

1	PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE		
2	2012 ENERGY SERVICE RATE CALCULATION		
3	MERRIMACK SCRUBBER IMPACT		
4	(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	Reference
13			
14	Merrimack Scrubber O&M, Fuel and Avoided SO2 cost	\$ 6,679	Attachment RAB-5, page 2
15	Merrimack Scrubber Depreciation Expense	13,761	Attachment RAB-5, page 2
16	Merrimack Scrubber Property Tax Expense	267	Attachment RAB-5, page 2
17	Merrimack Scrubber Return on Rate Base	36,539	Attachment RAB-5, page 3
18			
19	Total Forecasted Merrimack Scrubber Cost	\$ 57,246	
20			
21	Amortization of 2011 Merrimack Scrubber Under Recovery	4,520	Line 44 below
22			
23	Net Forecasted Merrimack Scrubber Cost	\$ 61,767	
24			
25	Forecasted Retail MWH Sales	5,230,952	
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 9/23/11 without MK Scrubber	8.39	
32			
33	Total Forecasted Energy Service Rate (line 29 + Line 31)	9.57	
34			
35			
36	Proposed three year recovery and amortization of the		
37	2011 Merrimack Scrubber Underrecovery		
38			
39	2011 Merrimack Scrubber Under Recovery	\$ 13,561	Attachment RAB-6, page 1
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)	\$ 4,520	

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	
Merrimack Scrubber O&M, Depr. & Taxes													
Merrimack Scrubber Operation & Maintenance Cost	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 342	\$ 340	\$ 340	\$ 4,100
Merrimack Scrubber Fuel related Cost	658	658	658	658	658	658	658	658	659	659	659	659	7,900
Merrimack Scrubber Avoided SO2 Cost	(648)	(606)	(589)	(358)	-	(358)	(587)	(587)	-	(370)	(570)	(648)	(5,321)
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
Total Merrimack Scrubber O&M, Fuel, SO2, Depr. and Taxes	\$ 1,439	\$ 1,481	\$ 1,498	\$ 1,765	\$ 2,123	\$ 1,765	\$ 1,640	\$ 1,640	\$ 2,228	\$ 1,870	\$ 1,668	\$ 1,590	\$ 20,707

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)

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8														
9		January	February	March	April	May	June	July	August	September	October	November	December	
10	Merrimack Scrubber	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	Total
11	Return on Rate Base	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	
12														
13														
14	Rate base													
15	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	
16														
17	Working Capital Allow. (45 days of O&M)	505	505	505	505	505	505	505	505	505	505	505	505	
18	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)	
19	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	
20														
21	Average Rate Base (prev + curr month)	328,906	324,198	322,913	322,717	317,911	327,925	337,880	331,299	327,897	328,513	326,646	323,090	
22	x Return	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	
23	Merrimack Scrubber Return (L21 x L22)	\$ 3,066	\$ 3,022	\$ 3,010	\$ 3,008	\$ 2,963	\$ 3,057	\$ 3,150	\$ 3,088	\$ 3,056	\$ 3,062	\$ 3,045	\$ 3,012	\$ 36,539

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

11 Summary of Forecasted and Actual Energy Service 12 Cost For January 2011 Through December 2011	Merrimack Scrubber Total cost	Reference
13		
14 Merrimack Scrubber O&M, Fuel and Avoided SO2 cost	\$ 1,450	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	8,960	Attachment RAB-6, page 3
18		
19 2011 Merrimack Scrubber Under recovery	\$ 13,561	

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)

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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 Actual (1)	October 2011 Estimate	November 2011 Estimate	December 2011 Estimate	Total
Merrimack Scrubber O&M, Depr. & Taxes													
Merrimack Scrubber Operation & Maintenance Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300	\$ 300	\$ 600	\$ 1,200
Merrimack Scrubber Fuel Related Cost	-	-	-	-	-	-	-	-	-	110	180	430	720
Merrimack Scrubber Avoided SO2 cost	-	-	-	-	-	-	-	-	-	(140)	(140)	(190)	(470)
Merrimack Scrubber Depreciation Cost	-	-	-	-	-	-	-	-	100	1,000	1,000	1,000	3,100
Merrimack Scrubber Property Taxes (2)	-	-	-	-	-	-	-	-	-	17	17	17	51
Total Merrimack Scrubber O&M, Fuel, SO2, Depr. and Taxes	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100	\$ 1,287	\$ 1,357	\$ 1,857	\$ 4,601

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)

	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
Merrimack Scrubber Return on Rate Base	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Estimate (1)	Estimate	Estimate	Estimate	
Rate base													
Net Plant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 324,516	\$ 323,516	\$ 322,516	\$ 350,352	
Working Capital Allow. (45 days of O&M)	-	-	-	-	-	-	-	-	148	148	148	148	
Deferred Taxes	-	-	-	-	-	-	-	-	(15,843)	(17,179)	(18,509)	(19,833)	
Total Rate Base (L15 thru L18)	-	-	-	-	-	-	-	-	308,821	306,485	304,155	330,667	
Average Rate Base (prev + curr month)	-	-	-	-	-	-	-	-	308,821	307,653	305,320	317,411	
x Return	0.9339%	0.9339%	0.9339%	0.9411%	0.9411%	0.9411%	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	0.9322%	
Merrimack Scrubber Return (L21 x L22)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 288	\$ 2,868	\$ 2,846	\$ 2,959	\$ 8,960

(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.

