rate – Revised**

**Docket No. DE 11-215**

**Technical Statement of  
ROBERT A. BAUMANN**

**December 14, 2011**

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**Purpose of Technical Statement**

This Technical Statement summarizes the revised proposed Energy Service rate based on an effective date of January 1, 2012. The summary below includes rates with and without the costs associated with the Merrimack Scrubber to facilitate a full understanding of the issues before the Commission. We fully recognize the Commission's secretarial letter of November 15, 2011 which stated that the Commission would not consider the costs of the Scrubber Project in this docket. However, to fully present this revised ES rate, PSNH believes an understanding of the future ES rate path with and without Scrubber costs is essential to a final determination in this proceeding.

**Rate Summary**

**Energy Service Rate (cents per kWh) – No Scrubber costs included**

Current rate in effect	8.89 cents/kWh
Preliminary rate filed September 23, 2011	8.39
Revised rate filed December 14, 2011	7.90

**Energy Service Rate (cents per kWh) – Including Scrubber costs of 1.18¢/kWh (based upon a January 1, 2012, scrubber temporary rate effective date)**

Preliminary rate filed October 14, 2011	9.57
Revised rate filed December 14, 2011	9.08



**PSNH ES rate proposal for 2012**

As stated in its accompanying Motion, PSNH recommends that the current ES rate of 8.89 cents per kWh be continued in the short term until review and action occurs in Docket No. DE 11-250. We believe this maintains rate continuity and is the best alternative to avoiding a seesaw ES rate and future rate spikes. This will also give all parties the appropriate time to examine the facts surrounding our temporary rates request in Docket No. DE 11-250.

THE STATE OF NEW HAMPSHIRE  
BEFORE THE  
NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

**Public Service Company of New Hampshire  
Energy Service Rate – Revised Estimate**

**Docket No. DE 11-215**

**Joint Technical Statement of  
Robert A. Baumann and Frederick B. White**

**December 14, 2011**

**A. Purpose of Technical Statement**

This Technical Statement is being submitted to explain the major changes to Public Service Company's proposed Default Energy Service (ES) Rate effective January 1, 2012. This filing updates the Company's ES filing that was submitted on September 23, 2011.

**B. Proposed Rate**

On September 23, 2011, PSNH filed a preliminary 2012 ES rate of 8.39 cents/kWh to be effective for the 12 month period January 1 through December 31, 2012. In this filing, PSNH has calculated an ES rate of 7.90 cents/kWh for effect on January 1, 2012, which is a decrease of 0.99 cents/kWh from the currently effective ES rate of 8.89 cents/kWh. The rates above do not include costs associated with the wet flue desulfurization system ("Scrubber Project") at Merrimack Station which was placed in service on September 28, 2011.

The decrease in the ES rate from the September 23, 2011 filing to this December 14, 2011 filing is attributable to a net decrease in actual and forecasted costs of \$25.5 million [a decrease of \$43.0 million in expense, net of a revenue decrease of \$17.5 million] which is contained in Attachment RAB-1.

The 2012 forecasted cost changes are contained in Attachment RAB-2, page 3, and are specifically referenced below. The forecasted cost and revenue changes are attributable to a decrease in forward electricity prices as of November 30, 2011, lower load due to a lower sales forecast and increased customer migration, the planned sell-back of contracted coal, and other changes as noted below.

**C. Changes to Attachment RAB-2, page 3 from September 23, 2011 Filing**

For the forecast period January through December 2012, the impact of power supply variable cost updates is to lower ES costs by \$28.4 million. Following is a discussion of the major changes:

1. Lines 4 and 5 – Projected coal generation decreased by 720 GWh to 2,014 GWh due to increased economic reserve shutdowns modeled during March, April, June, October, and November. Lower coal generation is offset in part by increased economic purchases as noted in item 3 below. Coal fuel expense decreased \$37.8 million reflecting lower generation, lower dispatch prices, and an estimated \$5 million of benefit from the planned sale of coal.

2. Lines 17 and 18 – IPP Energy decreased by 111 GWh due to a revised forecast based on current IPPs on short term rates. IPP Energy Expense decreased by \$8.1 million reflecting lower energy amounts and lower forward electricity prices. A table showing forecasted forward electricity prices as of November 30, 2011 is provided below.

Forward Electricity Prices for Delivery at Massachusetts Hub

All Hours - \$/MWh

Filing Dates

<u>2012</u>	<u>September 23, 2011</u>	<u>December 14, 2011</u>	<u>Change</u>	
	<u>(8/31/11 Closing Prices)</u>	<u>(11/30/11 Closing Prices)</u>	<u>\$/MWh</u>	<u>%</u>
Jan	66.2	59.3	(6.8)	-10.3%
Feb	66.5	56.0	(10.5)	-15.8%
Mar	48.1	42.0	(6.1)	-12.7%
Apr	45.0	38.2	(6.7)	-15.0%
May	42.9	38.1	(4.8)	-11.2%
Jun	44.2	39.2	(4.9)	-11.2%
Jul	49.3	44.5	(4.9)	-9.9%
Aug	49.6	44.8	(4.8)	-9.7%
Sep	43.2	38.9	(4.3)	-9.9%
Oct	45.6	40.8	(4.8)	-10.5%
Nov	47.6	42.6	(5.0)	-10.5%
Dec	56.5	52.6	(3.9)	-6.9%
Total	50.3	44.7	(5.6)	-11.1%

3. Lines 21 and 22, 27 and 28, and 30 & 31 – Net purchases increased by 652 GWh increasing expenses by \$18.5 million. The net increase in net purchases is primarily due to lower coal generation and energy from IPPs, offset by lower loads.

4. Line 35 – Total Energy decreased 145 GWh due to a lower sales forecast (approx. 1.7%) and an increase in migration from 33.4% to 34.0%. Total ES sales are lower by 137 GWh. The table below shows the forecasted sales and migration (Non-ES sales) as measured at the customer meter used for calculating the preliminary ES rate filed in September and for this filing. The amount of migration modeled in this update is as of November, 2011 and is 34.0% of forecasted total PSNH sales. Overall, 2012 ES sales are lower by 2.6% from the estimates used in the September, 2011 preliminary ES rate filing.