ATTACHMENT 3

**Affidavit of
Robert A. Baumann**

THE STATE OF NEW HAMPSHIRE
before the
PUBLIC UTILITIES COMMISSION

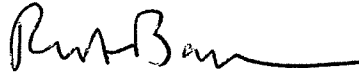
Docket No. DE _____

PSNH Clean Air Project Review

Affidavit of Robert A. Baumann

Being first duly sworn and put upon oath, I, Robert A. Baumann do hereby state:

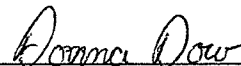
1. My name is Robert A. Baumann. My business address is 107 Selden Street, Berlin, Connecticut. I am Director, Revenue Regulation & Load Resources for Northeast Utilities Service Company (NUSCO). NUSCO provides centralized services to the Northeast Utilities (NU) operating subsidiaries, including Public Service Company of New Hampshire (PSNH), The Connecticut Light and Power Company, Yankee Gas Services Company and Western Massachusetts Electric Company.
2. As of January 1, 2012, the revenue requirements associated with PSNH's Scrubber Project will be approximately \$5 million to \$6 million per month, as shown on line 22 of Attachment RAB-1 attached hereto.
3. If recovery of scrubber costs does not commence on January 1, 2012, PSNH will be required to defer such costs for recovery through a future Energy Service rate.
4. Such deferral will not only require that the cumulative monthly deferred amounts be recovered, but also that carrying costs on the monthly deferral also be recovered through a future Energy Service rate.
5. The carrying cost on the monthly deferrals is shown on line 26 of Attachment RAB-1.
6. Based upon the data contained in PSNH's October 14, 2011 filing in Docket No. DE 11-215, the cost recovery impact of the Scrubber Project on PSNH's Energy Service rate commencing January 1, 2012 would be 1.18¢ per kWh, as shown on line 14 of Attachment RAB-1.



Robert A. Baumann

STATE OF CONNECTICUT }
COUNTY OF HARTFORD }

Subscribed and sworn to before me this 18th day of November, 2011.



DONNA DOW
NOTARY PUBLIC
STATE OF CONNECTICUT
MY COMMISSION EXPIRES 04/30/2014

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

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Energy Service Cost

ES Scrubber Impact - O&M, Fuel and Avoided SO2
ES Scrubber Impact - Return, Depreciation and Property Tax
Total ES Rate Scrubber Impact - c/kwh
Forecasted Retail MWH Sales
Scrubber O&M, Fuel and Avoided SO2 [line 11 x line 16]
Scrubber Return, Depreciation and Property Tax [line 12 x line 16]
Total Scrubber Impact [line 18 + line 20]
Cumulative ES deferral if recovery is delayed
ES Deferral carrying costs at prime rate

January 2012 Estimate	February 2012 Estimate	March 2012 Estimate	April 2012 Estimate	May 2012 Estimate	June 2012 Estimate
0.14	0.14	0.14	0.14	0.14	0.14
1.04	1.04	1.04	1.04	1.04	1.04
1.18	1.18	1.18	1.18	1.18	1.18
476,707	434,674	434,169	397,180	396,382	429,451
\$ 653	\$ 595	\$ 594	\$ 544	\$ 543	\$ 588
\$ 4,976	\$ 4,537	\$ 4,532	\$ 4,146	\$ 4,138	\$ 4,483
\$ 5,629	\$ 5,133	\$ 5,127	\$ 4,690	\$ 4,680	\$ 5,071
\$ 5,629	\$ 10,762	\$ 15,888	\$ 20,578	\$ 25,259	\$ 30,330
\$ 15	\$ 29	\$ 43	\$ 56	\$ 68	\$ 82

Amounts shown above may not add due to rounding.

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

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Energy Service Cost

July 2012 Estimate	August 2012 Estimate	September 2012 Estimate	October 2012 Estimate	November 2012 Estimate	December 2012 Estimate	Total
0.14	0.14	0.14	0.14	0.14	0.14	0.14
1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.18	1.18	1.18	1.18	1.18	1.18	1.18
493,997	472,803	413,157	408,160	415,056	459,216	5,230,952
\$ 692	\$ 662	\$ 578	\$ 571	\$ 581	\$ 643	\$ 7,323
\$ 5,138	\$ 4,917	\$ 4,297	\$ 4,245	\$ 4,317	\$ 4,776	\$ 54,402
\$ 5,829	\$ 5,579	\$ 4,875	\$ 4,816	\$ 4,898	\$ 5,419	\$ 61,725
\$ 36,138	\$ 41,717	\$ 46,592	\$ 51,409	\$ 56,306	\$ 61,725	
\$ 98	\$ 113	\$ 126	\$ 139	\$ 152	\$ 167	\$ 1,090

Amounts shown above may not add due to rounding.