PSNH ES Sales Forecast

MWh

Filing Dates

<u>2012</u>	<u>September 23, 2011</u>			<u>December 14, 2011</u>			<u>Change</u>			
	<u>Total</u>	<u>Non-ES</u>	<u>ES</u>	<u>Total</u>	<u>Non-ES</u>	<u>ES</u>	<u>Total</u>	<u>Non-ES</u>	<u>ES</u>	<u>ES %</u>
Jan	715,776	239,069	476,707	706,793	240,310	466,483	(8,983)	1,240	(10,223)	-2.1%
Feb	652,663	217,989	434,674	639,226	217,337	421,889	(13,437)	(653)	(12,784)	-2.9%
Mar	651,906	217,737	434,169	638,234	217,000	421,234	(13,672)	(737)	(12,935)	-3.0%
Apr	596,366	199,186	397,180	584,206	198,630	385,576	(12,160)	(556)	(11,604)	-2.9%
May	595,168	198,786	396,382	588,006	199,922	388,084	(7,162)	1,136	(8,298)	-2.1%
Jun	644,822	215,371	429,451	632,285	214,977	417,308	(12,537)	(394)	(12,143)	-2.8%
Jul	741,737	247,740	493,997	727,553	247,368	480,185	(14,184)	(372)	(13,812)	-2.8%
Aug	709,914	237,111	472,803	703,408	239,159	464,249	(6,506)	2,047	(8,553)	-1.8%
Sep	620,356	207,199	413,157	612,453	208,234	404,219	(7,903)	1,035	(8,938)	-2.2%
Oct	612,852	204,693	408,160	601,819	204,619	397,201	(11,033)	(74)	(10,959)	-2.7%
Nov	623,208	208,151	415,056	608,064	206,742	401,322	(15,144)	(1,410)	(13,734)	-3.3%
Dec	689,513	230,297	459,216	676,034	229,852	446,182	(13,479)	(446)	(13,033)	-2.8%
Total	7,854,281	2,623,330	5,230,951	7,718,081	2,624,148	5,093,934	(136,200)	818	(137,018)	-2.6%

5. Other forecasted changes totaling a net \$1.0 million cost decrease include updates to Schiller 5 and Newington generation, congestion & losses assumptions, ISO ancillaries and expenses, RPS and RGGI expenses, and capacity costs. Note that an error in the sales amount used to calculate REC obligations in the September filing has been corrected, and the sales amount used to calculate REC obligations in this filing agrees with the 5,094 GWh of forecasted retail sales in RAB-1, page 1.

**D. Other Cost Changes (\$ 14.6 million costs decrease)**

6. All other actual and forecasted costs decreased by \$ 14.6 million. The decrease in other actual and forecasted costs was primarily due to lower F/H O&M costs (\$4.6 million), lower depreciation expense (\$4.8 million) and lower return on Rate Base (\$2.1million). The O&M decrease results from the removal of ammonia costs which are included in coal fuel expense (the September, 2011 filing had included ammonia costs twice, once in the coal fuel expense and again as part of the O&M). The decrease in depreciation is due to a periodic update of generation unit service lives. The latest actual return on rate base was used in the update resulting in lower return costs. The decrease of the forecasted expense changes noted in items 1-5 above totaled \$28.4 million plus the other cost changes of \$14.6 million resulted in a total expense decrease of \$43.0 million.

**E. Revenue Changes (\$ 17.5 million decrease)**

7. The updated ES revenues for 2011 and 2012 decreased by \$17.5 million due to lower sales caused by a lower sales forecast and additional customer migration. The updated 2011 sales are lower by 85 GWH and 2012 sales are lower by 137 GWH.

1	PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE			
2	2012 ENERGY SERVICE RATE CALCULATION			
3	(Dollars in 000's)			
4				
5				
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7				
8				
9				
10	Summary of Forecasted Energy Service			
11	Cost For January 2012 Through December 2012	TOTAL COST	Cents per KWH	Reference
12				
13	Fossil energy costs	\$ 94,637	\$ 1.86	Attachment RAB-2, page 2
14	F/H O&M, depreciation & taxes	122,562	2.41	Attachment RAB-2, page 2
15	Return on rate base	40,552	0.80	Attachment RAB-2, page 2
16	ISO-NE ancillary	3,805	0.07	Attachment RAB-2, page 2
17	Capacity	10,552	0.21	Attachment RAB-2, page 2
18	NH RPS	15,164	0.30	Attachment RAB-2, page 2
19	RGGI costs	2,655	0.05	Attachment RAB-2, page 2
20	Vermont Yankee	2,103	0.04	Attachment RAB-2, page 2
21	IPP costs (1)	22,799	0.45	Attachment RAB-2, page 2
22	Purchases and sales	85,864	1.69	Attachment RAB-2, page 2
23	Return on ES Deferral	(7)	(0.00)	Attachment RAB-2, page 2
24				
25	Total Forecasted Energy Service Cost	\$ 400,687	\$ 7.87	
26				
27	2011 ES Over/Under Recovery	2,155	0.04	Attachment RAB-3, page 1
28				
29	Net Forecasted Energy Service Cost	\$ 402,843		
30				
31	Forecasted Retail MWH Sales	5,093,934	7.90	
32				
33				
34	Forecasted Energy Service Rate -			
35	cents Per KWH (line 29 / Line 31)	\$ 7.90		

36 (1) The IPP costs represent the forecasted market value of IPP generation.

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2012 ENERGY SERVICE RATE CALCULATION  
(Dollars in 000's)

	January 2012 Estimate	February 2012 Estimate	March 2012 Estimate	April 2012 Estimate	May 2012 Estimate	June 2012 Estimate	Reference
<b>Energy Service Cost</b>							
Fossil energy costs	\$ 16,975	\$ 14,604	\$ 8,472	\$ 138	\$ 647	\$ 1,059	RAB-2, P3
F/H O&M, depreciation & taxes	10,173	8,991	9,594	12,051	9,756	10,184	RAB-2, P5
Return on rate base	3,489	3,466	3,419	3,381	3,357	3,360	RAB-2, P6
ISO-NE ancillary (inc. Congestion and Loss Adj.)	666	563	331	125	99	102	RAB-2, P3
Capacity	953	953	953	1,017	1,017	836	RAB-2, P3
NH RPS	1,389	1,256	1,254	1,148	1,155	1,242	RAB-2, P3
RGGI costs	459	419	226	-	-	7	RAB-2, P3
Vermont Yankee	716	671	716	-	-	-	RAB-2, P3
IPP costs (1)	2,810	2,400	2,118	1,772	1,588	1,415	RAB-2, P4
Purchases and sales	77	698	5,849	12,598	12,095	14,110	RAB-2, P3
Return on ES Deferral	2	2	2	3	4	2	
<b>Total Energy Service Cost</b>	<b>\$ 37,708</b>	<b>\$ 34,022</b>	<b>\$ 32,933</b>	<b>\$ 32,233</b>	<b>\$ 29,720</b>	<b>\$ 32,317</b>	
Forecasted Retail MWH Sales	466,483	421,889	421,234	385,576	388,084	417,308	
Energy Service Cost - cents per kwh	8.08	8.06	7.82	8.36	7.66	7.74	

(1) The IPP costs represent the forecasted market value of IPP generation.

Amounts shown above may not add due to rounding.

	PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE								
	2012 ENERGY SERVICE RATE CALCULATION								
	(Dollars in 000's)								
	July	August	September	October	November	December			
	2012	2012	2012	2012	2012	2012			
	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Total	Reference	
10 <b>Energy Service Cost</b>									
12 Fossil energy costs	\$ 10,023	\$ 14,900	\$ 589	\$ 647	\$ 10,989	\$ 15,594	\$ 94,637	RAB-2, P3	
13 F/H O&M, depreciation & taxes	10,458	10,390	11,510	10,898	9,297	9,259	122,562	RAB-2, P5	
14 Return on rate base	3,358	3,348	3,344	3,341	3,343	3,346	40,552	RAB-2, P6	
15 ISO-NE ancillary (inc. Congestion and Loss Adj.)	435	431	82	90	339	542	3,805	RAB-2, P3	
16 Capacity	836	836	836	771	773	773	10,552	RAB-2, P3	
17 NH RPS	1,429	1,382	1,203	1,182	1,195	1,328	15,164	RAB-2, P3	
18 RGGI costs	400	400	-	-	307	439	2,655	RAB-2, P3	
19 Vermont Yankee	-	-	-	-	-	-	2,103	RAB-2, P3	
20 IPP costs (1)	1,716	1,691	1,352	1,695	1,865	2,378	22,799	RAB-2, P4	
21 Purchases and sales	4,232	3,534	14,463	13,783	3,336	1,089	85,864	RAB-2, P3	
22 Return on ES Deferral	(2)	(6)	(5)	(3)	(3)	(3)	(7)		
24 Total Energy Service Cost	\$ 32,885	\$ 36,905	\$ 33,375	\$ 32,405	\$ 31,440	\$ 34,745	\$ 400,687		
26 Forecasted Retail MWH Sales	480,185	464,249	404,219	397,201	401,322	446,182	5,093,934		
28 Energy Service Cost - cents per kwh	6.85	7.95	8.26	8.16	7.83	7.79	7.87		

(1) The IPP costs represent the forecasted market value of IPP generation.

Amounts shown above may not add due to rounding.

PUBLIC SERVICE RATE COMPANY OF NEW HAMPSHIRE  
2012 ENERGY SERVICE RATE CALCULATION

PSNH Generation (GWh) and Expense (\$000)  
IPP's Priced at Market Rate

		Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Total	
1															
2	Hydro:	Energy	31,468	26,462	35,094	39,74	37,08	27,954	21,994	19,476	15,922	23,576	32,825	31,697	343,288
3															
4	Coal:	Energy	341,851	321,213	189,606	0,000	0,000	0,000	287,103	286,630	0,000	0,000	251,098	336,348	2,013,848
5		Energy Expense	\$ 14,178	13,325	7,824	-	-	-	7,053	12,000	-	-	10,363	13,939	78,682
6															
7	Wood:	Energy	28,633	26,786	28,633	6,119	28,633	26,056	26,925	26,925	26,056	28,633	27,710	28,633	309,741
8		Energy Expense	\$ 1,638	1,533	1,638	350	1,638	1,491	1,541	1,541	1,491	1,638	1,586	1,638	17,723
9		Revenue Credit	\$ (991)	(927)	(991)	(212)	(991)	(902)	(932)	(932)	(902)	(991)	(959)	(991)	(10,721)
10															
11	Nuclear:	Energy	15,349	14,379	15,334	0	0	0	0	0	0	0	0	0	45,062
12		Energy Expense	\$ 716	671	716	-	-	-	-	-	-	-	-	-	2,103
13															
14	Newington:	Energy	29,016	9,672	0,000	0,000	0,000	9,068	45,338	44,129	0,000	0,000	0,000	13,904	151,125
15		Energy Expense	\$ 2,150	674	-	-	-	470	2,362	2,290	-	-	-	1,008	8,953
16															
17	IPPs:	Energy	45,855	40,985	47,782	43,098	38,312	34,862	37,739	36,919	33,525	39,365	41,851	43,963	484,255
18		Energy Expense	\$ 2,634	2,224	1,942	1,596	1,412	1,325	1,626	1,601	1,262	1,555	1,726	2,239	21,142
19		ICAP	\$ 176	176	176	176	176	90	90	90	90	140	139	139	1,657
20															
21	Peak Purchase:	Energy	25,540	29,266	79,275	176,101	174,391	196,917	46,494	36,761	187,622	186,591	45,506	29,823	1,214,288
22		Expense	\$ 1,589	1,791	3,833	7,534	7,483	8,837	2,380	1,856	8,476	8,413	2,231	1,705	56,129
23															
24	Known Purchases	Energy	5,570	7,086	6,016	5,997	4,601	3,342	3,176	2,959	4,506	6,340	5,277	7,325	62,193
25		Expense	\$ 297	372	316	315	242	175	167	155	237	333	277	385	3,270
26															
27	Offpeak Purchase:	Energy	7,760	4,230	43,621	136,537	127,227	142,938	43,600	43,718	159,669	135,376	21,165	8,771	874,613
28		Expense	\$ 497	278	1,703	4,749	4,371	5,097	1,856	1,808	5,751	5,037	869	508	32,525
29															
30	Surplus Energy Sales	Energy	(37,922)	(34,100)	(0,073)	0,000	0,000	0,000	(4,765)	(6,759)	0,000	0,000	(1,193)	(28,803)	(113,616)
31		(Credit)	\$ (2,307)	(1,743)	(2)	0	0	0	(171)	(285)	0	0	(41)	(1,509)	(6,059)
32															
33	Congestion and Loss Adjustment		\$ 441	362	109	(93)	(83)	(100)	198	203	(113)	(90)	157	335	1,327
34															
35	Total Energy GWH		493,120	445,979	445,287	407,592	410,244	441,136	507,604	490,758	427,300	419,881	424,238	471,659	5,384,797
36	Total Energy Expense		\$ 21,020	18,735	17,263	14,415	14,248	16,484	16,169	20,328	16,292	16,035	16,347	19,396	206,731
37															
38															
39	ISO-NE Ancillary		\$ 225	201	221	218	182	202	236	227	195	180	183	207	2,477
40	NH RPS		\$ 1,389	1,256	1,254	1,148	1,155	1,242	1,429	1,382	1,203	1,182	1,195	1,328	15,164
41	RGGI Costs		\$ 459	419	226	0	0	7	400	400	0	0	307	439	2,655
42															
43	Capacity (sold)/bought MW-mo		265	265	265	283	283	283	283	283	283	261	262	262	3,277
44	Capacity (sold)/bought Cost (\$000)		\$ 953	953	953	1,017	1,017	836	836	836	836	771	773	773	10,552

Amounts shown above may not add due to rounding.



PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2012 ENERGY SERVICE RATE CALCULATION

1 **Forecasted PSNH IPP Market Value - January - December 2012**

2	3	IPP Energy at					
		IPP	Mkt Value	Capacity	ICAP Value	ICAP	Total
5	Month	GWh	(\$000)	MW	\$/kw-mo	(\$000)	(\$000)
6	January	45.855	2,634	48.8	3.60	176	2,810
7	February	40.985	2,224	48.8	3.60	176	2,400
8	March	47.782	1,942	48.8	3.60	176	2,118
9	April	43.098	1,596	48.8	3.60	176	1,772
10	May	38.312	1,412	48.8	3.60	176	1,588
11	June	34.862	1,325	30.5	2.95	90	1,415
12	July	37.739	1,626	30.5	2.95	90	1,716
13	August	36.919	1,601	30.5	2.95	90	1,691
14	September	33.525	1,262	30.5	2.95	90	1,352
15	October	39.365	1,555	47.6	2.95	140	1,695
16	November	41.851	1,726	47.1	2.95	139	1,865
17	December	43.963	2,239	47.1	2.95	139	2,378
18	Total	484.255	21,142			1,657	22,799

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2012 ENERGY SERVICE RATE CALCULATION  
Fossil / Hydro O&M, Depreciation & Taxes Detail  
(Dollars in 000's)

	January 2012	February 2012	March 2012	April 2012	May 2012	June 2012	July 2012	August 2012	September 2012	October 2012	November 2012	December 2012	Total
<u>11 Fossil / Hydro O&amp;M, Depr. &amp; Taxes</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	
13 F/H Operation & Maintenance Cost	\$ 7,609	\$ 6,448	\$ 6,989	\$ 9,343	\$ 7,042	\$ 7,469	\$ 7,741	\$ 7,673	\$ 8,716	\$ 8,194	\$ 6,579	\$ 6,553	\$ 90,356
14 F/H Depreciation Cost	1,477	1,477	1,477	1,478	1,479	1,479	1,480	1,482	1,489	1,490	1,499	1,501	17,807
15 F/H Property Taxes	818	818	818	1,015	1,015	1,015	1,015	1,015	1,015	1,015	1,015	1,015	11,587
16 F/H Payroll Taxes	217	196	258	162	167	168	168	166	236	144	148	135	2,165
17 Amort. of Asset Retirement Obligation	52	52	52	53	53	53	54	54	54	55	55	55	647
19 Total F/H O&M, Depr. and Taxes	\$ 10,173	\$ 8,991	\$ 9,594	\$ 12,051	\$ 9,756	\$ 10,184	\$ 10,458	\$ 10,390	\$ 11,510	\$ 10,898	\$ 9,297	\$ 9,259	\$ 122,562

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2012 ENERGY SERVICE RATE CALCULATION  
FOSSIL/HYDRO RETURN ON RATE BASE  
(Dollars in 000's)

	January 2012	February 2012	March 2012	April 2012	May 2012	June 2012	July 2012	August 2012	September 2012	October 2012	November 2012	December 2012	Total
<b>Return on Rate Base</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	
<b>Rate base</b>													
Net Plant	303,842	302,176	300,642	299,221	297,607	296,527	295,988	297,276	296,516	298,402	297,401	296,614	
Working Capital Allow. (45 days of O&M)	11,140	11,140	11,140	11,140	11,140	11,140	11,140	11,140	11,140	11,140	11,140	11,140	
Fossil Fuel Inventory	60,698	57,571	54,289	54,310	54,331	52,595	50,868	50,905	50,982	51,097	51,212	51,375	
Mat'ls and Supplies	54,826	54,957	55,278	55,654	56,202	57,203	57,443	57,739	58,488	58,751	59,588	61,751	
Prepayments	2,575	2,575	2,575	2,575	2,575	2,575	2,575	2,575	2,575	2,575	2,575	2,575	
Deferred Taxes	(29,707)	(29,666)	(29,228)	(30,874)	(31,277)	(35,427)	(35,623)	(36,006)	(35,994)	(36,793)	(36,715)	(35,571)	
Other Regulatory Obligations	(10,377)	(10,948)	(12,279)	(12,853)	(13,431)	(4,901)	(5,565)	(6,193)	(7,865)	(8,378)	(8,895)	(10,389)	
<b>Total Rate Base (L15 thru L22)</b>	<b>392,997</b>	<b>387,805</b>	<b>382,416</b>	<b>379,172</b>	<b>377,146</b>	<b>379,712</b>	<b>376,826</b>	<b>377,436</b>	<b>375,841</b>	<b>376,794</b>	<b>376,306</b>	<b>377,496</b>	
<b>Average Rate Base ( prev + curr month)</b>	<b>392,997</b>	<b>390,401</b>	<b>385,110</b>	<b>380,794</b>	<b>378,159</b>	<b>378,429</b>	<b>378,269</b>	<b>377,131</b>	<b>376,638</b>	<b>376,317</b>	<b>376,550</b>	<b>376,901</b>	
<b>x Return</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	<b>0.8878%</b>	
<b>Return (L25 x L26)</b>	<b>\$ 3,489</b>	<b>\$ 3,466</b>	<b>\$ 3,419</b>	<b>\$ 3,381</b>	<b>\$ 3,357</b>	<b>\$ 3,360</b>	<b>\$ 3,358</b>	<b>\$ 3,348</b>	<b>\$ 3,344</b>	<b>\$ 3,341</b>	<b>\$ 3,343</b>	<b>\$ 3,346</b>	<b>\$ 40,552</b>

Amounts shown above may not add due to rounding.

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2011 ENERGY SERVICE RATE CALCULATION  
(Dollars in 000s)

10 Summary of Forecasted and Actual Energy Service			
11 Cost For January 2011 Through December 2011	TOTAL COST	Cents per KWH	Reference
12			
13 Fossil energy costs	\$ 117,637	2.30	Attachment RAB-4, page 2
14 F/H O&M, depreciation & taxes	136,472	2.67	Attachment RAB-4, page 2
15 Return on rate base	42,326	0.83	Attachment RAB-4, page 2
16 ISO-NE ancillary	1,220	0.02	Attachment RAB-4, page 2
17 Capacity	10,521	0.21	Attachment RAB-4, page 2
18 NH RPS	12,309	0.24	Attachment RAB-4, page 2
19 RGGI costs	5,729	0.11	Attachment RAB-4, page 2
20 Vermont Yankee	7,189	0.14	Attachment RAB-4, page 2
21 IPP costs (1)	25,824	0.51	Attachment RAB-4, page 2
22 Purchases and sales	85,343	1.67	Attachment RAB-4, page 2
23 Return on ES Deferral	225	0.00	Attachment RAB-4, page 2
24 Merrimack projected RPC insurance proceeds	(4,400)	(0.09)	Attachment RAB-4, page 2
25 2010 Actual ES underrecovery	10,366	0.20	Attachment RAB-4, page 2
26			
27 Total Updated Energy Service Cost	\$ 450,760	8.82	
28 Total Updated Revenue	448,605		
29 2011 ES (Over)/Under Recovery	2,155		

(1) The IPP costs represent the forecasted market value of IPP generation.

Amounts shown above may not add due to rounding.

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2011 ENERGY SERVICE RATE CALCULATION  
(Dollars in 000s)

	January 2011 Actual	February 2011 Actual	March 2011 Actual	April 2011 Actual	May 2011 Actual	June 2011 Actual	Reference
<b>Energy Service Cost</b>							
Fossil energy costs (1)	\$ 19,112	\$ 14,554	\$ 13,178	\$ 7,744	\$ 5,087	\$ 9,294	RAB-4, P3
F/H O&M, depreciation & taxes	9,386	8,886	10,811	14,989	13,338	10,049	RAB-4, P5
Return on rate base	3,627	3,627	3,468	3,564	3,564	3,599	RAB-4, P6
ISO-NE ancillary (inc. Congestion and Loss Adj.)	(561)	184	(798)	165	245	245	RAB-4, P3
Capacity	1,200	1,085	1,049	257	601	962	RAB-4, P3
NH RPS	873	864	869	869	869	901	RAB-4, P3
RGGI costs	720	267	431	354	1,360	373	RAB-4, P3
Vermont Yankee	688	623	648	668	655	642	RAB-4, P3
IPP costs (2)	4,115	2,090	2,341	2,638	2,232	1,581	RAB-4, P4
Purchases and sales (3)	495	2,505	3,655	5,670	11,938	6,981	RAB-4, P3
Return on ES Deferral	22	18	13	15	24	27	
Merrimack projected RPC insurance proceeds	-	-	-	-	-	-	
2010 Actual ES underrecovery	10,366	-	-	-	-	-	
<b>Total Energy Service Cost</b>	<b>\$ 50,043</b>	<b>\$ 34,703</b>	<b>\$ 35,666</b>	<b>\$ 36,933</b>	<b>\$ 39,913</b>	<b>\$ 34,654</b>	
<b>Total Energy Service Revenue</b>	<b>43,283</b>	<b>37,414</b>	<b>38,054</b>	<b>32,084</b>	<b>32,551</b>	<b>36,407</b>	
<b>ES Under/(Over) Recovery</b>	<b>6,760</b>	<b>(2,711)</b>	<b>(2,388)</b>	<b>4,849</b>	<b>7,362</b>	<b>(1,753)</b>	
<b>Retail MWH Sales</b>	<b>499,353</b>	<b>431,507</b>	<b>438,899</b>	<b>370,023</b>	<b>375,429</b>	<b>419,953</b>	

- (1) February includes a credit of \$1.4M for resale of 30,000 tons of coal.  
(2) The IPP costs represent the forecasted market value of IPP generation.  
(3) June includes credit of \$150.4 for Seabrook related activity.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2011 ENERGY SERVICE RATE CALCULATION  
(Dollars in 000s)

	July 2011 Actual	August 2011 Actual	September 2011 Actual	October 2011 Actual	November 2011 Actual	December 2011 Estimate	Total	Reference
10 <u>Energy Service Cost</u>								
12 Fossil energy costs (1)	\$ 9,379	\$ 8,674	\$ 1,565	\$ 5,252	\$ 8,970	\$ 14,828	\$ 117,637	RAB-4, P3
13 F/H O&M, depreciation & taxes	10,506	9,633	9,777	13,613	14,444	11,041	136,472	RAB-4, P5
14 Return on rate base	3,553	3,553	3,549	3,380	3,389	3,451	42,326	RAB-4, P6
15 ISO-NE ancillary (inc. Congestion and Loss Adj.)	41	(88)	178	181	897	531	1,220	RAB-4, P3
16 Capacity	795	886	917	965	851	953	10,521	RAB-4, P3
17 NH RPS	1,048	901	2,081	1,032	1,032	970	12,309	RAB-4, P3
18 RGGI costs	441	339	228	389	471	356	5,729	RAB-4, P3
19 Vermont Yankee	643	639	555	149	586	693	7,189	RAB-4, P3
20 IPP costs (2)	1,597	1,061	1,804	2,077	1,983	2,305	25,824	RAB-4, P4
21 Purchases and sales (3)	9,147	11,937	13,333	11,010	7,472	1,200	85,343	RAB-4, P3
22 Return on ES Deferral	19	10	7	14	28	28	225	
23 Merrimack projected RPC insurance proceeds	-	-	-	-	-	(4,400)	(4,400)	
24 2010 Actual ES underrecovery	-	-	-	-	-	-	10,366	
26 Total Energy Service Cost	\$ 37,169	\$ 37,545	\$ 33,993	\$ 38,062	\$ 40,123	\$ 31,956	\$ 450,760	
28 Total Energy Service Revenue	44,709	41,525	35,188	32,387	35,091	39,912	448,605	
30 ES Under/(Over) Recovery	(7,540)	(3,980)	(1,195)	5,675	5,032	(7,956)	2,155	
32 Retail MWH Sales	503,355	467,473	396,045	364,170	394,705	448,956	5,109,868	

- (1) July includes a credit of \$5.2M for resale of 120,000 tons of coal.  
(2) The IPP costs represent the forecasted market value of IPP generation.  
(3) September includes credit of \$86.6 for Seabrook related activity.

PUBLIC SERVICE RATE COMPANY OF NEW HAMPSHIRE  
2011 ENERGY SERVICE RATE CALCULATION

PSNH Generation (GWh) and Expense (\$000)  
IPP's Priced at Market Rate

			Jan-11	Feb-11	Mar-11	Apr-11	May-11	Actual Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Estimate Dec-11	Total
1															
2	Hydro:	Energy	31,741	24,119	40,788	42,160	43,359	28,186	13,543	20,186	25,868	32,744	29,266	31,697	363,657
3															
4	Coal:	Energy	331,457	326,273	280,045	185,219	76,663	209,390	264,146	155,851	54,428	45,128	153,546	344,472	2,426,618
5		Energy Expense	\$ 14,253	12,069	12,267	7,898	4,584	8,526	6,054	7,157	671	2,830	8,011	13,237	97,557
6															
7	Wood:	Energy	30,013	26,223	26,449	0,859	12,252	29,138	30,985	30,698	29,647	30,564	20,904	27,951	295,683
8		Energy Expense	\$ 1,546	1,294	1,350.0	49	390	1,358	1,380	1,398	1,380	1,482	1,013	1,599	14,239
9		Revenue Credit	\$ (749)	(694)	(698)	(327)	50	(737)	(763)	(759)	(744)	(757)	(617)	(957)	(7,752)
10															
11	Nuclear:	Energy	15,523	13,875	15,487	14,959	14,980	14,600	14,687	14,579	12,684	3,146	13,195	15,349	163,064
12		Energy Expense	\$ 688	623	648	668	655	642	643	639	555	149	586	693	7,189
13															
11	IC/Jets	Energy	0,174	0,033	(0,056)	0,080	0,042	(0,047)	0,200	0,041	(0,013)	(0,027)	(0,059)	0,000	0,368
12		Energy Expense	\$ 55	16	5	29	11	1	60	23	10	10	(1)	-	219
13															
14	Newington:	Energy	43,646	14,348	1,433	0,000	0,000	0,781	25,890	8,731	3,596	21,517	7,415	13,904	141,261
15		Energy Expense	\$ 4,007	1,869	254	95	52	146	2,648	855	248	1,687	564	949	13,374
16															
17	IPP's:	Energy	53,858	35,862	51,296	55,585	48,494	35,174	25,947	24,469	40,727	47,262	49,769	43,963	512,406
18		Energy Expense	\$ 3,853	1,885	2,136	2,432	2,026	1,487	1,502	961	1,700	1,907	1,813	2,129	23,831
19		ICAP	\$ 262	205	205	206	206	94	95	100	104	170	170	176	1,993
20															
21	Peak Purchase:	Energy	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	5,288	5,288
22		Expense	\$ -	-	-	-	-	-	-	-	-	-	-	332	332
23															
24	Known Purchases	Energy	55,906	43,997	51,050	86,658	184,299	52,734	41,575	74,549	137,013	127,517	83,257	40,925	979,480
25		Expense	\$ 3,964	4,009	4,466	4,645	10,839	3,732	3,073	4,992	7,350	7,174	5,815	3,291	63,350
26															
27	Offpeak Purchase:	Energy	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	5,514	5,514
28		Expense	\$ 0	0	0	0	0	0	0	0	0	0	0	308	308
29															
30	ISO-NE Net	Energy	(42,994)	(28,000)	(9,809)	25,133	31,859	76,918	220,376	165,238	155,346	95,894	68,925	(54,471)	704,415
31		(Credit)	\$ (3,469)	(1,504)	(811)	1,025	1,099	3,249	6,074	6,945	5,983	3,836	1,657	(2,731)	21,353
32															
33	Congestion and Loss Adjustment (1)		\$ 0	0	0	0	0	0	0	0	0	0	0	316	316
34															
35	Total Energy GWH		519,324	456,730	456,683	410,653	411,948	446,874	637,349	494,342	459,296	403,745	426,218	474,592	5,587,754
36	Total Energy Expense	\$	24,410	19,772	19,822	16,720	19,912	18,498	20,766	22,311	17,257	18,488	19,011	19,342	236,308
37															
38															
39	ISO-NE Ancillary	\$	(561)	184	(798)	165	245	245	41	(88)	178	181	897	215	904
40	NH RPS	\$	873	864	869	869	869	901	1,048	901	2,081	1,032	1,032	970	12,309
41	RGGI Costs	\$	720	267	431	354	1,360	373	441	339	228	389	471	356	5,729
42															
43	Capacity (sold)/bought MW		262	262	174	174	174	268	268	268	285	262	257	265	2,919
44	Capacity (sold)/bought Cost (\$000)	\$	1,200	1,085	1,049	257	601	962	795	886	917	965	851	953	10,521

Amounts shown above may not add due to rounding.

(1) Congestion and Loss Adjustment actuals are included in ISO-NE Ancillary.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2011 ENERGY SERVICE RATE CALCULATION

1 **Forecasted PSNH IPP Market Value - December 2011**  
2  
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4 Month	IPP Energy at		Capacity MW	ICAP Value \$/kw-mo	ICAP (\$000)	Total (\$000)	Total \$/MWh
	IPP GWh	Mkt Value (\$000)					
9 December	43.963	2,129	48.8	3.60	176	2,305	52.44
10 Total	43.963	2,129			176	2,305	52.44

Amounts shown above may not add due to rounding.



PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2011 ENERGY SERVICE RATE CALCULATION  
Fossil / Hydro O&M, Depreciation & Taxes Detail  
(Dollars in 000s)

	January 2011	February 2011	March 2011	April 2011	May 2011	June 2011	July 2011	August 2011	September 2011	October 2011	November 2011	December 2011	Total
11 Fossil / Hydro O&M, Depr. & Taxes	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Estimate	
13 F/H Operation & Maintenance Cost	\$ 6,646	\$ 6,098	\$ 8,025	\$ 12,102	\$ 10,426	\$ 7,022	\$ 7,593	\$ 6,730	\$ 6,871	\$ 10,678	\$ 11,493	\$ 8,051	\$ 101,734
14 F/H Depreciation Cost	1,812	1,814	1,841	1,839	1,851	1,851	1,851	1,852	1,851	1,889	1,900	1,891	22,242
15 F/H Property Taxes	666	744	661	862	847	884	847	847	847	863	830	915	9,813
16 F/H Payroll Taxes	213	182	236	137	165	243	165	154	158	132	170	133	2,088
17 Amort. of Asset Retirement Obligation	48	48	48	49	49	49	50	50	50	51	51	51	594
19 Total F/H O&M, Depr. and Taxes	\$ 9,386	\$ 8,886	\$ 10,811	\$ 14,989	\$ 13,338	\$ 10,049	\$ 10,506	\$ 9,633	\$ 9,777	\$ 13,613	\$ 14,444	\$ 11,041	\$ 136,472

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2011 ENERGY SERVICE RATE CALCULATION  
FOSSIL/HYDRO RETURN ON RATE BASE  
(Dollars in 000s)

	January 2011 Actual	February 2011 Actual	March 2011 Actual	April 2011 Actual	May 2011 Actual	June 2011 Actual	July 2011 Actual	August 2011 Actual	September 2011 Actual	October 2011 Actual	November 2011 Actual	December 2011 Estimate	Total
<b>Return on Rate Base</b>													
<b>Rate base</b>													
Net Plant	301,381	301,381	310,157	310,157	310,157	312,102	312,102	312,102	307,249	308,249	309,249	313,311	
Working Capital Allow. (45 days of O&M)	12,543	12,543	12,543	12,543	12,543	12,543	12,543	12,543	12,543	12,543	12,543	12,543	
Fossil Fuel Inventory	57,962	57,962	41,641	41,641	41,641	48,402	48,402	48,402	48,421	48,421	48,421	59,442	
Materials and Supplies	51,799	51,799	53,325	53,325	53,325	49,058	49,058	49,058	49,575	49,575	49,575	54,589	
Prepayments	2,563	2,563	2,235	2,235	2,235	1,893	1,893	1,893	1,034	1,034	1,034	2,575	
Deferred Taxes	(25,536)	(25,536)	(26,090)	(26,090)	(26,090)	(34,619)	(34,619)	(34,619)	(25,054)	(25,054)	(25,054)	(35,401)	
Other Regulatory Obligations	(12,303)	(12,303)	(15,050)	(15,050)	(15,050)	(8,223)	(8,223)	(8,223)	(13,524)	(13,524)	(13,524)	(11,792)	
Total Rate Base (L15 thru L22)	388,409	388,409	378,761	378,761	378,761	381,156	381,156	381,156	380,244	381,244	382,244	395,267	
Average Rate Base ( prev + curr month)	388,342	388,409	383,585	378,761	378,761	379,958	381,156	381,156	380,700	380,744	381,744	388,755	
x Return	0.9339%	0.9339%	0.9339%	0.9411%	0.9411%	0.9411%	0.9322%	0.9322%	0.9322%	0.8878%	0.8878%	0.8878%	
Return (L25 x L26) (1)	\$ 3,627	\$ 3,627	\$ 3,468	\$ 3,564	\$ 3,564	\$ 3,599	\$ 3,553	\$ 3,553	\$ 3,549	\$ 3,380	\$ 3,389	\$ 3,451	\$ 42,326

(1) Line 27 includes quarterly true-up adjustments.

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE 2012 ENERGY SERVICE RATE CALCULATION MERRIMACK SCRUBBER IMPACT (Dollars in 000's)		
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11	Summary of Forecasted Energy Service	Merrimack Scrubber
12	Cost For January 2012 Through December 2012	Total cost
13		
14	Merrimack Scrubber O&M, Fuel and Avoided SO2 cost	\$ 6,671
15	Merrimack Scrubber Depreciation Expense	13,761
16	Merrimack Scrubber Property Tax Expense	267
17	Merrimack Scrubber Return on Rate Base	34,801
18		
19	Total Forecasted Merrimack Scrubber Cost	\$ 55,500
20		
21	Amortization of 2011 Merrimack Scrubber Under Recovery	4,367
22		
23	Net Forecasted Merrimack Scrubber Cost	\$ 59,867
24		
25	Forecasted Retail MWH Sales	5,093,934
26		
27		
28	Forecasted Energy Service Merrimack Scrubber Rate Impact	
29	cents Per KWH (line 23 / Line 25)	1.18
30		
31	Energy Service Rate as filed on 12/14/11 without MK Scrubber	7.90
32		
33	Total Forecasted Energy Service Rate (line 29 + Line 31)	9.08
34		
35		
36	Proposed three year recovery and amortization of the	
37	2011 Merrimack Scrubber Underrecovery	
38		
39	2011 Merrimack Scrubber Under Recovery	\$ 13,101
40		
41	Amortized over 3 years 2012 - 2014	3
42		
43	2012 Amortization of Merrimack Scrubber	
44	under recovery from 2011 (Line 39 / Line 41)	\$ 4,367

Reference

Attachment RAB-5, page 2

Attachment RAB-5, page 2

Attachment RAB-5, page 2

Attachment RAB-5, page 3

Line 44 below

Attachment RAB-6, page 1

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2012 ENERGY SERVICE RATE CALCULATION  
MERRIMACK SCRUBBER O&M, DEPRECIATION AND PROPERTY TAXES  
(Dollars in 000's)

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	January 2012	February 2012	March 2012	April 2012	May 2012	June 2012	July 2012	August 2012	September 2012	October 2012	November 2012	December 2012	Total
	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	
<b>Merrimack Scrubber O&amp;M, Depr. &amp; Taxes</b>													
Merrimack Scrubber Operation & Maintenance Cost	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 340	\$ 340	\$ 4,100
Merrimack Scrubber Fuel related Cost	928	844	512	-	-	-	749	742	-	-	709	877	5,361
Merrimack Scrubber Avoided SO2 Cost	(461)	(432)	(252)	-	-	-	(407)	(402)	-	-	(378)	(458)	(2,780)
Merrimack Scrubber Depreciation Cost	1,070	1,070	1,070	1,099	1,099	1,099	1,203	1,203	1,203	1,215	1,215	1,215	13,761
Merrimack Scrubber Property Taxes (1)	17	17	17	24	24	24	24	24	24	24	24	24	267
<b>Total Merrimack Scrubber O&amp;M, Fuel, SO2, Depr. and Taxes</b>	<b>\$ 1,896</b>	<b>\$ 1,841</b>	<b>\$ 1,689</b>	<b>\$ 1,465</b>	<b>\$ 1,465</b>	<b>\$ 1,465</b>	<b>\$ 1,911</b>	<b>\$ 1,909</b>	<b>\$ 1,569</b>	<b>\$ 1,581</b>	<b>\$ 1,910</b>	<b>\$ 1,998</b>	<b>\$ 20,699</b>

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2012 ENERGY SERVICE RATE CALCULATION  
MERRIMACK SCRUBBER RETURN ON RATE BASE  
(Dollars in 000's)

	January 2012 Estimate	February 2012 Estimate	March 2012 Estimate	April 2012 Estimate	May 2012 Estimate	June 2012 Estimate	July 2012 Estimate	August 2012 Estimate	September 2012 Estimate	October 2012 Estimate	November 2012 Estimate	December 2012 Estimate	Total
<b>Merrimack Scrubber Return on Rate Base</b>													
<b>Rate base</b>													
Net Plant	\$ 349,288	\$ 348,218	\$ 356,348	\$ 355,249	\$ 354,150	\$ 385,351	\$ 384,148	\$ 382,945	\$ 383,742	\$ 382,527	\$ 381,312	\$ 383,097	
Working Capital Allow. (45 days of O&M)	505	505	505	505	505	505	505	505	505	505	505	505	
Deferred Taxes	(22,499)	(27,622)	(32,129)	(35,044)	(39,544)	(45,117)	(49,632)	(55,874)	(56,029)	(54,224)	(57,333)	(61,906)	
Total Rate Base (L15 thru L18)	327,294	321,101	324,724	320,710	315,111	340,739	335,021	327,576	328,218	328,808	324,484	321,696	
Average Rate Base (prev + curr month)	328,944	324,198	322,913	322,717	317,911	327,925	337,880	331,299	327,897	328,513	326,646	323,090	
x Return	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	
Merrimack Scrubber Return (L21 x L22)	\$ 2,920	\$ 2,878	\$ 2,867	\$ 2,865	\$ 2,822	\$ 2,911	\$ 3,000	\$ 2,941	\$ 2,911	\$ 2,917	\$ 2,900	\$ 2,868	\$ 34,801

Amounts shown above may not add due to rounding.

1	PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE		
2	2011 ENERGY SERVICE RATE CALCULATION		
3	MERRIMACK SCRUBBER IMPACT		
4	(Dollars in 000s)		
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11	Summary of Forecasted and Actual Energy Service	Merrimack Scrubber	
12	Cost For January 2011 Through December 2011	Total cost	Reference
13			
14	Merrimack Scrubber O&M, Fuel and Avoided SO2 cost	\$ 1,369	Attachment RAB-6, page 2
15	Merrimack Scrubber Depreciation Expense	3,100	Attachment RAB-6, page 2
16	Merrimack scrubber Property Tax Expense	51	Attachment RAB-6, page 2
17	Merrimack Scrubber Return on Rate Base	8,581	Attachment RAB-6, page 3
18			
19	2011 Merrimack Scrubber Under recovery	\$ 13,101	

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2011 ENERGY SERVICE RATE CALCULATION  
MERRIMACK SCRUBBER O&M, DEPRECIATION AND TAXES  
(Dollars in 000s)

	January 2011 Actual	February 2011 Actual	March 2011 Actual	April 2011 Actual	May 2011 Actual	June 2011 Actual	July 2011 Actual	August 2011 Actual	September 2011 Actual (1)	October 2011 Estimate	November 2011 Estimate	December 2011 Estimate	Total
<b>Merrimack Scrubber O&amp;M, Depr. &amp; Taxes</b>													
Merrimack Scrubber Operation & Maintenance Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150	\$ 150	\$ 300	\$ 600
Merrimack Scrubber Fuel Related Cost	-	-	-	-	-	-	-	-	-	230	400	864	1,494
Merrimack Scrubber Avoided SO2 cost	-	-	-	-	-	-	-	-	-	(140)	(140)	(445)	(725)
Merrimack Scrubber Depreciation Cost	-	-	-	-	-	-	-	-	100	1,000	1,000	1,000	3,100
Merrimack Scrubber Property Taxes (2)	-	-	-	-	-	-	-	-	-	17	17	17	51
<b>Total Merrimack Scrubber O&amp;M, Fuel, SO2, Depr. and Taxes</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 100</b>	<b>\$ 1,257</b>	<b>\$ 1,427</b>	<b>\$ 1,736</b>	<b>\$ 4,520</b>

(1) Reflect September 28, 29, & 30, 2011.

(2) Merrimack Scrubber related property tax impact represents the projection of the non-exempt portion of the project.

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
2011 ENERGY SERVICE RATE CALCULATION  
MERRIMACK SCRUBBER RETURN ON RATE BASE  
(Dollars in 000s)

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	January 2011 Actual	February 2011 Actual	March 2011 Actual	April 2011 Actual	May 2011 Actual	June 2011 Actual	July 2011 Actual	August 2011 Actual	September 2011 Estimate (1)	October 2011 Estimate	November 2011 Estimate	December 2011 Estimate	Total
<b>Merrimack Scrubber Return on Rate Base</b>													
<b>Rate base</b>													
Net Plant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 324,516	\$ 323,516	\$ 322,516	\$ 350,352	
Working Capital Allow. (45 days of O&M)	-	-	-	-	-	-	-	-	74	74	74	74	
Deferred Taxes	-	-	-	-	-	-	-	-	(15,843)	(15,843)	(15,843)	(19,833)	
Total Rate Base (L15 thru L18)	-	-	-	-	-	-	-	-	308,747	307,747	306,747	330,593	
Average Rate Base ( prev + curr month)	-	-	-	-	-	-	-	-	308,747	308,247	307,247	318,670	
x Return	0.9339%	0.9339%	0.9339%	0.9411%	0.9411%	0.9411%	0.9322%	0.9322%	0.9322%	0.8878%	0.8878%	0.8878%	
Merrimack Scrubber Return (L21 x L22)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 288	\$ 2,737	\$ 2,728	\$ 2,829	\$ 8,581

(1) The Merrimack Scrubber was declared in service effective on September 28, 2011, therefore, the September return was prorated to represent 3/30 for the month or 10% of the monthly return.

Amounts shown above may not add due to rounding.